

Addendum No. 3

November 3, 2017

Roadside Toll Collection System (RTCS) Request for Proposals (RFP)

Triangle Expressway and Complete 540

Prospective Respondents: You are hereby notified of the following information in regard to the referenced RFP:

- Section A - Official log of Proposers' questions and NCTA's responses
- Section B - Official revisions to the RTCS RFP

All other terms, conditions and requirements of the original RFP dated October 10, 2017 remain unchanged unless modified by this addendum, or previous addenda to this RFP.

Note that all changes to requirements are reflected as redlines to Section III Scope of Work and Requirements and also apply to Exhibit D-6, Requirements Conformance Matrix. The Requirements Conformance Matrix will be updated once all questions have been received.

A. QUESTIONS AND ANSWERS

Following are the answers to questions submitted in response to the above referenced RFP between Addendum 2 (issued October 23, 2017) and November 1, 2017. All of the questions have been listed in the order received by the North Carolina Turnpike Authority (NCTA).

Proposer Questions			North Carolina Turnpike Authority (NCTA)		
#	Page	Section	Section Description	Proposer Question	NCTA Response
I.	N/A			In the RTCS RFP for Monroe Expressway / US-74, the requirement for error rate for the Image Review system was listed as 0.05% (or 99.95% accuracy). Is it the intent of NCTA to have the same requirement in the current RFP for Triangle Expressway / C540?	Please see RFP Section III, Sections 6.6.7 and 6.6.8, as well as Section 8.1.1, Table 5 for the performance requirement.

B. REVISIONS (Deletions are shown in red text strikeout mode and additions are in red text and underlined)

1. Section I, Table of Contents, page i of ii (2 of 316 in original RFP PDF file) has been revised as follows:

Attachment 1 – Future Project Transactions

Attachment 2 – NCTA TriEx ORT Lanes “As-Built” Drawings

Attachment 2A – NCTA TriEx AVI Retrofit “As-Built” Drawings

Attachment 3 – NCTA TriEx – Veridea Installation Drawings

Attachment 4A – NCTA TriEx Existing Inventory

Attachment 4B – NCTA TriEx ITS Inventory – Equipment Refresh

Attachment 4C – NCTA New ITS Installations for Complete 540 and Morrisville Parkway Interchange

Attachment 5 – NCTA TriEx & C540 ITS Summary

Attachment 6 – NCDOT Roadway Standard Drawing I725.01

Attachment 7 – State of North Carolina, Statewide Information Security Manual

Attachment 8 – NCTA CSC Back Office System RTCS File Exchanges – ICD (DRAFT)

Attachment 9 – NC License Plate Guidebook (Updated 03-24-14)

Attachment 10 – Responsibility Matrix

Attachment 11 – AET Standard Drawings

Attachment 12 – Communications Schematic

Attachment 13 – C540 ITS and AET Concept Plans

Attachment 14 – Statewide Traffic Operations Center (STOC) Floor Plan

Attachment 15 – Toll Facilities Maintenance Scope of Work

Attachment 16 – Lane Closure Restrictions

Attachment 17 – TriEx As-Built ITS Design Plans

Attachment 18 – ITS Technical Requirements

2. Section I, Section 2.1 Schedule, page 6 of 19 (13 of 316 in original RFP PDF file) has been revised as follows:

Table I-1 Procurement Schedule

Event or Due Date	Date
RFP Issued	October 10, 2017
Mandatory Pre-Proposal Scope of Services Meeting Mandatory Triangle Expressway Site Visit	October 24, 2017 (2:00 p.m. to 4:00 p.m. EDT) October 25, 2017 (8:00 a.m. to 12:00 p.m. EDT)
Proposer Questions Due	November 13, 2017 (4:00 p.m. EDT EST)
NCTA Responses to all Questions Completed	November 28, 2017
Proposals (Technical and Price) Due	December 21, 2017 (4:00 p.m. EDT EST)
Notification of Proposers Shortlisted for Oral Presentations	January 19, 2018
Oral Presentations (Proposers to be notified as to the specific schedule within the time period identified)	Week of February 12, 2018
Ranking of Proposers for Negotiations	February 2018
Award of Contract	April 2018
Notice to Proceed	April 2018

3. Section III, List of Attachments, page vii. of vii. (49 of 316 in original RFP PDF file) has been revised as follows:

Attachment 1 – Future Project Transactions

Attachment 2 – NCTA TriEx ORT Lanes “As-Built” Drawings

[Attachment 2A – NCTA TriEx AVI System Retrofit “As-Built” Drawings](#)

Attachment 3 – NCTA TriEx – Veridea Installation Drawings

Attachment 4A – NCTA TriEx Existing Inventory

[Attachment 4B – NCTA TriEx ITS Inventory & Equipment Refresh](#)

[Attachment 4C – NCTA New ITS Installations for C540 and Morrisville Parkway Interchange](#)

Attachment 5 – NCTA TriEx & C540 ITS Summary

Attachment 6 – NCDOT Roadway Standard Drawing I725.01

Attachment 7 – State of North Carolina, Statewide Information Security Manual

Attachment 8 – NCTA CSC Back Office System RTCS File Exchanges – ICD (DRAFT)

Attachment 9 – NC License Plate Guidebook (Updated 03-24-14)

Attachment 10 – Responsibility Matrix

Attachment 11 – AET Standard Drawings

Attachment 12 – Communications Schematic

Attachment 13 – C540 ITS and AET Concept Plans

Attachment 14 – Statewide Traffic Operations Center (STOC) Floor Plan

Attachment 15 – Toll Facilities Maintenance Scope of Work

Attachment 16 – Lane Closure Restrictions

Attachment 17 – TriEx As-Built ITS Design Plans

[Attachment 18 – NCTA ITS Technical Requirements](#)

4. Section III, Section 1.1.3 General Description of Scope of Work, paragraphs 5 through 8 on pages 5 and 6 of 204 (53 and 54 of 316 in original RFP PDF file) has been revised as follows:

For Triangle Expressway, the Contractor shall plan and implement a transition to the RTCS that does not impact revenue collection and minimizes inconvenience to customers. The existing Triangle Expressway AET Lanes are shown in the as-built drawings contained in **[Attachment 2 – NCTA TriEx ORT Lanes “As-Built” Drawings](#)**, **[Attachment 2A – NCTA TriEx AVI System Retrofit “As-Built” Drawings](#)** and **[Attachment 3 – NCTA TriEx – Veridea Installation Drawings](#)**.

In addition, the NCTA is providing a list of existing equipment and quantities listed in **[Attachment 4A – NCTA TriEx Existing Inventory](#)**. The Contractor shall reuse the existing equipment vault buildings and may reuse the existing computer racks, equipment cabinets, and security cameras. All other existing equipment shall be replaced as listed in **[Attachment 4A](#)** to meet the Requirements of this Scope of Work and Requirements and all Performance Requirements.

For the Complete 540 Project, the Contractor shall coordinate with the NCTA, the Civil Designer, and the Complete 540 Design Build Team (the “Constructor”), for all toll System construction-related activities anticipated for this RTCS Project. The Contractor shall provide toll System Design specifications to the Constructor and shall be required to review the engineering Design and provide feedback and potential impacts of the Toll System and ITS installation and performance early in the Design process.

The Contractor shall procure, furnish, and install ITS components to meet the Requirements of this Scope of Work and Requirements for TriEx (including Morrisville Parkway Interchange) and C540 as described in detail in [Attachment 18 – NCTA ITS Technical Requirements](#). The Contractor shall provide including new Microwave Vehicle Detectors (MVD), closed circuit television (CCTV) cameras, ~~and~~ Roadway Weather Information System (RWIS) sensors, ~~if desired~~ to replace and upgrade existing ITS equipment on the TriEx and shall procure, furnish, and install ITS infrastructure for the C540 as defined in **[Attachment 4B – NCTA TriEx ITS Inventory & Equipment Refresh](#)**, **[Attachment 4C – NCTA New ITS Installations for C540 and Morrisville Parkway Interchange](#)**, and **[Attachment 5 – NCTA TriEx & C540 ITS Summary](#)**. The Contractor

shall be responsible for the Maintenance of all ITS elements and Toll Facilities on both Projects.

5. Section III, Section 1.2.1.1 Maintainability, Requirement 7, d) on page 7 of 204 (56 of 316 in original RFP PDF file) has been revised as follows:

7 d)	all zone controllers shall be Designed such that they are identical and can be configured to operate through the addition of Hardware pluggable modules and setting of appropriate Software parameters at the specific number of lanes at each site as shown in Attachment 2 – NCTA TriEx ORT Lanes “As-Built” Drawings, Attachment 2A – NCTA TriEx AVI System Retrofit “As-Built” Drawings , and Attachment 3 – NCTA TriEx – Veridea Installation Drawings for TriEx and at each of the mainline Toll Zones for C540;
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6. Section III, Section 1.2.5 RTCS Toll Facility and Lane Configurations, Requirement 45 on page 11 of 204 (60 of 316 in original RFP PDF file) has been revised as follows:

45	The RTCS shall support the lane configurations in Attachment 2, Attachment 2A and Attachment 3 and dimensions detailed below for each type of Toll Facility.
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7. Section III, Section 1.2.11.1 Zone Controller Hardware, Requirement 189 on page 28 of 204 (76 of 316 in original RFP PDF file) has been revised as follows:

189	A fully redundant zone controller shall be Designed, procured, furnished, and installed at each of the Toll Zone as identified in Attachment 2, Attachment 2A and Attachment 3. The zone controller shall be Designed in a redundant configuration where there is a single primary zone controller with a “hot standby” secondary zone controller operating in parallel and capable of assuming processing control in the event the primary unit should fail (automatic failover), without requiring human intervention.
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8. Section III, Section 4.2 Installation Plan, Requirement 746, a) on page 90 of 204 (138 of 316 in original RFP PDF file) has been revised as follows:

746 a)	The installation schedule detailing all activities, shifts and resources for the installation of the RTCS and ITS , including third-party, existing system integrator and Constructor activities. Once the baseline schedule is Approved by NCTA, Updates during the installation periods identifying all schedule changes and Work progress in the form of percentage completions shall be submitted to NCTA for Approval.
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9. Section III, Section 4.2 Installation Plan, Requirement 746, c) on page 90 of 204 (138 of 316 in original RFP PDF file) has been revised as follows:

746 c)	How the Contractor manages delivery and staging of the RTCS and ITS Equipment to be installed, including any staging, installation and testing performed at the Contractor or third-party facilities and their subsequent delivery and installation at the production sites.
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10. Section III, Section 4.3.1 Construction Coordination with Infrastructure Contractors, Requirement 755, a) on page 92 of 204 (140 of 316 in original RFP PDF file) has been revised as follows:

755 a)	provide all required Design and installation drawings, operating Requirements and installation specifications to NCTA and the Constructors for all toll <u>and ITS</u> System Equipment provided;
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11. Section III, Section 4.8 Installation Checklist, Requirement 775 on page 96 of 204 (144 of 316 in original RFP PDF file) has been revised as follows:

775	The Contractor shall develop an installation checklist that tracks the progress and completion of all <u>ITS installation activities</u> ; RTCS and RSS installation activities for the RTCS installation; and the primary and secondary RSS facilities installation.
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12. Section III, Section 4.12.3 Installation Design and Drawings, Requirement 813 on page 100 of 204 (148 of 316 in original RFP PDF file) has been revised as follows:

813	The installation Requirements provided by Contractor shall be consistent with those provided in Contractor’s Proposal and shall accommodate the Design provided to support the lane configurations listed in Attachment 2, Attachment 2A, and Attachment 3.
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13. Section III, Section 7.5 Toll Facilities Maintenance, 4th paragraph on page 185 of 204 (233 of 316 in original RFP PDF file) has been revised as follows:

For Triangle Expressway, infrastructure details can be found in Attachment 2: NCTA TriEx ORT Lanes “As-Built” Drawings, Attachment 2A – NCTA TriEx AVI System Retrofit “As-Built” Drawings, and Attachment 3: NCTA TriEx – Veridea Installation Drawings.

14. Section IV, Section 1.2 Content of Proposal, E. Proposal Section 3: Approach to Scope of Work and Requirements page 10 or 19 (264 of 316 in original RFP PDF file) has been revised as follows:

19. Discuss the Proposer’s technical approach to procuring, furnishing, and installing ITS components and Equipment as specified for TriEx, C540, and Morrisville Parkway Interchange in Section III, Scope of Work and Requirements. Provide an explanation of the benefits of the ITS Equipment being proposed and an explanation of the planned timing of the implementation of the ITS retrofit for TriEx and potential impacts/benefits to ITS Operations and Maintenance.

15. Section V, Section 1.11 Contract Documents and Order of Precedence, #4 on page 19 of 39 (296 of 316 original RFP PDF file) has been revised as follows:

4. RFP Section III, Conformed Scope of Work and Requirements, including Attachments I-~~178~~ and Addenda

16. Attachment 2A – NCTA TriEx AVI Retrofit “As Built” Drawings has been added and attached to this Addendum 3.

17. Attachment 4 – NCTA TriEx Existing Inventory has been replaced in its entirety with the following and attached to this Addendum 3:

- Attachment 4A – NCTA TriEx Existing Inventory
- Attachment 4B – NCTA TriEx ITS Inventory – Equipment Refresh
- Attachment 4C – NCTA New ITS Installations for Complete 540 and Morrisville Parkway Interchange

18. Attachment 18 – ITS Technical Requirements has been added and attached to this Addendum 3.

19. Exhibit A Project Implementation Schedule has been revised as follows.

Exhibit A - Project Implementation Schedule		
Major Milestone Description	Projected Start	Projected End
Notice to Proceed	4/16/2018	--
Project Kickoff Meeting	4/30/2018	--
Project Planning Documentation (Project Schedule, Project Management Plan, Master Test Plan)	Apr. 2018	May 2018
System Design (Triangle Expressway (TriEx) and the Complete 540 (C540))		
Requirements Review / Business Rules Workshops	May 2018	Jun. 2018
Reports Design Workshops	Jun. 2018	Jun. 2018
System Detailed Design Review		Jun. 2018
Bill of Materials		Jun. 2018
Third Party Hardware and Software Documentation Submitted		Jun. 2018
Draft System Detailed Design Document (SDDD) Approved		Jul. 2018
Final System Detailed Design Document (SDDD) Submitted		Aug. 2018
RTCS Installation Design and Documentation Package Approved		Aug. 2018
<u>Intelligent Transportation System (ITS) Implementation</u>		
<u>Triangle Expressway ITS Equipment Refresh</u>	<u>Jul. 2018</u>	<u>Dec. 2018</u>
<u>Morrisville Parkway Interchange ITS Implementation</u>	<u>Aug. 2019</u>	<u>Sep. 2019</u>
<u>Complete 540 ITS Implementation</u>	<u>Feb. 2021</u>	<u>Sep. 2022</u>
System Development, Installation and Test (TriEx)		
Software Development	Jul. 2018	Sep. 2018
System Formal Demonstration		Sep. 2018
System HW & SW Procurement	Aug. 2018	Oct. 2018
Factory Acceptance Test (FAT)	Oct. 2018	Oct. 2018
Final Installation Plan Approved		Oct. 2018
Installation of Triangle Expressway - First Plaza	Oct 29, 2018	Nov 16, 2018
Onsite Installation Test (OIT)	Nov. 2018	Dec. 2018
NCTA Back Office Interface Test		Dec. 2018
Installation and Commissioning Test	Dec. 2018	Dec. 2018
Maintenance Plan		Dec. 2018

Exhibit A - Project Implementation Schedule		
Major Milestone Description	Projected Start	Projected End
Training Complete		Dec. 2018
Go-Live – First Plaza		Dec. 2018
Remaining Installations on Triangle Expressway:	Jan. 2019	Jun. 2019
Triangle Expressway - Second Plaza	Jan. 2, 2019	Jan. 18, 2019
→ Installation and Commissioning Test		Jan. 2019
Triangle Expressway - Third Plaza	Jan. 2019	Feb. 2019
→ Installation and Commissioning Test		Feb. 2019
Triangle Expressway - Fourth Plaza	Feb. 2019	Feb. 2019
→ Installation and Commissioning Test		Mar. 2019
Triangle Expressway - Fifth Plaza	Mar. 2019	Mar. 2019
→ Installation and Commissioning Test		Mar. 2019
Triangle Expressway - Sixth Plaza	Mar, 2019	Apr. 2019
→ Installation and Commissioning Test		Apr. 2019
Triangle Expressway - Seventh Plaza	Apr. 2019	May 2019
→ Installation and Commissioning Test		May 2019
Triangle Expressway – Eighth Plaza	May 2019	May 2019
→ Installation and Commissioning Test		May 2019
Triangle Expressway Go-Live Complete		6/15/2019
Installation of Morrisville Parkway and Interchange		
Installation of Morrisville Parkway and Interchange	Aug. 2019	Aug 2019
→ Installation and Commissioning Test		Sep. 2019
Morrisville Parkway and Interchange Go-Live Complete		10/1/2019
Final Testing and Phase Closeout (TriEx)		
Formal Operational and Acceptance Testing	6/15/2019	10/15/2019
As-Built System Detailed Design Document (SDDD) Approved		Oct. 2019
As-Built Drawing Package Approved		Oct. 2019
System Operations / Acceptance (Start of Maintenance Phase for TriEx)		Oct. 2019
System Development, Installation and Test (Complete 540)		
Software Development	Jan. 2020	Mar. 2020
System Formal Demonstration		Apr. 2020
System HW & SW Procurement	May 2020	Oct. 2020
Factory Acceptance Test (FAT)	Nov. 2020	Dec. 2020
Final Installation Plan Approved		Jan. 2021
Installation of Complete 540 - First Toll Location	Feb. 2021	Feb. 2021
Onsite Installation Test (OIT)	Mar. 2021	Mar. 2021
NCTA CSC Back Office Interface Test		Apr. 2021
Installation and Commissioning Tests (Remaining C540 Toll Locations)	Apr. 2021	Sep. 2022
Maintenance Plan		Oct. 2021
Training Complete		Nov. 2021
Complete 540 Go-Live (All Segments)		2022
Final Testing and Phase Closeout (C540)		
Formal Operational and Acceptance Testing	9/1/2022	11/15/2022
As-Built System Detailed Design Document (SDDD) Approved		Oct. 2022
As-Built Drawing Package Approved		Oct. 2022
System Operations / Acceptance (Start of Maintenance Phase for C540)		Nov. 2022

20. Exhibit C Price Proposal Instructions, Section I General Instructions, #4, bullet 12 on page 1 of 19 has been revised as follows:

- [Intelligent Transportation System \(ITS\) Implementation Cost – Sheet 12](#)

21. Exhibit C Price Proposal Instructions, Section 2 Instructions on Completing the Price Proposal Forms, #1 on page 2 of 19 has been revised as follows:

1. There are fifty-~~one-two~~ (5552) Price Proposal Forms, as detailed above, including nine pricing summary sheets (Sheets 1, 2, 3, 4, 5, 6, 7, 8 and 9) and associated Backup information on Backup sheets for each pricing sheet. Backup sheets for each summary sheet are labeled to identify the corresponding summary pricing sheet; for example, Sheet 2-1 is a Backup sheet to pricing Sheet 2. Backup sheets are located following summary sheets 1 through 9. The Estimated Lost Revenue Sheet 10-1 and Additional Services Rates Sheet 11-1 are standalone sheets and do not require summary sheets.
2. Table 1 below summarizes the 54 52 Price Proposal forms that shall be completed by all Proposers. Each form is located on a unique sheet in an Excel workbook. The table provides the following information for each form:

22. Exhibit C Price Proposal Instructions, Section 2 Instructions on Completing the Price Proposal Forms, #2, Table I – Price Proposal Form Summary on page 2 of 19 has been revised as follows:

Table I – Price Proposal Form Summary

Sheet Number	Sheet Title
1	NCTA Triangle Expressway and Complete 540 RTCS Project Summary
2	Roadside System Cost by Roadway
2-1	Backup - Ramp 1: Roadside System Cost Schedule
2-1a	Backup - Ramp 1: Roadside System - Staff and Position Classifications with Rates
2-2	Backup - Ramp 2: Roadside System Cost Schedule
2-2a	Backup - Ramp 2: Roadside System - Staff and Position Classifications with Rates
2-3	Backup - Ramp 3: Roadside System Cost Schedule
2-3a	Backup - Ramp 3: Roadside System - Staff and Position Classifications with Rates
2-4	Backup - AET: Roadside System Cost Schedule
2-4a	Backup - AET: Roadside System - Staff and Position Classifications with Rates
2-5	Backup - Facility Server by Location Cost Schedule
3	Roadway Support System Cost
3-1	Backup - Triangle Expressway: Roadway Support System Cost Schedule
3-1a	Backup - Triangle Expressway: Roadway Support System - Staff and Position Classifications with Rates
3-2	Backup - Complete 540: Roadway Support System Cost Schedule
3-2a	Backup - Complete 540: Roadway Support System - Staff and Position Classifications with Rates
3-3	Backup - Roadside System and Roadway Support System Initial Spare Parts and Equipment Cost
4	Base Contract and Optional Extensions - Roadside System Hardware Maintenance and Software Support Services Cost
4-1	Backup - Base Contract and Optional Extensions - Roadside System Hardware

Sheet Number	Sheet Title
	Maintenance and Software Support Services Schedule
4-2	Backup - Base Contract and Optional Extensions - Triangle Expressway Roadside System Hardware Maintenance and Software Support Services - Labor and Other Direct Cost Items by Month
4-2a	Backup - Base Contract and Optional Extensions - Triangle Expressway Roadside System Hardware Maintenance and Software Support Services - Staff and Position Classifications with Rates
4-3	Backup - Base Contract and Optional Extensions - Morrisville Parkway Interchange Roadside System Hardware Maintenance and Software Support Services - Labor and Other Direct Cost Items by Month
4-3a	Backup - Base Contract and Optional Extensions - Morrisville Parkway Interchange Roadside System Hardware Maintenance and Software Support Services - Staff and Position Classifications with Rates
4-4	Backup - Base Contract and Optional Extensions - Complete 540 Roadside System Hardware Maintenance and Software Support Services - Labor and Other Direct Cost Items by Month
4-4a	Backup - Base Contract and Optional Extensions - Complete 540 Roadside System Hardware Maintenance and Software Support Services - Staff and Position Classifications with Rates
5	Base Contract and Optional Extensions - Roadway Support System Maintenance and Software Support Services Cost
5-1	Backup - Base Contract and Optional Extensions - Triangle Expressway Roadway Support System Maintenance and Software Support Services - Labor and Other Direct Cost Items by Month
5-1a	Backup - Base Contract and Optional Extensions - Triangle Expressway Roadway Support System Maintenance and Software Support Services - Staff and Position Classifications with Rates
5-2	Backup - Base Contract and Optional Extensions - Complete 540 Roadway Support System Maintenance and Software Support Services - Labor and Other Direct Cost Items by Month
5-2a	Backup - Base Contract and Optional Extensions - Complete 540 Roadway Support System Maintenance and Software Support Services - Staff and Position Classifications with Rates
6	Base Contract and Optional Extensions - Intelligent Transportation System (ITS) Maintenance Cost
6-1	Backup - Base Contract and Optional Extensions - Triangle Expressway, Morrisville Parkway Interchange, and Complete 540 Intelligent Transportation System (ITS) Maintenance
6-2	Backup - Base Contract and Optional Extensions - Triangle Expressway ITS Maintenance Cost Schedule Per Device - Labor and Other Direct Cost Items by Month
6-3	Backup - Base Contract and Optional Extensions - Morrisville Parkway Interchange ITS Maintenance Cost Schedule Per Device – Labor and Other Direct Cost Items by Month
6-4	Backup - Base Contract and Optional Extensions - Complete 540 ITS Maintenance Cost Schedule Per Device - Labor and Other Direct Cost Items by Month
7	Base Contract and Optional Extensions Toll Facilities Maintenance Cost
7-1	Backup - Base Contract and Optional Extensions - Triangle Expressway, Morrisville Parkway Interchange, and Complete 540 Toll Facilities Maintenance Cost

Sheet Number	Sheet Title
7-2	Backup - Base Contract and Optional Extensions - Triangle Expressway Toll Facilities Maintenance - Labor and Other Direct Cost Items by Month
7-3	Backup - Base Contract and Optional Extensions - Morrisville Parkway Interchange Toll Facilities Maintenance - Labor and Other Direct Cost Items by Month
7-4	Backup - Base Contract and Optional Extensions - Complete 540 Toll Facilities Maintenance - Labor and Other Direct Cost Items by Month
8	Base Contract and Optional Extensions - Transaction Processing Operations Cost
8-1	Backup - Base Contract and Optional Extensions - Triangle Expressway AVI Transaction Processing Costs Including all Labor and Other Direct Cost Items per Transaction
8-2	Backup - Base Contract and Optional Extensions - Complete 540 AVI Transaction Processing Costs Including all Labor and Other Direct Cost Items per Transaction
8-3	Backup - Base Contract and Optional Extensions - Triangle Expressway Image-based Transaction Processing Costs Including all Labor and Other Direct Cost Items per Image-based Transaction
8-4	Backup - Base Contract and Optional Extensions - Complete 540 Image-based Transaction Processing Costs Including all Labor and Other Direct Cost Items per Image-based Transaction
9	Future Roadside AET Zone System Implementation and Maintenance Cost
9-1	Backup - Future Zone Types Roadside System Cost Schedule Per Zone
9-2	Backup - Future Roadside System Hardware Maintenance and Software Support Services - Labor and Other Direct Cost Items by Month Per Zone Type
10-1	Estimated Lost Revenue
11-1	Additional Services Rates (2018 Values)
12	<u>Intelligent Transportation System (ITS) Implementation Cost</u>
Exhibit B	Payment Schedule

23. Exhibit C Price Proposal Instructions, Section 3 Total Project Costs on page 5 of 19 has been revised as follows:

The Proposer's proposed total price shall be the aggregate of all costs included in Sheet 1. Sheet 1 will automatically roll-up and present the totals from Sheets 2 through Sheet 8, and Sheet 12. These costs will be totaled and presented in the Grand Total Cost column in the line entitled Total Implementation, Operations and Maintenance Cost including Optional Extension Phases.

24. Exhibit C Price Proposal Instructions, Section 14 Completion of Intelligent Transportation System (ITS) Implementation Cost – Sheet 12 on page 17 of 19 has been added as follows:

14. COMPLETION OF INTELLIGENT TRANSPORTATION SYSTEM (ITS) IMPLEMENTATION COST – SHEET 12

The Proposer's total price for the Intelligent Transportation System (ITS) portion of the Implementation Phase shall be the aggregate of all costs included in Sheet 12 which

covers all costs associated with the ITS portion of the Work for the Triangle Expressway, Complete 540, and Morrisville Parkway Interchange.

The costs for Sheet 12 shall include (without limitation) all Equipment, supplies, Software, parts and materials, overhead, burden, profit, taxes, duties, fees, Contractor-acquired permits, licenses, warranties, and other items necessary to meet the Contractor contractual requirements associated with the ITS portion of the System. No price escalation will be allowed above the costs provided on the Price Proposal Sheets to complete the Work except as set forth in Section 15.

The prices on Sheet 12 shall not include charges and costs associated with the Roadside System, Roadway Support System, or the Operations and Maintenance Phase. These costs shall be provided on separate Price Proposal Sheets as described below.

To complete Sheet 12 Proposers should do the following:

1. Sheets 12. The description for each cost component item is provided in the 1st column (A) as required for the implementation for each facility component (Items 1 - 4). Moving to the right in the 2nd column (B), the quantity for each item is already populated based on the anticipated need for each facility. In the 3rd column (C) enter the unit costs for each item. The total item costs will be calculated automatically. Moving to the right, in the 5th column (E), enter any labor costs associated with each of the price elements. The costs for each price element will then automatically be calculated and the summed total will be shown in the appropriate line item on Sheet 1. NOTE: The cost of all surge suppression, the RPU, testing, and all supporting hardware and accessories shall be included in the cost per component item.

The addition of a new Section 14 has updated the following numbered sections:

- +4 15 Completion of Payment Schedule – Exhibit B
- +5 16 Completion of Project Summary – Sheet 1
- +6 17 Cost Escalation

25. Exhibit C Price Proposal Instructions, Section 16 Completion of Project Summary – Sheet 1 on page 18 of 19 has been revised as follows:

Sheet 1 will automatically summarize the costs and pricing detailed in Sheets 2 through 8, and Sheet 12. These costs will be totaled and presented in the line entitled Total Implementation, Operations and Maintenance Cost including Optional Extension Phases.

26. Form D-7 Price Proposal Forms has been updated in its entirety and “paper clipped” to the NCTA RTCS RFP file for ease of completion.