



Richmond Metropolitan Transportation Authority  
ETC-2021  
ELECTRONIC TOLL COLLECTION SYSTEM SERVICES

#	Section	Question	Answer
1	3.5.2	Will the TSI be responsible for paying for the commissioning of the readers after the new system is installed?	Yes. TSI is responsible for all commissioning activities. Those activities include 3 separate commissioning tests for EZPass, 6C and SeGo. Order to be determined at a later date.
2	3.5.3 REQ-47	What is the use case is for the "4 overview images"? What are the 4 images to be used for? Are they to be sent to the CSC for violation processing?	VDOT requires an ROI and 4 overview images. All images are sent to the CSC for transaction processing.
3	3.5.6 REQ-69	How are the DVAS cameras supposed to be associated with camera triggering and supplemental lighting?	DVAS cameras are not to be associated with VES camera triggering or lighting. See Addendum 2 Section 4.e.
4	3.5.6 REQ-69	Is this to say that you want the DVAS cameras pointed to where the LPR cameras are capturing the rear plate of the vehicles, and where there is enough light from the LPR system so that the DVAS camera can also see the vehicle at night?	DVAS cameras are not to be associated with VES camera triggering or lighting. See Addendum 2 Section 4.e.
5	1.3	Will the potential future AET software system be going out for bid?	RMTA is seeking a firm fixed price for a turn-key solution including both hardware and software.
6	1.3	Will AET conversion be a change order for the TSI under the new ORT contract associated with the ETCS RFP issues on August 30, 2021?	At RMTA's sole discretion, the AET will awarded as a change order under this procurement in accordance with the selected firm's fixed price proposal.
7	1.3	Is a cost estimation of the AET conversion system supposed to be included in our bid for the ORT system?	Refer to Schedule C of the Price Proposal
8	1.3	Will the RMTA be purchasing the AVI equipment, or any other equipment, besides new gantries, required for the AET Conversion project?	The TSI will be responsible for the design, development, installation, testing, commissioning and maintaining the AET ETCS.
9	1.3	How many pages or how much detail is the RMTA looking for in regard to the following request above: "provide information on the design, development, installation, testing, commissioning, and maintenance of the AET ETCS"? Is this all to be addressed in the technical response based on the guide provided?	Refer to Section 3.13 of Appendix C. Technical Response Guide
10	REQ-45	Should the date and time of the buffered transactions be set to the date and time the buffered read was processed (recovered from the reader) or the date and time that the tag was actually read, which potentially could be hours or days in the past?	Buffered transactions need to be set at the date and time the tag was actually read.
11	REQ-47 REQ-48	Are the 4 captured overview images supposed to be transmitted to the back-end systems for manual review, or are they only supposed to be used locally at the VES level for automatic selection of the single best overview image?	VDOT requires an ROI and 4 overview images
12	3.5.3 REQ-43	Will the existing gantries be able to accommodate the Kapsch's design for equipment install, and if not, who is responsible for engineering and modification of the gantries to accommodate them?	Existing gantries are anticipated to accommodate Kapsch's equipment design provided all the antennas are mounted as close to gantry's centerline as possible. See Addendum 2 Section 3.a.
13	REQ-89	Please describe RMTA's transaction audit process.	Refer to RFP Section 3.3.6.1 - RMTA will use the screens, GUIs, and reports described here for auditing.
14	REQ-93	To clarify this requirement, does it specifically and only apply to successfully backed-up/archived data? If not, please explain what is desired.	Refer to RFP Section 3.6.6.4 Data Backup and Recovery
15	REQ-129	Please describe what is meant by "log and report the receipt and processing of all such Transaction Records." Can this be done through standard reporting?	Yes
16	3.6.3.1 REQ-136	This document states SFTP will be used. VDOT Change documents state FTPS. Have the requirements changed or is this a mistake?	FTPS is the correct protocol. See Addendum 2 Section 4.g.
17	2.13	Where should the list of ORT/AET projects be described in the technical proposal?	Refer to RFP Section 2.16.1.d
18	2.16.2	Appendix C General Instructions imply that the TRG must be supplied as a separate file. Is it expected that the TRG is included in the Technical Proposal file, or submitted as a separate file on the company's SharePoint site?	The TRG may either be included in the Technical Proposal file or as a separate uploaded document.
19	3.6.1 REQ-111	What payments are expected to be captured at the TFH?	No payments are expected to be captured by the TFH



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20	3.3.3	Does RMTA have a secure location to stage a drop shipped trailer or container for deliverable equipment prior to installation of dedicated locations of ORT equipment?	RMTA can provide storage for drop shipped trailers or containers. Security measures are the responsibility of the TSI.
21	3.3.3	Is the RMTA disposing of the legacy equipment that will be removed from the ORT locations or is it the TSI responsibility?	RMTA will dispose of legacy equipment.
22	3.3.3	Does RMTA have a location to dispose of installation and demolishing debris or a location for the TSI to place a container from a local resource and recovery agency for proper handling and disposal of any and all debris?	The TSI should provide a container for disposal. RMTA will provide a location for the container. The TSI will be responsible for emptying contents of container.
23	Appendix G	Should the existing gantry frames be analyzed in accordance to the most current building code (2018 Edition of the International Building Code and the 2018 Edition of the Virginia Construction Code)? If not, please provide the current building code that we are required to analyze the structure.	The TSI Engineer of Record can determine which version of the building code the existing gantry structures should be analyzed under.
24	Appendix G	The existing gantry frames were constructed under a previous building code that most likely does not meet current code requirements regarding wind loading and perhaps ice thickness that can be applied to the structure. How are we to proceed if the existing gantry frames do not make current code requirements with regards to current code requirements?	Appendix G should be completed as instructed with the following statement "suggests the changes to the Infrastructure detailed on the attached pages" and Proposer is to include all suggested changes.
25	Appendix G	Are there inspection requirements (structural special inspections) for the installation of the additional steel framing to the gantry frames? Will there be welding, bolting inspections, etc.? If so, is there an inspection schedule or meeting schedule RTMA will require?	The TSI Engineer of Record is responsible for the interpretation, design to and inspecting to required standards. RMTA reserves the right to inspect all work independently.
26	Appendix G	Besides submitting the structural calculations and structural drawings showing the modifications to all three (3) gantry cranes, are there additional submittals required? Is there an interim submittal required by RTMA? Are there review meetings with RTMA required during the design/construction process? If so, how many?	All submittals require a review by RMTA and are subject to approval. RMTA may require review meetings for submittals if necessary. Refer to Appendix J.
27	REQ-16	Can the Ambient air temperature upper rating of 140 degrees Fahrenheit be lowered to 122 Fahrenheit for the ALPR cameras?	Ambient air temperature upper rating may be lowered to 122 Fahrenheit. See Addendum 2 Section 4.c.
28	2.15, 2.16.2, 2.20, and Appendix C	The contents of the Technical Proposal do not appear to require a response to the RFP Section 2.15 – Proposer Responsibility. Further, Appendix C also does not have any place to include this response. Please clarify in which part of the proposal should the bidders include it? - Technical Proposal? Price Proposal? or a separate file?  If it is to be included in Appendix C, please confirm that this information is excluded from the 100-page limit.	Items included in Proposer Responsibility should be included in the Technical Proposal. This information is excluded from the 100-page limit.
29	3.10.8	In Section 3.10.8, the RFP says that the System Acceptance Test will be conducted over a period of 60 consecutive days. However, in Appendix A (Glossary) on page 97 the RFP says that the System Acceptance Test will be over a period of 30 consecutive days. There appears to be a contradiction.  Please confirm if the requirement is for 60 days or 30 days.	The requirement is 60 days. See Addendum 2 Section 4.h.



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30	3.2.3	In system security requirements, there is a reference to SSAE-18 (for auditing) as well as the requirements in REQ 3 thru 13 in Table 5. REQ-8 specifies: "The System shall comply with the Commonwealth of Virginia security requirements" and references the website. The information provided by the Commonwealth on the website serves more as guidance and doesn't specify "project specific" security requirements. Please provide further details as to the specific security requirements for this project.	Specific security requirements are identified in RFP Section 3.2.3
31	RFP 1.8, Appendix B, Section 6.15, and Performance Surety Form in Appendix H	The referenced clauses do not mention the amount of the Performance Surety either in dollars or as a percentage. Please provide the requested information to facilitate arriving at a more accurate pricing estimate.	Performance Sureties should be in the amount of either installation or maintenance work.
32	2.16.1, item 5	Can the proposers use smaller but still readable font for graphics, tables, headers and footers and pre-printed material like financial reports?	11-point font is the minimum font size accepted
33	Appendix G	Please confirm if the Appendix G – ORT Pavement and Gantry Statement, is required to be submitted with the proposal and if yes, in which volume – technical, price or as a separate volume?	Appendix G. should be included with the Technical Proposal. See Addendum 2 Section 4.a.
34	SWaM-DBE Participation Form	The bottom-most item in this form is 'Amount Paid'. Please clarify what is required to be entered here.	Amount paid refers to the amount paid when the project ends. Proposers are not required to provide amount paid but names of firms anticipated to be used.
35	Appendix J	Appendix J lists out the due date for documentation deliverables, however, it does not provide an actual planned Go Live Date. Please provide the planned Go Live date that the proposers should use in the project schedule.	Proposers should base the project schedule on anticipated Notice to Proceed date.
36	3.5.6	Does RMTA have a DVAS solution in place today and where are the cameras located in the ORT zones?	RMTA currently has a DVAS solution. Vendors should have located the cameras during the site visit.
37	3.1.1	Please confirm that there is sufficient network capacity between the Powhite South and Powhite North gantries that can be used by the TSI.	Yes
38	3.13	Please provide estimated volumes for the AET lanes that are to be converted.	RMTA recommends max capacity of 2,200 vehicles per lane per hour.
39	2.16.2, Item 2	This clause requires the TSI to upload the price proposal to the separate Price Proposal folder. The SharePoint site assigned to the TSI does not seem to contain any such folder. Please clarify if this folder will be created by RMTA or are the TSIs expected to create such a folder in the assigned SharePoint site and upload all pricing documents there?	Technical Proposal and Price Proposal folders have been created in each Proposer's SharePoint site.
40	2.12	We understand that the purpose of these minimum requirements is to ensure that the TSI has sufficient experience to install and maintain these types of systems. Please confirm that RMTA will accept projects by the TSI that meet these criteria but have since transitioned to a different provider.	Projects listed under the ORT or AET experience that have been transitioned will be accepted; however, maintenance experience requires currently active contracts.
41	2.12	Please confirm that an equipped shoulder lane will count as an adjacent travel lane.	Equipped shoulders are not counted as travel lanes.
42	Schedule	Please provide an expected Implementation Time Period.	Proposers should provide an Implementation Time Period according to Section 3.7.1 of the Technical Response Guide
43	General	Please confirm that no equipment is to be installed on shoulders less than 2' wide.	The TSI is responsible for equipping all shoulders for full performance operation
44	Appendix D – Price Proposal	Please confirm that the hourly rates provided on Appendix D Price Proposal Schedule D – Change Order Rates are: 1) to reflect 2022 values, and 2) will be adjusted each RMTA fiscal year (July 1) for the Federal CPI index for the Richmond area.	Yes



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45	Appendix B sec.6.15	<p>It says the first bond (attachment E1) should be in force during initial term or full completion of the project. Then it says that “at such time”, upon delivery of bond E2 to be in effect during maintenance work, E1 bond will be returned to the contractor.</p> <p>Note that initial term is 6 years including implementation, warranty, and maintenance. And Project is base work + maintenance work.</p> <p>Please confirm that E1 will be returned with the beginning of maintenance work and the issuance of E2.</p>	Confirmed.
46	Table 1 / Appendix J	In the column labeled “Due Dates” should we assume Business Days?	Yes. Due dates are calculated in Business Days
47	Section 3.11.1 Appendix B / Contract	<p>There appears to be a contradiction about the start of warranty.</p> <p>1. Section 3.11.1 states: “Warranty shall commence at Go Live”; while</p> <p>2. Appendix B / Contract states: “a one-year Warranty Phase to commence upon Project Acceptance.”</p> <p>Please clarify the start of the warranty period.</p>	Warranty shall commence at Go-Live
48	RFP 1.7 & Appendix B, Clause 5	Please clarify if the initial term is 6 years from the date of signature or 6 years from the System Acceptance Test.	This Contract shall begin on the Effective Date and shall continue until successful completion of the System Acceptance Test and for an initial period of six (6) years from such successful completion (the “Initial Term”).
49	RFP Clause 2.16.2 Submitting the Response and Appendix C, Section 1.1 General Instructions	The main RFP in Clause 2.16.2 requires the submission of two separate files – technical and price proposal. However, the general instructions in Section 1.1 of the Appendix C direct submission of the TRG and its attachments as a separate file. Please confirm that the Technical Proposal is to be submitted as two separate files – one PDF file named ‘Company_Technical Proposal’ containing all the items from ‘a.’ to ‘f’ except item ‘e’ on RFP page 13 and a separate PDF file named ‘Company_Technical Response Guide’ containing response to Appendix C and its associated attachments.	The TRG may either be included in the Technical Proposal file or as a separate uploaded document.
50	RFP Clause 2.16.2 Submitting the Response	Please provide the limit on the size of the proposal files that can be uploaded to RMTA SharePoint?	100 GB total file size
51	2.2	The language provided allows proposers to submit exceptions to the Terms and Conditions shown in Appendix B. Is there any specific form to use in this regard?	Comments should be submitted in the form of markups within the Appendix B. document
52	2.14	Considering that Proposer is not a certified Swam-DBE, is it still required to submit the form along with the Proposal? If so what are we required to fill in?	If a Vendor is not including SWaM participation, submit the form with "N/A" notated on the Firm Name line.
53	2.14	How can proposers, at the stage of the proposal’s submission, fill in the “actual amounts paid” to DBE entities during the course of the Main Contract?	Actual amounts are not required until the project closeout process. See question #34.
54	6.8 of Contract	Can RMTA consider a higher percentage, such as 50 %? Please see Section 8.1 of the draft Contract.	No; however, the TSI may submit an exception to the Contract.
55	6.15 of Contract	Considering that Proposer is required to present a Performance/ Warranty Bond is it still required to submit a “Letter of Credit”? Isn’t it a double exposure for Proposer? Please kindly clarify.	The Proposer is required to submit either a Performance/Warranty Bond or Letter of Credit.



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56	7.14 of Contract	Even if RMTA is in material default is Contractor required to perform services without being paid? Kindly clarify language.	The term “material default” as set forth in the proposed question is a legal term which calls for a legal conclusion. Section 7.14 prohibits Contractor from withholding or disrupting goods or Project Services due to non-payment by RMTA. TSI may submit an exception to the Contract.
57	12.4 of Contract	This should not include those cases where equipment is under RMTA’s control, even if before Final Acceptance. Please kindly clarify.	In accordance with Section 12.4 of the Contract, the risk of loss remains with the Contractor through System Acceptance as set forth in Section 12.1.
58	17.1 of Contract	Please confirm that the amount of LDs to be asserted are those mentioned in Section 108.06(b) of the VDOT’s 2020 Road and Bridge Specifications ( <a href="https://www.virginiadot.org/business/resources/const/VDOT_2020_RB_Specs.pdf">https://www.virginiadot.org/business/resources/const/VDOT_2020_RB_Specs.pdf</a> )	Yes; however, the TSI may submit an exception to the Contract.
59	General	Can the Authority provide images of the inside of the lane cabinets? Also, can a spec sheet be provided or a detailed inside and outside dimension specification?	No images or spec sheets will be provided.
60	General	Please clarify the location of the cabinet where the AVI reader equipment is installed for the three sites, Powhite Parkway (NB and SB) and Downtown Expressway.	Existing AVI reader equipment is located in the large roadside cabinet in each zone.
61	3.5.2 and 4.3 AC3AVI	Considering that the TSI is responsible for the AVI KPIs and RMTA will be the one responsible for the Equipment Installation design and configuration specifications, will the TSI be able to provide inputs during this process?	Firms wishing to provide such input should call this out in their technical proposal and detail the type(s) of input envisioned with enough detail for RMTA to factor the resulting benefits and/or risks into their evaluation.
62	3.5.5	Can the Authority provide the existing UPS power capacity available at each one of the three sites?	See response to question #101
63	3.5.5	Also, if the UPS units do not have sufficient power capacity for the new TSI equipment, who is responsible to upgrade the UPS power capability – TSI or RMTA?	TSI
64	3.13	For the Powhite Parkway AET Toll Zone, will the TSI be responsible for supplying the UPS?	Yes
65	REQ-54	Please clarify if white light camera illumination for rear color cameras is acceptable.	Yes it is acceptable for rear camera only
66	General	Can the Authority provide guidance on reuse of existing infrastructure components – gantry mounted cabinets, conduits on the gantry, JB’s on and around the gantries, cabinets in the tunnels, loops?	The TSI is responsible for warranty, maintenance, and performance of reused equipment. Loops and loop lead-in wiring may not be reused. All reused equipment must meet appropriate SLAs.
67	3.5.4 AVDCS	Can loops be reused? If so, can the Authority provide current loops’ specifications, manufacturer, wire gauge, number of wires, turns per foot, length of lead ins, as well as electrical specifications?	Loops and loop lead-in wiring cannot be reused.
68	General	Can the Authority provide the detailed vehicle classification scheme? Are motorcycles included in two-axle vehicles?	Vehicles are classified based on axle counts: 2, 3, 4, 5+. Motorcycles are included in two-axle vehicles.
69	Appendix E, 2	There is an Item #3. Which has no text – is this intentional?	Item #3 was left unintentionally blank.
70	General	The Deliverables appears to be the only milestones provided. Does the Authority have a proposed implementation schedule for Go-Live and other intermediate activities such as FAT, Installation, etc.?	Proposers should provide estimated implementation schedules in the draft Project Schedule
71	3.1.1 REQ-164	Is the intention to have an independent data communication network between (3) plazas or to utilize the existing RMTA Communication network?	The RMTA requires that the two ORT zones at the Powhite communicate directly with the VDOT CSC as a combined single entity (one example would be a plaza server at the Powhite South Administration Building). The RMTA requires, as a standalone installation completely independent of the Powhite installation, the DTE ORT Zone to a) process, store, and backup/archive all its own data and images and b) provide all its own communications directly with the VDOT CSC .
72	3.5.5 REQ-168	RMTA has existing UPS infrastructure including generators. How is TSI to monitor the RMTA equipment to meet REQ-168?	RMTA expects the TSI to work with RMTA to determine the best available means of monitoring the UPS. RMTA plans on using TCPIP for this communication.



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73	REQ-16	1.Can requirement point #2 be changed to read: Relative Humidity: 5 to 100 percent, or European standard maximum of 95 percent non-condensing, according to DIN EN 60068-2-61, method 1?	No.
74	REQ-16	2.Can the Ambient air temperature upper rating of 140 degrees Fahrenheit be lowered to 122 Fahrenheit for the ALPR cameras?	Ambient air temperature upper rating may be lowered to 122 Fahrenheit. See Addendum 2 Section 4.c.
75	1.5 Schedule of Events	Would RTMA consider updating the schedule to include a second round of questions based on the responses received?	RMTA does not anticipate allowing for a second round of questions at this time.
76	1.5 Schedule of Events	Would RTMA consider a six-week extension of the proposal deadline?	Proposals are due October 25, 2021.
77	2.15 Litigation History	According to the evaluation criteria, response to Litigation History is required, but it is not included in the submission instructions. Would RTMA please specify where in the bid this belongs and if there is page limitation?	Items included in Proposer Responsibility should be included in the Technical Proposal. This information is excluded from the 100-page limit.
78	2.16.1 Preparing and Response, #5	The RFP instructs vendors to use 11-point font. May vendors use a smaller, but still legible, font for headers/footers/tables/graphics?	11-point font is the minimum font size accepted
79	2.16.2 Submitting the Response, D.	The Submission Instructions for "Statement and References of Minimum Qualifications" point to a response to RFP 2.12. The evaluation criteria lists a response to section 2.13 as well. Should vendors also include a response to section 2.13 here? If so, does that change the page allocations?	References as stated in Section 2.13 should be included in the existing 10-page limit
80	3.2 General Requirements, Bullet 2	"Obtaining necessary permits and licenses and payment of fees as required by local, state, and federal law. "Additional information: Section 3.5.2 states TSI is responsible for reviewing required licenses. Question: Does Section 3.2 include procurement of any needed AVI licenses?"	Yes
81	3.3.2.1 Electrical Work Requirements	"All required electrical work will be performed by electricians licensed in the Commonwealth of Virginia and shall be performed in accordance with all applicable regulations. Appropriate NEC compliance shall be adhered to with all electrical articles for installation pertaining to wiring, enclosures, and other electrical equipment, including lightning protection." Question: Does this include low voltage component DC wiring?	No. This does not include 48 volts or less.
82	3.11.1 General Requirements (Maintenance)	Is the space available to house spare parts limited to the one Powhite plaza (noted during the mandatory site visit) building tunnel room currently used for technician work and parts storage or will each plaza have comparable storage made available by RMTA.?	RMTA provides multiple locations for housing spare parts.
83	3.11.1 General Requirements (Maintenance)	If during the installation phase, additional material storage space is required for staging leading up to installation beyond that which was noted during the mandatory site visit, could space for a temporary storage container be allocated on-site at one or more of the three plazas?	RMTA can provide space for TSI-provided temporary storage containers. Security measures are the responsibility of the TSI.



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84	Contract, Section 6.15. Surety or Other Performance Guarantees	Is the amount of the Base Work Phase Performance & Payment Bond the "Total: Implementation" amount shown in Schedule A of the pricing tables?	Yes
85	Contract, Section 6.15. Surety or Other Performance Guarantees	Is the amount of the Maintenance Phase Performance & Payment Bond the amount of the ORT Maintenance for all 6-years in Schedule B of the pricing tables?	Yes
86	Contract, Section 6.15. Surety or Other Performance Guarantees	Are both a Performance Bond and a Letter of Credit required at contract signing?	Either a Performance Bond or Letter of Credit is required.
87	Contract, Section 6.15. Surety or Other Performance Guarantees	What is the amount of the Base Work Phase LoC and Maintenance Phase LoC?	The amount should be equal to the Proposer's bid price.
88	Contract, Section 6.15. Surety or Other Performance Guarantees	No payment milestones with payment amounts/percentages seem to be clearly defined in the RFP documents. Will RMTA be providing a Payment Schedule in a future Addendum?	Payment milestones are located in Schedule A of the Price Proposal
89	Contract, Section 6.15. Surety or Other Performance Guarantees	Will RMTA be providing MOT services (Lane Closures) for both the System Integration Phase and the System Maintenance Phase at no cost to the TSI?	RMTA will provide all MOT for the Project at no cost to the TSI. See RFP Section 3.2.4.
90	Exhibit G - Price Proposal Forms	Is RMTA Tax Exempt? And if Yes, should bidders Exclude All Taxes (State, Federal, Local, etc.) from their pricing?	RMTA is tax exempt and the TSI should exclude all taxes.
91	Exhibit G - Price Proposal Forms	Do proposers need to include the costs of Tolls in their monthly maintenance pricing or will the successful bidder be provided "non-revenue" transponders for their maintenance vehicles?	RMTA will provide non-revenue toll pass card for maintenance vehicles.
92	Exhibit G - Price Proposal Forms	Should bidders include the costs for any Recurring SW/HW Support Licenses/Agreements in their System Warranty/Maintenance cost/pricing if needed?	Yes





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93	Exhibit G - Price Proposal Forms	<p>Would the Authority please make the following corrections to the pricing tables, sheet/tab "Price Summary" in the "AET Option" section:</p> <p>In cell S7 (Item 2. Subtotal: Testing), please change the formula to pick-up the total in cell G16 of the "Sched C AET Option" tab.</p> <p>In cell S8 (Item 3. Subtotal: Hardware), please change the formula to pick-up the total in cell G49 of the "Sched C AET Option" tab.</p> <p>In cell S9 (Item 4. Subtotal: Initial Spare Equipment Inventory), please change the formula to pick-up the total in cell G83 of the "Sched C AET Option" tab.</p> <p>In cell S10 (Item 5. Subtotal: Software), please change the formula to pick-up the total in cell G87 of the "Sched C AET Option" tab.</p> <p>In cell S11 (Item 6. Subtotal: Warranty), please change the formula to pick-up the total in cell G96 of the "Sched C AET Option" tab.</p>	See Addendum 2 Section 3.b.
94	3.1.1	What is the existing network equipment in use at all three ORT locations?	<p>Cisco Catalyst 2960-X series switches. Also:</p> <ul style="list-style-type: none"> <li>- See response to question #71, and</li> <li>- The RMTA is seeking a system with minimum customization and firms must state all assumptions, suggestions, or requirements for RMTA-provided network equipment, network bandwidth requirements, or other network attributes in their technical proposal.</li> </ul>
95	3.1.1	Is there is an existing network diagram for the ORT locations and the current TFH?	No
96	3.1.1	How do the ORT zones connect to the TFH currently, is it through dedicated fiber optic backbone or via a 3rd party supplier?	Via Category 5 cabling at the Powhite and dedicated fiber at the DTE. See response to question #71 and question #94.
97	3.1.1	What location does the TFH firewall resides in that connects to the VDOT CSC?	See response to question #71
98	3.1.1	Is the TFH firewall redundant and if so where is the secondary location?	No, see response to question #71.
99	3.1.1	What is the current transmission capacity today between the TFH and the VDOT CSC, T1 or other?	The speed is T1 or better
100	5.5.5 REQ-66	What are the current Generator model numbers at the ORT locations and how do they currently integrate in the system function to monitor status in the event of a power failure?	The UPS will communicate all power status.





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101	3.5.5	What is the type, model number and age of the UPS at the current ORT locations?	<p>DTE UPS: existing UPS power capacity available – 16KW / 20KVA – 3-phase type, model number and age of the UPS at the current ORT locations – Liebert 3-phase, model number NXb20, manufacturer date is 12/06 UPS communicate to the toll system, via TCPIP or other means? – yes</p> <p>Powwhite North UPS: existing UPS power capacity available – 24KW / 30KVA – 3-phase type, model number and age of the UPS at the current ORT locations – Liebert 3-phase, model number NX, manufacturer date is 12/04 UPS communicate to the toll system, via TCPIP or other means? – yes</p> <p>Powwhite South UPS: existing UPS power capacity available – 24KW / 30KVA – 3-phase type, model number and age of the UPS at the current ORT locations – Liebert 3-phase, model number NXb30, manufacturer date is 12/06 UPS communicate to the toll system, via TCPIP or other means? – yes</p>
102	3.5.5	How do these UPS communicate to the toll system, via TCPIP or other means?	RMTA expects the TSI to work with RMTA to determine the best available means of monitoring the UPS. RMTA plans to use TCPIP for this communication.
103	3.5.2 AVI (RFID) Subsystem	Does the TSI provide the RFI cable connectors from the AVI antenna to the AVI reader or is that provided by the RMTA?	While the Authority will purchase the AVI system consisting of the readers and lane kits, the Contractor/Integrator will be responsible for all other ancillary AVI equipment including RF Antenna cable, installation supplies and grounding and lightning protection
104	General	"In Section d. of 2.16.2 you ask the proposer for "Statement and References of Minimum Qualifications per Section 2.12." However, the only specific deliverable mentioned in Section 2.12 instructs Proposers to "identify the following Key Staff: Project Manager, Quality Manager, and Maintenance Manager." Should the proposer include the reference deliverables requested in 2.13 within Section d. of 2.16.2 for references?	Minimum qualifications should be included as a "Statement of Minimum Qualifications" as listed in 2.16.2.1.d. References required under 2.13 should be submitted in 2.16.2.1.d as well.
105	Appendix D - Price Proposal	Tabs "Sched A Implementation" and "Sched C AET Option" have line items that are not shaded green but appears to require input (lines P3, P4, P5, P6, P7 and Lines P4, P5, P6, and P7, respectively). Please clarify what data, if any, needs to be provided for these unshaded line items.	Mobilization and System Documentation should be broken into document packages listed in the subsequent lines; however, individual document package pricing is not included in the total.




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#	Section	Question	Answer
106	Appendix D - Price Proposal	<p>The formulas in this column are pulling from the incorrect cells in the "Sched C AET Option" tab as follows:</p> <p>2. Subtotal: Testing - should pull data from "Sched C AET Option" cell G16 instead of G22</p> <p>3. Subtotal: Testing - should pull data from "Sched C AET Option" cell G49 instead of G57.</p> <p>4. Subtotal: Initial Spare Equipment Inventory - should pull data from "Sched C AET Option" cell G83 instead of G93.</p> <p>5. Subtotal: Software - should pull data from "Sched C AET Option" cell G87 instead of G109.</p> <p>6. Subtotal: Warranty - should pull data from "Sched C AET Option" cell G96 instead of G118.</p> <p>Please identify if the RMTA will issue a revised Pricing Document or should the vendor revise the Pricing Document.</p>	See Addendum 2 Section 3.b.
107	Appendix D - Price Proposal	The quantity for the P1 line item is shown as 12 months and the cell is not shaded. Please identify if this duration can be modified.	The 12-month duration should not be modified.
108	3.13.5.2 AET FAT	With regards to section 3.13.5.2 AET FAT is the TSI required to include the cost of FAT in the RFP proposal response?	AET FAT pricing should be included in line T1 of Schedule C in the Price Proposal
109	3.13.5.2 AET FAT	Will RMTA be providing and paying for the AVI System equipment and services in order for the TSI to fully conduct the FAT should RMTA determines this is required?	Yes. RMTA will provide the AVI reader and AVI lane kits per the RFP language to support any required testing.
110	3.13.5.2 AET FAT	Will RMTA be responsible for scheduling the AVI Vendor Services to ensure they meet the TSI FAT schedule if required by RMTA?	See Addendum 2 Section 4.d.
111	3.5.2 AVI (RFID) Subsystem	Will RMTA be responsible to schedule and ensure the AVI professional services will meet the TSI Installation schedule timelines for completion?	See Addendum 2 Section 4.d.
112	3.5.2 AVI (RFID) Subsystem	Will RMTA request the AVI Provider review and meet the requirements 42, 43, 44, 45 identified in the RFP?	See Addendum 2 Section 4.d.
113	3.5.2 AVI (RFID) Subsystem	Will RMTA be requesting Spares quantities from the AVI provider to support the project requirements?	Yes
114	3.5.2 AVI (RFID) Subsystem	Will RMTA be procuring extended warranty of the AVI providers systems components?	Yes. RMTA is providing an extended warranty on the AVI readers and lane kits only.
115	3.10.2 TESTING SEQUENCE 3.13.5.2 AET FAT	Can RMTA confirm if the TSI is required to price FAT as there seems to be ambiguity in the requirements identified in the two statements?	AET FAT pricing should be included in line T1 of Schedule C in the Price Proposal. ETCS FAT pricing should be included in line T1 of Schedule A Implementation in the Price Proposal.



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#	Section	Question	Answer
116	ORT Transition plan	<p>What is the gantry mounted device in the picture above, what is its function, and does it need to remain operational during the ORT transition?</p> 	<p>This is a wireless receiver. The RMTA does not expect or anticipate the TSI to reuse it.</p>
117	3.5.2 AVI (RFID) Subsystem	<p>Is the new Kapsch MPR2 Janus reader going to be located in the roadside cabinet?</p>	<p>Location is decided by the TSI</p>
118	3.5.2 AVI (RFID) Subsystem	<p>If the MPR2 reader goes in the ORT 32U roadside cabinet, how much clear RU rack space will be available for the TSI new equipment?</p>	<p>Location is decided by the TSI</p>
119	3.6 Toll Facility Host (TFH) Systems	<p>Access to the server rooms was not provided during the walkthrough. How much clear RU rack space is available in each office server room for the new TFH equipment?</p>	<p>Access to server rooms were provided during the mandatory site visit. RMTA will provide 45 RU rack space at Powhite South and 45 RU at DTE.</p>
120	3.1.2 Electrical Infrastructure	<p>Since we were not allowed to open and inspect the power panels supplying power to the ORT cabinets during the walkthrough, can RMTA provide the breaker ratings for the "two (2) single phase 240v breakers" feeding the ORT cabinet at each location?</p>	<p>At each ORT zone, the RMTA will provide a power feed inside the largest roadside cabinet for: a) climate control, utility outlets, and other "dirty power" via a 120VAC circuit with a 20A breaker, and b) electronics via a 240VAC circuit with a 2-pole 40A breaker (i.e. 40A on each pole)</p>
121	3.1.3 Roadway Infrastructure	<p>As we were not allowed to open and inspect the cabinets or hand-holes connecting the gantry and loop feeds during the walkthrough, and it is unlikely that the stated existing conduits are a complete detail of the conduits in the roadside cabinet base given the application, can RMTA provide the as-built drawings for each site detailing the power &amp; data conduit structure &amp; sizing between the gantry, loops, and roadside cabinet including all associated hand-holes?</p>	<p>No. RMTA does not have reliable information to respond to this request. See response to question #67 regarding loops.</p>
122	3.6 Toll facility Host (TFH) Systems	<p>The TSI was not given access to this area during the mandatory on site visit. Will RMTA provide detailed drawings, pictures, rack space and power availability for the server rooms.</p>	<p>Access to server rooms were provided during the mandatory site visit. RMTA will provide 45 RU rack space at Powhite South Administration Building and 45 RU at DTE Administration Building.</p>
123	3.6 Toll facility Host (TFH) Systems	<p>Does RMTA currently have Monitoring capability built into the UPS /Generator? If so, can they provide the NIC card type for reference. If not, will RMTA be providing the NIC card or interface required for this purpose.</p>	<p>RMTA expects the TSI to work with RMTA to determine the best available means of monitoring the UPS. RMTA plans to use TCPIP for this communication.</p>
124	General	<p>Will RMTA provided sufficient space at the current facilities to support mobile office, connex storage, parking for installation vehicles.</p>	<p>RMTA can provide space for TSI-provided temporary storage. Security measures are the responsibility of the TSI.</p>
125	General	<p>Please identify if RMTA requires an active or passive archive system (including DVAS).</p>	<p>An active archive system is required.</p>
126	3.2.4 Maintenance of Traffic	<p>Please confirm that all MOT for the TSI ORT work will be provided by RMTA during the implementation phases and during the ORT maintenance phases</p>	<p>RMTA will provide all MOT for the Project at no cost to the TSI. See RFP Section 3.2.4.</p>
127	General	<p>We respectfully request a 2-week extension to the proposal submission due date so that answers provided by RMTA to TSI questions can be thoroughly reviewed and accounted for in our response.</p>	<p>Proposals are due October 25, 2021.</p>



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#	Section	Question	Answer
128	Appendix F - Drawings	Will the Authority please provide all conduits including quantity and size at each ORT location running between: a.the roadside enclosure and the gantry b.the roadside enclosure and the tolling facility c.the roadside enclosure and any other locations d.will the entirety of all conduits be available for use by the tolling system e.if any conduits are in use, is the function known f.is there any power wiring going through the tolling roadside enclosure that is not associated with the tolling system	No. RMTA does not have reliable information for this request.
129	Appendix H - Proposal Forms	Will the Authority please clarify the intent of the Terms of Discussion Form? Are the proposers being asked to accept the terms of all related procurement documents, including but not limited to the contract and related attachments?	Contract exceptions may be provided as part of the Technical Proposal. All other exceptions to the procurement process must be stated in the Terms of Discussion Form.
130	3.5.3	There is no ALPR requirements discussed in the RFP. Please respond to the following: 1. Please direct to the relevant sections that describe ALPR Requirements. 2. Provide requirements, details and specifications for sending images to the BOS.	There are no ALPR requirements for this project. The requirements for sending images to the CSC are described in Appendix K. VDOT ICD.
131	3.13	Please confirm the location selected for AET Conversion (provided in Figure 5) is a separate and distinct location as the two Powhite locations identified for ORT replacement.	The AET sites are separate, distinct, and located at least 600 feet away from the existing ORT zones.
132	3.1	Include the following at a minimum: 1. Roadside Systems, devices, equipment, and infrastructure to support existing tolling operations for ORT. This includes three (3) existing ORT Toll Zones, each of which are comprised of three (3) travel lanes and two (2) shoulders, all of which are to be fully instrumented (i.e., five (5) fully instrumented travel lanes in each travel zone), with performance consistent with Project Service Level Agreements (SLAs). Lanes are generally 12' wide with 4' shoulders except Powhite South with one (1) 8' shoulder and one (1) 4' shoulder. All measurements shall be field verified by Proposers during on-site visits and prior to proposal submittal. Site visit shoulder measurements do not match RFP the RFP descriptions, RFP calls for (3) 3+2 lanes, fully instrumented but space indicates (1) 3+2 and (2) 3+1.  Please advise if respondent should provide pricing based on the site visit dimensions or the RFP statements?	Provide pricing based on dimensions measured during mandatory site visit.
133	3.5.3.1 REQ-58	Are there additional requirements for ROI generation other than those stated in requirement 47 and 58?	No
134	3.5.3 REQ-47 Appendix K	The ICD does not specify the method for image delivery nor includes a field for a download link. There is mixed language for capturing 4 images and delivering minimally 1 (+ ROI) but there does not seem to be a requirement for delivery of the monochrome image. Please clarify	All specified images are required. The selected firm should plan on working out details of which images must be transmitted to VDOT via collaborative design meetings after contract award. The details of which images must be transmitted to VDOT are subject to change with AET and a subsequent round of collaborative design meetings should be included in each firms AET pricing.
135	3.5.4 REQ-64	Measurement of 2' @ 30mph is considered unsafe for testing and not applicable to real-world conditions where 2' to 3' separation occurs at 5 and 10 mph. Will RMTA revise this requirement for applicability and safety?	No



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#	Section	Question	Answer
136	2.14 SWaM	Could the RMTA recommend NIGP codes for electrical installation? Does the RMTA have electrical DBE/Swam contractors they have good relationships with whose information could be provided? Do subcontractors identified as DBE/SWAM have to have certifications in Virginia?	RMTA cannot recommend NIGP codes. RMTA cannot recommend a contractor. Subcontractors identified as DBE/SWaM need to be certified in Virginia.