Addendum No. 5 Dated January 8, 2016

The Alameda-Contra Costa Transit District herewith issues this Addendum No. 5 to the above reference Invitation for Bid. Except as modified below, all other terms and conditions shall remain in effect. Strikethrough text represent deletions from original IFB text and bold/italicized/underlined/highlighted text represent additions to original IFB text.

*****Please note that Attachment A for Addendum No. 4 has been revised to correct typographical errors and inconsistencies in the Bid Form and Schedule of Bid Value. The corrected document is available on the website under its original cover. Please download the corrected version for submission with your bid.

Division 00, Section 007200 General Conditions, Part 3, Subsection 3.13 Indemnification, item A, second paragraph is revised as follows:

The Contractor has the entire responsibility for any and all injury to the public and to individuals arising out of any of Contractor’s activities, work performed or breach of any provision of this contract; for all loss or damage arising from any obstructions or difficulties, either natural or artificial, which may be encountered in the project and were caused by Contractor’s acts or omissions or that should have been anticipated by and planned for by Contractor; for damage to property resulting from the performance of the work under this contract; for damage from any action of the elements Contractor prior to the final acceptance of the work; for damage from any act or omission not authorized by this Specification on the part of the Contractor or any agent or person employed by the Contractor.

Response to Requests for Substitution

1. Public Address System (VOIP Audio Device)
   BRT Specifications: Barix Annuncicom 100 or Digital Acoustic IP7 Series.

   Proposed Equivalent: Zenitel Exigo PA System

   Status: **Rejected.** Virtualization is a requirement for the PA System.

2. CCTV Servers, Workstations and Software (CCTV Head End System Software)
   BRT Specifications: Cisco Video Surveillance Manager

   Proposed Equivalent: Genetec Omnicast/Security Center
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Status: **Accepted.** Contractor shall be responsible for all integration, configuration and testing of the proposed equivalent CCTV Control System with the proposed equivalent CCTV cameras.

3. **CCTV Cameras**
BRT Specifications: Cisco 7030E IP Camera

Proposed Equivalent: Bosch NDI-50051-A3 IP Dome Camera with Infrared Illumination

Status: **Accepted.** Contractor shall be responsible for all integration, configuration and testing of the proposed equivalent CCTV cameras with the proposed equivalent CCTV Control System.

4. **Station Canopy:**
BRT Specifications: Division 3.1, Section 05 12 00 Structural Steel Framing, Section 08 63 00 Metal-Framed Skylights, Section 08 84 00 Plastic Glazing, Section 09 96 00 High Performance Coatings

Status: **Rejected.** The request is to use a specific manufacturer/fabricator and not a substitution. The drawings submitted cannot be accepted as an equal at this time due to lack of construction details, engineering calculations, and the requirement that they are in full accordance with the design intent, construction documents, specifications, and contract requirements. The Contractor is required to submit detailed shop drawings, which will be reviewed prior to fabrication.

**Response to Questions/Clarifications**

Q1. Throughout the project there are numerous locations where the layout plans show work to be done, however; no construction area or durations are assigned on the staging plans. For example, in Zone 3 at the intersection of E 12th St and 7th Ave, the layout plans (sheet 43) show paving and concrete work to be done in the intersection, but the staging plans (sheet 656) do not. Can you please clarify when and how long we have to do the work in these areas?

A1. Stage construction plans only provide a guideline for the development of the Traffic Control Plans. The Traffic Control Plans prepared by the Contractor shall include construction of all work included on layout plans. The Contractor during the development of the Traffic Control Plans must determine the exact sequencing of work in each Construction Zone and the durations per the requirements set forth in specifications Division 01, Section 01 55 26.
Q2. The landscape and hardscape plans call for a 6.5” section below the pavers (per detail A on sheet 893), but the construction detail on sheet 277 calls for a 6” section. Please clarify which one we are to use?

A2. The construction detail on sheet 277 will be updated in an addendum to include 6.5” of aggregate base.

Q3. Please provide grading plans for the station platforms that show the original ground and the proposed contour lines. We need this in order to quantify the excavation quantities.

A3. Contract Documents include sufficient information to quantify and construct proposed improvements.

Q4. On sheet 648, do the pavement and curb ramp reconstruction details only refer to the 4 locations shown or throughout the job where similar work is being done? How is AC Transit paying for the temporary K rail, fence, and traffic delineations (channelizers, temp curb ramps, etc.)?

A4. On Sheet 648, the 4 locations are general templates/examples on the ways that the Contractor may develop his traffic control plans for similar work being done throughout the project. All traffic handling and stage construction elements for the project are included in the cost for Traffic Control System.

Q5. The final paragraph of section 314-2.1.3 of the Specs, Quality Control and Assurance, states “Limit the storage time for palms at project site to prevent exposure to weathering, vandalism or damage from work of other trades. Damaged materials will be rejected. Remove all damaged materials from the job site immediately, and replace at no additional cost.” which seems to imply that the palms can be stored on-site for a limited time. What exactly is the limit to how long they can be stored on site, and where, exactly can they be stored on site?

A5. The Contractor shall submit potential storage locations to the Engineer prior to construction. The limit for onsite storage will be provided in an addendum.

Q6. Bid Item 389, Sitework - Excavation and Backfill references Division 2.2 Section 19-3, a Caltrans Specification, although some of the platform locations are not within Caltrans jurisdiction.

Please confirm that Caltrans Specifications will govern this work at all locations.

A6. Section 19-3 of Specification Volume II Division 2.2 and 2010 Caltrans Standard Specification will govern for structural excavation and backfill in both Segment A and Segment B. Specification Volume II Division 2.2 Section 19-3 for structural backfill will be updated in an addendum.
Q7. Bid Item 389, Sitework - Excavation and Backfill references Division 2.2 Section 19-3, this specification provides some information on measurement/payment, but Caltrans typically has separate items for excavation and backfill, and in some cases, items are only measured to the extent that they exceed some other quantity. We recommend that separate items be established for excavation and backfill. Considering that excavation and backfill is dependent upon means and methods, it may make sense for these items to be final pay quantities.

Please clarify how Bid Item 389 will be measured for payment, or if additional items will be added.

A7. Site Work will be revised to the following bid items in an addendum:
- Structural Excavation
- Structural Backfill

For Q8 and Q9, the description in spec section 03 30 00 notes that this section includes foundations and slabs-on-grade.

Q8. Are CIDH foundations (mark F4) included in the quantities for Bid Item 392?
A8. Yes.

Q9. Are ramps at platforms included in the quantities for Bid Item 392?
A9. The sloped sidewalks at platforms are included in Bid Item 392.

For questions 10 – 11: Follow up to question 67 (Addendum 3), Division 2.1 5-6.1. Note 2 requires that the contractor provide a schedule "Allowing at least the time shown..." There are not times provided as part of the table on page 137 "Utility Relocation and Contractor-Arranged Time for the Relocation" and the contractor does not have a defined enough scope of work to determine Utility time requirements. In order to accurately price the work, durations and time restrictions for 3rd party utility work are needed.

Q10. For each relocation, please confirm the scope of work performed by the utility, and any scope that is to be performed by the contractor as part of its work.
A10. Work labeled "BY OTHERS" is to be performed by the third party utility company. All other work/relocations are done by the contractor. Contractor to coordinate with 3rd party utility company as not all relocations can be completed prior to construction and will need to be performed during construction. No additional compensation will be provided for coordination with utility companies.

Q11. If the contractor is to provide any support work for 3rd party utility relocations, please clarify the bid item/allowance that applies.
A11. Contractor will need to coordinate with 3rd party utility relocations as certain relocations cannot be completed prior to construction and will need to be performed during construction of this project. No additional compensation will be provided for coordination with utility companies.
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Q12. When is the completion date? Utility Plans U011 through U224 have considerably more utility relocations "BY OTHERS" than described as part of Division 2.1 5-6.1.

Please confirm that this work will be completed prior to award of Contract and that the contractor has no coordination responsibilities.

A12. Contractor will need to coordinate with 3rd party utility relocations as certain relocations cannot be completed prior to construction and will need to be performed during construction of this project. No additional compensation will be provided for coordination with utility companies.

Q13. Div 2.1 301-2.4 provides requirements for Processed Miscellaneous Base.

What bid item is Processed Miscellaneous Base Paid?

A13. Processed Miscellaneous Base shall be paid for as unclassified excavation.

Q14. Div 2.1 301-5 provides requirements for Lime Treatment.

Please indicate where Lime Treated soil is to be used and under what item it is to be paid.

A14. Lime treated soil is provided in the specifications because it may be beneficial to be utilized by the Engineer as change order work depending on the site conditions found in the field. At this time it is not required.

For Q15 and Q16: 2.1 307-17.1.1.3 specifies the requirements for contractor-provided traffic control, but does not specify the Level of Service minimums for each intersection, nor the constraints to be considered.

Q15. Please provide constraints to be imposed by the operating agencies so that pricing can be obtained from professional engineers.

A15. Constraints for Segment B were provided in Addendum No. 4 Specification Volume II, Division 2.1, Section 307-17.1. Additional constraints will be provided in an addendum for Segment A.

Q16. Please provide the Level of Service Minimums and hierarchy of constraints.

A16. As stated in the specifications, the "recommended coordinated timing patterns and TSP timing shall be submitted to the operating agency (Caltrans, City of Oakland, City of San Leandro) for approval" and, "TSP parameters shall be developed for each controller, to provide the maximum priority to BRT, within the constraints imposed by the operating agencies."
Q17. For the Station Platform quantities, Bid Item 392 (CIP Concrete) is intended to include the 4" topping concrete. The concrete topping spec calls for architectural features related to the mix design/materials, application, and finish; it is in no way equivalent to CIP structural concrete and it should be separated as its own Bid Item. The concrete topping scope is a specialty item related to finishes and it should have its own unit price.

Please breakout the quantity for concrete topping from Bid Item 392 and create a new bid item specific to concrete topping.

A17. Concrete topping will be included as a separate bid item in an addendum.

Q18. Plans sheet DR553 calls for new manholes.

Please specify what variation of manhole is to be used (Type H, G, or K) at each location.

A18. The plans will be updated to include the type of manhole required at each location in an addendum.

Q19. Plans sheet DR553 calls for modifying drainage inlets to manholes.

Plan sheet DR553 calls for Please specify if what variation of manhole is to be used (Type H, G, or K) at each location.

A19. Modifying drainage inlets to manholes shall be done per the details on the contract drawings.

Q20. Sheet #451 calls for 15" RCP, the closest size found on the bid form is 18" bid item 61.

Will this RCP be 15" or should it be 18"? If 15", please provide a new bid item.

A20. Plans will be updated to a 15" HDPE pipe in an addendum.

Q21. The contract drawings do not have any information on the depth of the existing PCC Crosswalks to be demolished.

Please provide the depth of existing PCC decorative crosswalks.

A21. The unit for Bid Item 15, Remove Decorative Crosswalk, is square feet. The depth of the existing concrete crosswalks thought the corridor varies.

Q22. Plan details indicate that new trees are to include irrigation that is connected to existing irrigation. However, no existing irrigation plans are included.

We recommend that all irrigation work for new trees be paid as a change order.

A22. New trees do not include connections to existing irrigation systems except on Sheet L106. The two relocated palm trees shown on this sheet are to be reconnected to an existing irrigation system that is to be reconfigured by the Contractor.
Q23. We find no requirements for pre and post construction pavement surveys. Please confirm that no other agencies such as City of Oakland, San Leandro will require pre and post construction pavement surveys.

A23. Contractor shall bid as is.

Q24. The indemnification requirement for this project stipulates that the contractor indemnify the City and AC Transit against 3rd party “economic loss”. Insurance coverage for this type of loss is costly and difficult to obtain. Providing this level of indemnity will result in significant premiums, loss reserves, and contingencies being included in the price. This will increase the overall bid price for the work. In light of recent developments on VTA projects in the City of San Jose, we respectfully request that this requirement be stricken.

A24. The indemnity is specific to the Contractor's work or omission. Please see revisions per this Addendum No. 5.

Q25. Does AC Transit already have an NOI from RWQQB assigned for the project?

A25. No. It will be completed after contract award.

Q26. As bid items 211 “Rain Event Action Plan” and 212 “Storm Water Annual Reports” are bid items specific to Segment A, are REAP’s and Annual Reports only required to be submitted for work within Segment A?

A26. Yes.

Q27. Section 303-5.1.1.5 Paragraph i “Pre/Post Construction Survey” states that for each location shown on the plans, perform preconstruction survey to verify that forms and site constraints will allow the design dimensioning and slope requirements to be achieved. These “locations” are not shown on the contract plans. Please identify the specific locations applicable to this section. (It would seem like a waste of public funds to require the contractor include costs to employ a licensed Land Surveyor/Civil Engineer to verify all of the design dimensions that were already prepared by the Owner’s Land Surveyor/Civil Engineer in providing the actual dimensions defined in the contract plans).

A27. The specific locations of the pre/post construction survey are shown on the construction details in the drawing number C300 series and C400 series as note 93.

Q28. Section 13-3.01A states that the project is risk level 2 in the Lower San Leandro Creek area. Please provide specific limits of this area, i.e. stationing or layout plan sheet.

A28. Specification will be updated to include specific limits in an addendum.
Q29. Section 39-1.03C(3) “Prime Coat” says to apply a slow-setting asphaltic emulsion as a prime coat to aggregate base areas designated by the Engineer. Please provide the exact limits of the prime coat application or confirm that none is required, so as to provide a complete and accurate bid proposal.

A29. Prime Coat is required at the locations where the Engineer determines that existing pavement has moderate to high severity fatigue cracking. This work is change order work and should not be included your bid. This work, if directed by the Engineer, would be a change order to the Contract.

Q30. Section 39-2.03 paragraphs of the RSS have been replaced as shown on page 394. Please confirm that all Hot Mix Asphalt Type A shall be placed in accordance with Method Construction Process specification.

A30. The paragraphs in Section 39-2.03 of the RSS were replaced to require use of warm mix asphalt additive technology.

Q31. Section 39-3.03 paragraphs of the RSS have been replaced as shown on page 395. Please confirm that all RHMA-G shall be placed in accordance with Method Construction Process specification.

A31. The paragraphs in Section 39-3.03 of the RSS were replaced to require use of warm mix asphalt additive technology.

Q32. Reference is made to Section 27 53 50 Part 2.3 “Ticket Vending Machine (TVM)”. Are there any manufacturers that have existing TVM models that meet the requirements of this section? Please provide list of manufacturer names and models that meet this specification.

A32. Several manufacturers provide TVMs that meet the requirements in Section 27 53 50, such as units from Cubic Transportation Systems, Scheidt & Bachmann, SPX Genfare, VenTek Transit, Xerox, and others. It is the Contractors responsibility to ensure that contract requirements are met.

Q33. Reference is made to Section 27 53 50 Part 2.6 “Central Computer System”. Can the CCS be a web-based cloud server? Or does the CCS have to be physical hardware system installed at AC Transit facility? Section 27 53 50 Part 3.2 C “Central Computer System” states that The Contractor shall follow all installation requirements for the CCS servers as specified in Division 3.2 Section 27 22 10 and that AC Transit will provide the space suitable for the hardware installation and an Ethernet connection to the BRT communications network. Section 27 22 10 provides information for SCADA, CCT, and PA Systems, but has no details for the CCS. Please clarify the hardware requirements for the CCS.

A33. The specification requires the fare collection system’s CCS to be a PCI compliance installation with server hardware furnished and installed at the AC Transit facility. The CCS hardware requirements are detailed in the Specifications Volume III, Division 3.2, Section 27 53 50, Part 2.6A. The Contractor shall design, furnish and install the hardware per these requirements, and submit the specifications of the hardware to be furnished (model numbers, hard drive space, etc.) as part of the System Design Report submittal, CDRL 20750-7.
AC TRANSIT DISTRICT
PURCHASING DEPARTMENT

AC TRANSIT EAST BAY BUS RAPID TRANSIT PROJECT INFRASTRUCTURE AND STATION PLATFORMS

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Q34. The final paragraph of section 314-2.1.3 of the Specs, Quality Control and Assurance, states “Limit the storage time for palms at project site to prevent exposure to weathering, vandalism or damage from work of other trades. Damaged materials will be rejected. Remove all damaged materials from the job site immediately, and replace at no additional cost.” which seems to imply that the palms can be stored on-site for a limited time. What exactly is the limit to how long they can be stored on site, and where, exactly can they be stored on site?

A34. The Contractor shall submit potential storage locations to the Engineer prior to construction. The limit for onsite storage will be provided in an addendum.

Q35. Plan sheet 1395, key note 8, and plan sheet 1398, key note 13, states “Engineered fill per AGS final foundation report, #2011-1177, dated March 20, 2014” but no report dated March 20, 2014 was provided. Please provide this report.

A35. All notes referencing engineering fill will be revised in an addendum to comply with specifications for structural backfill. Specification Volume II Division 2.2 Section 19-3 for structural backfill will be updated in an addendum to include requirements set forth in the Foundation Report. Foundation Report dated October 17, 2015 will be included as informational handout in an addendum.

Q36. The details and key note shown on plan sheet 1395 show approximately 3’ of engineered fill to be placed below the footings of the station platforms. Please provide us with the engineered fill specifications.

A36. Specification Volume II Division 2.2 Section 19-3 for structural backfill will be updated in an addendum to include requirements set forth in the Foundation Report.

Q37. Can onsite excavation material be used for engineered fill?

A37. Onsite excavation material can only be used for structural backfill when it meets the specification requirements for structural backfill. Specification Volume II Division 2.2 Section 19-3 for structural backfill will be updated in an addendum to include requirements set forth in the Foundation Report.

Q38. Section 004000 Schedule of Bid Prices, page 65: Item 195 is listed with two different quantities: 5 ea and 7 ea. Which is the correct quantity?

A38. Please see corrected Attachment for Addendum A on our website (per notation on page 1 of this addendum).
For Q39 and Q40: Section 004000 Schedule of Bid Prices & Bid Form Part 2 Revised, pages 53 and 79: Item 433 Allowance Item 6 for the San Leandro Transit Center is listed as a LS Item. However, on Page 79 the Allowance written-in Unit Price is $3,810,000 and the written-in Total Price is $3,790,000, and on Page 53 the Total Price is written-in as $3,200,000.

Q39. Which one of these three prices is correct?
A39. Please see corrected Attachment for Addendum A on our website (per notation on page 1 of this addendum).

Q40. Also, after correcting Allowance 6; what is the corrected price for the Total Allowance on Page 53?
A40. Please see corrected Attachment for Addendum A on our website (per notation on page 1 of this addendum).

Q41. Section 004000 Schedule of Bid Prices & Bid Form Part 2 Revised, pages 53 and 79: Item 435 Allowance Item 8 for Splice Chambers is listed as a LS Item. However, on Page 79 the Allowance written-in Unit Price is $69,400 and the written-in Total Price is $132,000, and on Page 53 the Total Price is written-in as $132,000.

Which one of these two prices is correct?
A41. Please see corrected Attachment for Addendum A on our website (per notation on page 1 of this addendum).

Q42. Section 004000 Schedule of Bid Prices & Bid Form Part 2 Revised, pages 53 and 70: Item 436 Allowance Item 9 for Furnish Manhole Cover and Frames is listed as a LS Item. However, on Page 79 the Allowance written-in Unit Price is $30,100 and the written-in Total Price is $31,200, and on Page 53 the Total Price is written-in as $31,200.

Which one of these two prices is correct?
A42. Please see corrected Attachment for Addendum A on our website (per notation on page 1 of this addendum).