



**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**

ADDENDUM NO. 2
ISSUED: NOVEMBER 23, 2021

PROJECT NO. 64-22-02

**TOLL COLLECTION SYSTEM EASTERN TOLL PLAZAS
TOLL PLAZA 145, TOLL PLAZA 151, TOLL PLAZA 152, TOLL PLAZA 161
TOLL PLAZA 173, TOLL PLAZA 180, TOLL PLAZA 187,
TOLL PLAZA 193 & TOLL PLAZA 209
LORAIN, CUYAHOGA, SUMMIT, PORTAGE, AND TRUMBULL COUNTIES, OHIO**

ATTENTION OF BIDDERS IS DIRECTED TO:
ANSWERS TO QUESTIONS RECEIVED THROUGH 4:00 PM ON NOVEMBER 22, 2021

MODIFICATIONS TO THE CONTRACT DOCUMENTS

Plan Sheet: 5 of 213.

Issued by the Ohio Turnpike and Infrastructure Commission through Aimee Lane, Esq., Director of Contracts Administration.

Aimee W. Lane, Esq.
Director of Contracts Administration

November 23, 2021
Date

ANSWERS TO QUESTIONS RECEIVED THROUGH 4:00 P.M. ON NOVEMBER 22, 2021:

Q#3 Are the existing and new DATIM units the same size, or will additional structural work be necessary to be done to the toll booths to accommodate the new units?

A#3 Per note 12 on Plan Sheet 201 of 213, "All Dimensions reflect prior installs and are for reference only. ATPM and DATIM details are to be coordinated with the final size of equipment provided by the TCS Integrator." However it is anticipated that the DATIM's are approximately the same size and will not require any structural work. The Contractor will be required to install new trim per note 7 on Plan Sheet 201 of 213 to ensure the Toll booth is weather tight.

Q#4 Regarding the load center relocation in the booths:

Is the relocation of the existing load centers in the booths intended to reuse the existing load centers, or are they to be new? Notes on sheet 203 lead one to believe that the panels are to be new.

- **If they are to be new, please provide specs for the new panels.**

A#4 The plan intent was remove and reinstall the load center if it was impacted by the installation of the new DATIM.

Q#5 Where is the intended new location of the panel? Is it on the wall next to the DATIM, or in the location designated "New Column Panel"?

- **If it is next to the DATIM, at least one of the booths at Toll Plaza 145 has an intercom system mounted in this location that does not seem to be addressed in the plans. Is this typical for all booths? What is the plan for these intercoms?**
- **What is the "New Column Panel" if not the relocated load center?**

A#5 With the detail reflecting all booths, the details show the two possible locations of the existing load center. One potentially could be adjacent to the existing DATIM and one could be in the location of the new ATPM Installation. If the location of the load center is adjacent to the DATIM see the response to Q#4. If existing load center is in the location of the new ATPM it shall be placed in the location as shown for New Column Panel (hence the relocated load center). The intercom system was installed after the design was completed. The intercom system shall remain in place and operational. The intercom system was installed in most if not all Toll Booths.

Q#6 Sheet 203 indicates that the feeder conductors to the load center are to be left intact. Is that to say that the existing conductors are to be reused to the new location?

- **Are the conductors long enough for the proposed location?**
- **If not, are they to be spliced somewhere and extended?**
- **Please provide additional details on these conductors.**

A#6 The existing conduits are to be extended and all new cables shall be installed. The subsummaries for each Toll Plaza indicate wire type and conductor size.

Q#7 Sheet 203, top center, calls out existing conduits to be intercepted and extended to the new load center. Please provide additional details on these conduits (size, material, etc.)

- Are these conduits local to each booth, or do they run in between booths? Are they only for the booth lighting, receptacles, heaters, etc.)?
- Is the work related to this incidental to other items, or is the work incorporated into the subsummaries? (Such as the conduit, conductors, junction boxes, etc.)

A#7 *All existing conduits shown on Plan Sheet 203 of 213 are local to each toll booth. All conduits that run between booths or back to the communication room are under the existing cabinet by the LEC or UPS. The conduits in the booths are typically 1” or less and are metal clad flexible. The conduits are for the booth lighting, receptacles, etc. All work related to the ATPM Installation or DATIM installation are included in the pay items per each location of Item Special – Toll Booth Retrofit for ATPM Installation and Item Special – Toll Booth Retrofit for DATIM Installation on Plan Sheet 5 of 213.*

Q#8 In the area that shows the “New Column Panel” next to the ATPMs, there are Daktronics keypads that do not appear to be called out in the plans. These would interfere with the column panels. Are these keypads to be addressed by others?

A#8 *The plan intent is to relocate the existing Daktronics mounting box and extend the conduits associated with the relocation. The TCS Integrator will install a new Daktronics keypad on the relocated Daktronics mounting box. All of the work associated with the relocation of the Daktronics mounting box and extension of conduit shall be included in the Plan note Item Special-Toll Booth Retrofit For ATPM pay item. Plan Sheet 5 of 213, Plan Note Item Special-Toll Booth Retrofit for ATPM Installation has been reviewed and revised and is included with this Addendum No. 2.*

Q#9 Is the work in the interstitial space above the booths limited to just above the booths? Is all work contemplated inside the interstitial space accessible through the ceiling panels in the booths, or would we need to access the inside of the canopy? If so, how is the cavity inside the canopy accessed?

A#9 *It is anticipated that the booth work will occur above the ceiling and will be accessible through the ceiling tiles. Additionally, some cabling work may require going through the toll booth, using the toll booth/canopy chase into the canopy and back to the building’s communication room. There are access panels in the canopy underside to allow access into the canopy and down to the booths as required.*

Q#10 What is the below grade depth of the pipe guards?

A#10 *Per Pipe Guard detail on Plan Sheet 203 of 213, the installation depth of the pipe guard is 10” below top of slab of the island.*

END OF ADDENDUM NO. 2

C:\Mike\Toll Plaza 64\TOHOTC-Toll Modernization\Task 3\East\Shared\Sheets\711907-EAST-GENERAL NOTES.dwg; Gen Notes 3; 11/22/21 - 5:05pm

GENERAL STRUCTURAL NOTES

1. THE TCS INTEGRATOR SHALL FURNISH, INSTALL AND ADJUST ALL TCS EQUIPMENT MOUNTED TO THE STRUCTURES SHOWN IN PLANS.
2. THE TCS INTEGRATOR SHALL DISCONNECT AND REMOVE EXISTING ATPM/DATIM AS REQUIRED. TCS INTEGRATOR SHALL PROVIDE AND PLACE ATPM/DATIM IN TOLL BOOTH LOCATION PREPARED BY CONTRACTOR. ATPM/DATIM SCOPES OF RESPONSIBILITY SHALL BE AS DEFINED BELOW:

TCS INTEGRATOR

- REMOVE/DEMO EXIST ATPM/DATIM
- PROVIDE AND PLACE NEW ATPM/DATIM
- SUPPLY ALL HARDWARE AND CABLES TO TERMINATE AND TEST
- REMOVAL AND DISPOSAL OF TOLL BOOTH EQUIPMENT AS REQUIRED

CONTRACTOR

- MODIFICATION OF TOLL BOOTH TO ACCEPT NEW ATPM/DATIM
- TRIM OUT AND WEATHER PROOFING OF ATPM/DATIM INSTALLATION
- INSTALLATION OF GROUT LEVELING PAD AND PIPE GUARDS

3. TCS INTEGRATOR IS RESPONSIBLE FOR PLACING AND TERMINATING THE ATPM/DATIM. ALL REMAINING STRUCTURAL WORK IS PERFORMED BY CONTRACTOR ON EXISTING TOLL BOOTHS THAT MAY OR MAY NOT BE EQUIPPED WITH DATIM OR ATPM.

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM OF WORK SHALL INCLUDE THE REMOVAL OF A PORTION OF THE EXISTING CONCRETE ISLAND OR CURB TO PROVIDE A TRENCH FOR CONDUITS, REMOVE A BUMP OUT OR PLACEMENT OF A JUNCTION BOX. THE REMOVAL SHALL BE IN ACCORDANCE WITH ODOT CMS 202. WHEN REINFORCING IS ENCOUNTERED, THE CONTRACTOR SHALL CUT AND REMOVE REINFORCING AND PROVIDE 709.14 EPOXY COATED WELDED WIRE FABRIC IN ACCORDANCE WITH ODOT CMS 509 WITHIN THE LIMITS OF THE REMOVAL. WHERE THE EXISTING REINFORCING IS CUT, A SUFFICIENT LENGTH OF EXPOSED REINFORCING SHALL REMAIN TO SECURELY TIE THE WELDED WIRE FABRIC TO IT. REPAIR REINFORCING EPOXY COATING AT CUT LOCATION AND ANY PORTION OF THE EXPOSED EXISTING REINFORCING AS REQUIRED. THE COSTS OF THE WIRE FABRIC SHALL BE INCLUDED WITH THE ITEM 511, CLASS QC MS CONCRETE, AS PER PLAN. SEE SHEET 206 AND 208.

ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER SQUARE YARD OF ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 202 – STRUCTURE REMOVED, AS PER PLAN

THIS ITEM OF WORK SHALL INCLUDE THE REMOVAL OF THE SCALE PIT AND FRAME, REINFORCING, SUBGRADE AND MISCELLANEOUS ITEMS TO ENSURE THE PROPER PLACEMENT OF THE PROPOSED PAVEMENT PER THE DETAIL ON SHEET 208. IF THE CONTRACTOR ELECTS, THE SCALE PIT AND FRAME MAY BE REMOVED TO APPROXIMATELY TWO FEET BELOW THE BOTTOM OF THE CONCRETE SLAB. THE VOID CREATED BY THE SCALE PIT AND FRAME SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED PAVEMENT SECTION PER THE DETAILS ON SHEET 209 WITH THE USE OF ITEM 613 LOW STRENGTH MORTAR BACKFILL, TYPE 3 PER THE NOTE ON SHEET 4.

ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER SQUARE YARD OF ITEM 202, STRUCTURE REMOVED, AS PER PLAN.

ITEM 511 – CLASS QC MS CONCRETE, AS PER PLAN

THIS ITEM SHALL BE IN ACCORDANCE WITH ODOT CMS 511 AND SPECIFICATION SECTION 03300 WITH THE EXCEPTION THAT NO. 8 AGGREGATE SHALL BE REQUIRED. ALL AGGREGATE SHALL BE CRUSHED CARBONATE STONE. REINFORCING AND DOWELS SHALL BE INCLUDED IN THE UNIT COST OF THIS ITEM. THE SURFACE FINISH SHALL BE CONSISTENT WITH THE EXISTING ADJACENT SURFACES.

ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER CUBIC YARD OF ITEM 511, CLASS QC MS CONCRETE, AS PER PLAN.

ITEM SPECIAL – TOLL BOOTH RETROFIT FOR ATPM INSTALLATION

THIS ITEM CONSISTS OF THE MODIFYING OF THE EXISTING TOLL BOOTH AS REQUIRED TO INSTALL THE ATPM, POWER, AND COMMS FOR THE INSTALLATION OF NEW ATPM'S BY TCS INTEGRATOR.

THIS WORK CONSISTS OF, BUT IS NOT LIMITED TO THE FOLLOWING AND AS SHOWN ON SHEETS 201 TO 203:

RELOCATION OF ELECTRICAL PANEL AND COMPONENTS, SWITCHES AND THERMOSTAT.

REMOVAL AND DISPOSAL OF WALL HEATERS.

REMOVAL AND REINSTALL OF INTERIOR AND EXTERIOR SIDING AND TRIM.

THE REMOVAL AND REPLACEMENT OF STRUCTURAL STEEL.

THE RELOCATION OF HVAC VENTS INCLUDING MODIFICATIONS TO BOOTH CEILING, LIGHTING AND DUCTWORK, INSTALLATION OF NEW DUCTWORK, DIFFUSERS AND GRATING.

THE RELOCATION OF LIGHTING FIXTURES AS NECESSARY TO FACILITATE THE RELOCATION OF HVAC VENTS.

ALL ELECTRICAL WORK TO ACHIEVE THE RETROFIT.

OPENINGS THROUGH CONCRETE FLOOR AND STRUCTURAL STEEL FOR THE RE-ROUTING OR INSTALLATION OF NEW ELECTRICAL LINES.

REMOVAL OF EXISTING PIPE GUARD PROTECTING THE BOOTH.

RELOCATE DAKTRONICS MOUNTING BOX, KEYPAD AND EXTEND CONDUITS AS NEEDED. THE TCS INTEGRATOR WILL REMOVE EXISTING KEYPAD, INSTALL A NEW KEYPAD AND INSTALL ASSOCIATED WIRING.

THE PLACEMENT OF NEW LEVELING PAD UNDER NEW ATPM'S.

SUPPLY AND INSTALL NEW ALUMINUM TRIM PAINTED TO MATCH THE EXISTING TOLL BOOTH AS REQUIRED TO PROVIDE WEATHER PROOF BOOTH.

PAYMENT FOR THE TOLL BOOTH RETROFIT FOR ATPM INSTALLATION WORK WILL BE AT THE PER EACH PRICE BID WHICH SHALL BE FULL COMPENSATION FOR LABOR, MATERIALS, TRANSPORTATION AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK.

ITEM SPECIAL – TOLL BOOTH RETROFIT FOR DATIM INSTALLATION

THIS ITEM CONSISTS OF PROVIDING ALL NECESSARY COMPONENTS REQUIRED FOR THE INSTALLATION OF NEW DATIM'S BY THE TCS INTEGRATOR.

THIS WORK CONSISTS OF, BUT IS NOT LIMITED TO THE FOLLOWING AND AS SHOWN ON SHEETS 201 TO 203:

REMOVAL AND REPLACEMENT OF INTERIOR AND EXTERIOR SIDING AND TRIM.

SUPPLY AND INSTALL NEW ALUMINUM TRIM PAINTED TO MATCH THE EXISTING TOLL BOOTH AS REQUIRED TO PROVIDE WEATHER PROOF BOOTH.

PAYMENT FOR THE TOLL BOOTH RETROFIT FOR DATIM INSTALLATION WORK WILL BE AT THE PER EACH PRICE BID WHICH SHALL BE FULL COMPENSATION FOR LABOR, MATERIALS, TRANSPORTATION AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK.

ITEM SPECIAL – LANE CONTROL SIGNAL ENCLOSURE

THIS ITEM OF WORK SHALL APPLY TO FURNISHING AND INSTALLING A LANE CONTROL SIGNAL (LCS) ENCLOSURE. THE LANE CONTROL SIGNAL ENCLOSURE SHALL BE PER THE DETAILS ON SHEET 204. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE EXISTING LCS ENCLOSURE PRIOR TO FABRICATING THE COVER PLATE AND INTERIOR SUPPORT ANGLES. THIS ITEM SHALL INCLUDE ANY MODIFICATIONS TO THE CANOPY TO ACCEPT THE ALUMINUM ANGLES AND PLATES AS SHOWN IN THE DETAIL AND PAINTING TO MATCH THE CANOPY.

ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER EACH FOR ITEM SPECIAL – LANE CONTROL SIGNAL ENCLOSURE.

ITEM SPECIAL – PIPE GUARDS

THIS ITEM OF WORK SHALL APPLY TO FURNISHING AND INSTALLING PIPE GUARDS TO PROTECT THE NEW ATPM OR DATIM. THE PIPE GUARDS SHALL BE PER THE DETAILS ON SHEET 203.

ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER EACH FOR ITEM SPECIAL – PIPE GUARDS.

ITEM SPECIAL – AVI CABINET MOUNTING BRACKET

THIS ITEM OF WORK SHALL APPLY TO FABRICATING AND INSTALLING A NEW GALVANIZED STEEL CABINET SUPPORT FOR A NEW AVI CABINET FURNISHED AND INSTALLED BY THE TCS INTEGRATOR THAT WILL BE MOUNTED ON THE EXISTING READER CABINET POLE. THE MOUNTING BRACKET SHALL BE PER THE DETAILS ON SHEET 199. THIS ITEM SHALL INCLUDE ALL COORDINATION WITH THE TCS INTEGRATOR FOR THE SIZE OF THE CABINET TO BE INSTALLED.

ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER EACH FOR ITEM SPECIAL – AVI CABINET MOUNTING BRACKET.

ITEM SPECIAL – GANTRY CABINET MOUNTING BRACKET

THIS ITEM OF WORK SHALL APPLY TO FURNISHING AND INSTALLING AN EXTENSION OF THE MOUNTING BRACKET THAT IS MOUNTED ON THE EXISTING GANTRY. THE CONTRACTOR SHALL FIELD WELD A NEW ANGLE AND FIELD PAINT TO MATCH EXISTING. THE MOUNTING BRACKET SHALL BE PER THE DETAILS ON SHEET 200. THIS ITEM SHALL INCLUDE ALL COORDINATION WITH THE TCS INTEGRATOR.

ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER EACH FOR ITEM SPECIAL – GANTRY CABINET MOUNTING BRACKET.

ITEM SPECIAL – REAR VES CAMERA POLE AND MOUNTING BRACKET

THIS ITEM OF WORK SHALL APPLY TO FABRICATING AND INSTALLING A NEW CAMERA POLE MOUNTED TO THE TOLL BOOTH. THE POLE AND MOUNTING BRACKET SHALL BE PER THE DETAILS ON SHEET 205. THIS ITEM SHALL INCLUDE ALL COORDINATION WITH THE TCS INTEGRATOR, WALL ANCHORS, MOUNTING BRACKET, FIELD DRILLED HOLES WITH GROMMETS AND WALL GANG BOX FURNISHED AND INSTALLED ON BOOTH.

ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS TO PERFORM THE REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER EACH FOR ITEM SPECIAL – REAR VES CAMERA POLE AND MOUNTING BRACKET.

PROJECT 64-22-02
 DATE: 8-9-21
 GENERAL NOTES 3 OF 6
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