



**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**

682 Prospect Street
Berea, Ohio 44017

**ADDENDUM NO. 4
Issued October 22, 2019**

**RFP No. 1 - 2019
REQUEST FOR PROPOSALS
TO FURNISH AND INTEGRATE A
TOLL COLLECTION SYSTEM ISSUED OCTOBER 4, 2019**

ATTENTION OF RESPONDENTS IS DIRECTED TO:

**PRE-PROPOSAL PRESENTATION
OCTOBER 22, 2019**

Issued by the Ohio Turnpike and Infrastructure Commission through Jennifer L. Stueber, General Counsel.

A handwritten signature in blue ink, appearing to read "JL Stueber".

10/22/19

Jennifer L. Stueber, Esq.
General Counsel

Date



OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

**Furnish, Integrate and Maintain a
Toll Collection System**

**Pre-Proposal Conference
October 22, 2019**

Welcome and Introductory Remarks



OTIC Mission Statement

- To be the industry leader in providing safe and efficient transportation services to our customers, communities and partners, we must...*

1. Improve **SAFETY**
2. Improve **QUALITY OF WORK LIFE**
3. Improve **CUSTOMER EXPERIENCE**
4. Maintain excellent **SYSTEM CONDITIONS**
5. Maintain strong **FINANCIAL STEWARDSHIP**

Pre-Proposal Conference Ground Rules

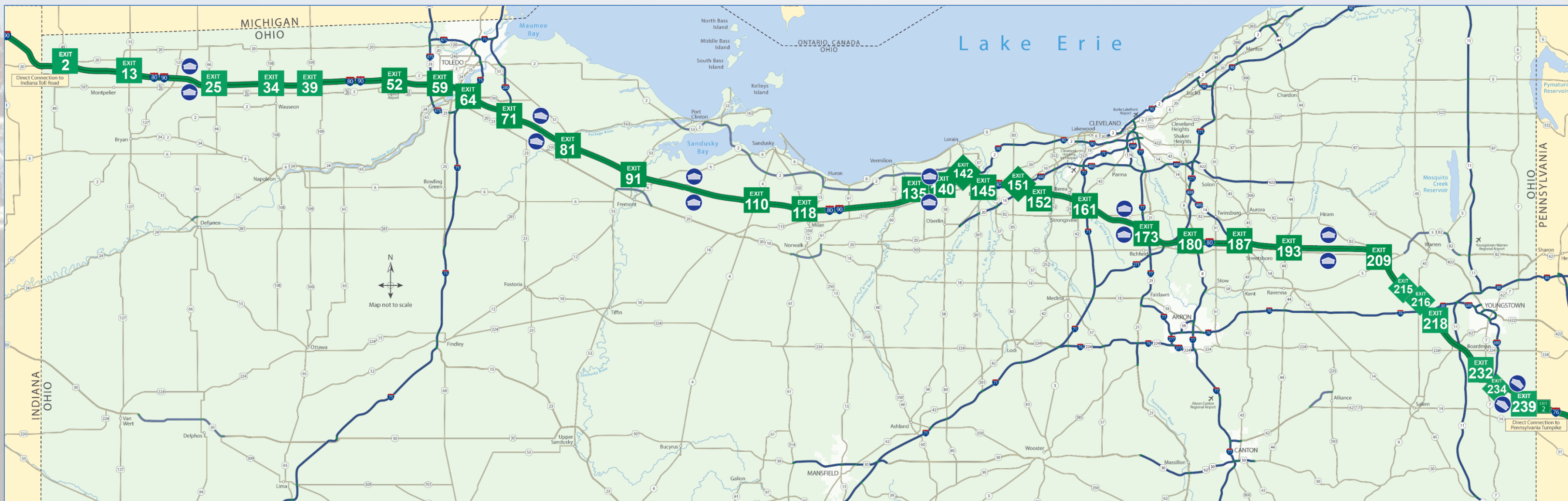
Nothing stated in this Pre-Proposal Conference or in the subsequent facility tour this afternoon shall be construed as a formal change to the TCS RFP.

All changes to the TCS RFP shall be made through formal addendums issued by OTIC. (See Section 5.4 of the TCS RFP)

Procurement Schedule

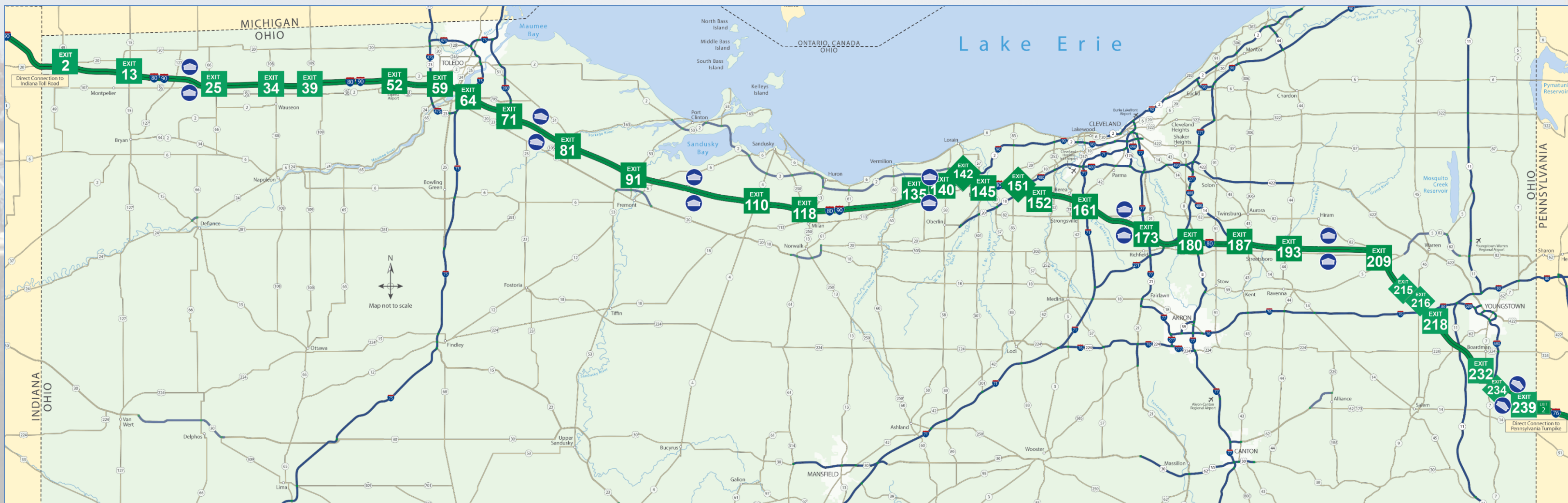
Deadline for SUBMITTING QUALIFICATIONS (2:00 p.m).	9/6/2019
Notification of Short-Listed Respondents	10/4/2019
Release RFP	10/4/2019
Mandatory Pre-Proposal Conference and Facility Tour	10/22/2019
Inquiry Period ends (5:00 p.m. Eastern)	11/12/2019
Optional One-on-One Tours	As Scheduled
Deadline for SUBMITTING PROPOSALS (2:00 p.m. Eastern)	12/6/2019
Preliminary Technical Proposal Evaluation	
Competitive Respondent Selection and Notice, if applicable	
One-on-One Discussions, if applicable	
Interviews and System Demonstrations	
Final Evaluation of Technical and Pricing Proposals	
Estimated Contract Award	2/24/2020
Estimated Contract Execution	3/9/2020
Estimated Notice to Proceed/Project Start-up	4/1/2020

Existing Ohio Turnpike Toll Collection System



- ✓ Installed in 2009, the Ohio Turnpike's current system of toll collection is approaching the end of its useful life. Increased cost of maintenance and difficulty procuring obsolete hardware makes it a challenge to maintain.

Existing Ohio Turnpike Toll Collection System



Closed Ticket System,
31 tolled interchanges,
232 toll lanes (98 entry,
134 exit, 42 reversible)

E-ZPass Equipment and
Automatic Toll Lane
Gates in every Lane

Vehicle Pre-Class in
every Entry Lane;
Post-Class in every
Entry & Exit Lane

Toll collected in each
Exit Lane (64% with
E-Zpass overall), E-ZPass
trips built in TCS Host

Existing Ohio Turnpike Toll Collection System



Low-Speed Weigh-in-Motion and Overheight Detection in each Entry Lane

Integrated Real-Time Credit Card Terminals in each Exit Lane

Automated Toll Payment Machines in 44 Exit Lanes

Digital Video Audit Coverage of every Lane

OTIC Vehicle Classification

Class

1 
Low 2-axle vehicles and all motorcycles
(including motorcycles pulling trailers)

2 
High 2-axle vehicles and low 3-axle vehicles

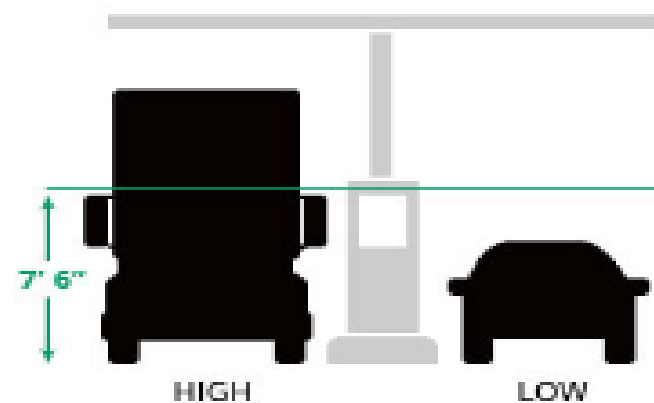
3 
High 3-axle vehicles and low 4-axle vehicles

4 
High 4-axle vehicles and low 5-axle vehicles

5 
High 5-axle vehicles and low 6-axle vehicles

6 
High 6-axle vehicles and Saddlemounted Vehicles (3 Max)

7 
All vehicles with 7 or more axles



Vehicles under 7'6"
in height as
measured over the
first two axles are
classified as LOW.

Unique TCS Items

Ticket System

- Dual Height Automatic Ticket Issuing Machines
- Exit Ticket Processing Equipment

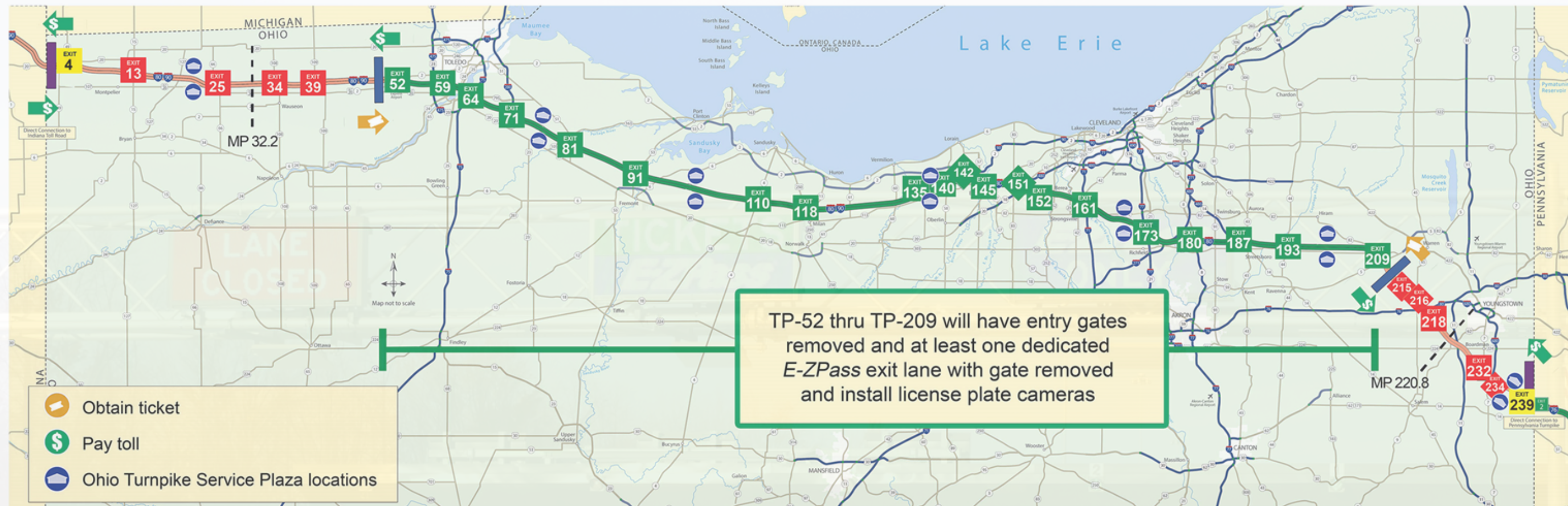


Unique TCS Items

Automated Toll Payment Machines (Dual Height)



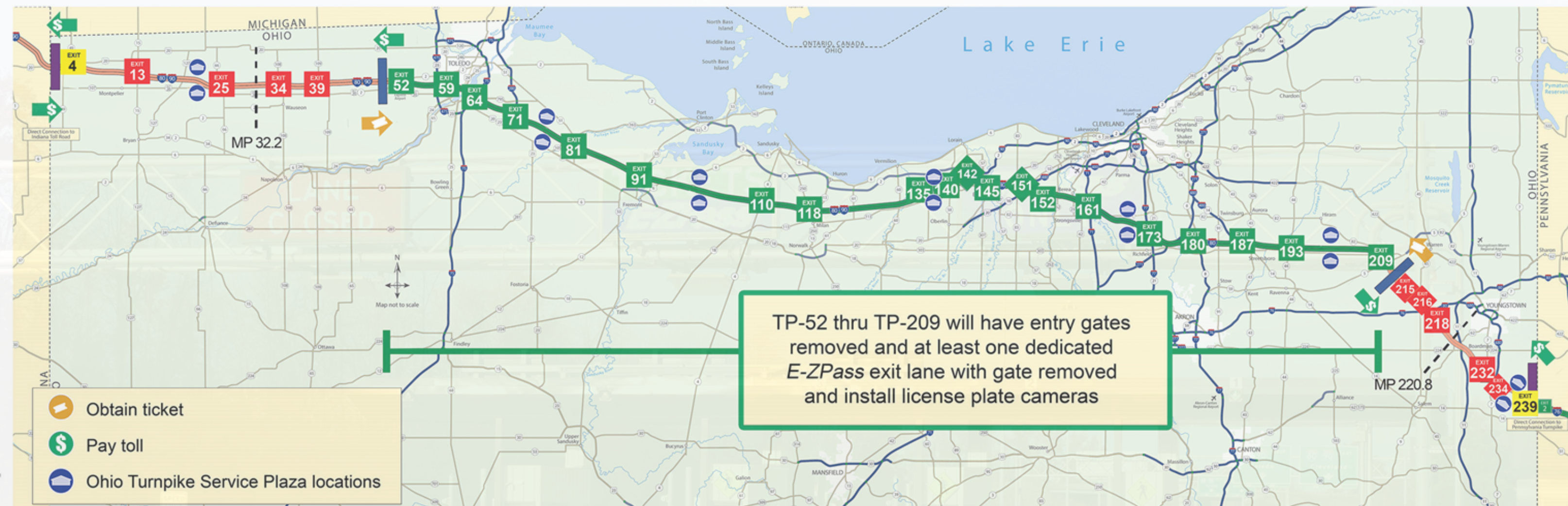
Modernizing the Ohio Turnpike's Toll Collection System



Mainline Considerations

- Implement highway speed *E-ZPass* lanes at Eastgate and Westgate (fixed tolls by vehicle class) – Reconstruct Westgate
- Convert Eastgate to one-way collection Westbound – No collection Eastbound
- Construct two mainline barrier plazas with highway speed *E-ZPass* lanes at MP 49 and MP 211 (new ends of closed ticket system)
- Remove 9 Toll Plazas but maintain interchange access to Turnpike (TP 13, 25, 34, 39, 215/216, 218, 232, 234)
- ● ● Maintain 2013 toll rate freeze for Class 1 *E-ZPass* trips under 30 miles through 2023
- ● ● Remove all entry toll lane gates and *E-ZPass* Only exit toll lane gates and install new license plate image capture cameras
- ● ● Retain toll lane gates in non-*E-ZPass* exit lanes

Modernizing the Ohio Turnpike's Toll Collection System



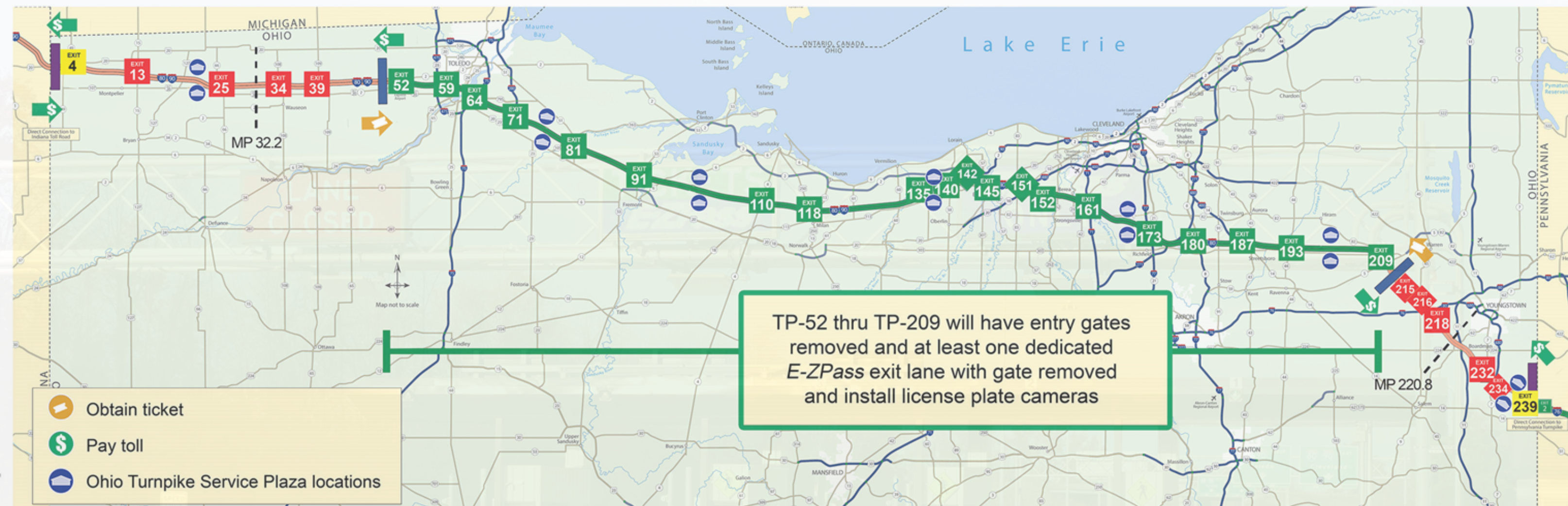
Multi-Protocol ETC Equipment in every Toll Lane and ORT Shoulders

Class 1 E-ZPass Trip Building required until January 1, 2024 (by law)

Vehicle Pre-Class and Post-Class at Barrier Plazas Conventional Lanes Only

Enhanced Digital Video Audit Coverage of every Lane & Shoulder

Modernizing the Ohio Turnpike's Toll Collection System



Automated Toll
Payment Machines
in 56 Conventional
Exit Lanes

Manual Toll
Collector
Equipment in all
Conventional Lanes

Integrated Real-Time
Credit Card Terminals
in each Conventional
Exit Lane

Long Combination
Vehicles
Pre-Registration
(E-ZPass Only)

Unique Engineering Items

Weigh-in-Motion Detection

- Highway Speed Mainline Locations
- Interface with OTIC Permitting System & OSHP

Automatic Traffic Counting

- Highway Speed Mainline Locations

Future OTIC Toll Facilities

Remote and Back Gates (96 locations)

- Access via Non-Revenue E-ZPass Transponders

Back Gate



Remote Gate



Vehicle Over-Height Detection

All Ticket System ORT
Entry, ORT Exit lanes
and Conventional
Entry Lanes

All Barrier System
ORT Exit Lanes and
Conventional Exit
Lanes

Vehicle height
greater than 13 ft –
6 in but lower than
14 ft – 0 in.

Vehicle height is
equal to or exceeds
14 ft – 0 in.

(Over Height
Permit
Required)

Gross Over
Height, Pull
Over Now)

Changeable Message Signs

The TCS Integrator shall provide and install new full matrix color Dynamic Message Signs in all Conventional Barrier Exit Lanes, Conventional Ticket Entry Lanes, and Conventional Ticket Exit Lanes.

The TCS Integrator shall supply and install a Patron Dynamic Message Sign in each Conventional Barrier Exit Lanes, Conventional Ticket Entry Lanes and Conventional Ticket Exit Lanes.

Preliminary Construction Schedule

2019														
Location	Project	Designer	Oct				Nov				Dec			
			7	14	21	28	4	11	18	25	2	9	16	23
TP 4	71-18-01 / 39-20-01 A&B (PR, ORT Lanes, Site)	GPD/Jacobs												
TP 4	71-19-09A / 58-21-01 (Toll Bldg./Plaza)	Prime AE												
TP 4	64-20-01 Toll System Installation/Testing	Integrator												
TP 49	71-18-02 / 39-20-02 A&B (PR, Site)	CT/Jacobs								Bidding 4 wks				
TP 49	71-19-09B / 58-20-01 (Toll Bldg./Plaza)	Jacobs												
TP 49	64-20-01 Toll System Installation/Testing	Integrator												
TP 211	71-18-03 / 39-20-03 A&B (PR, Site)	DLZ/Jacobs												
TP 211	71-19-09C / 58-21-02 (Toll Bldg./Plaza)	Prime AE												
TP 211	64-20-01 Toll System Installation/Testing	Integrator												
TP 239	71-18-04 / 39-21-01 (PR, ORT Lanes, Site)	Jacobs												
TP 239	71-19-09D / 58-22-01 (Toll Bldg./Plaza)	Prime AE												
TP 239	64-20-01 Toll System Installation/Testing	Integrator												
TP 64	71-19-07 / 58-21-03 (Add Entry Lane)	Arcadis												
TP 64	64-20-01 Toll System Installation/Testing	Integrator												
TP 152	71-19-07 / 58-21-04 (Add Exit Lane)	Arcadis												
TP 152	64-20-01 Toll System Installation/Testing	Integrator												
TP 52 - TP 140	71-19-07 / 64-21-01 TCS Construction	Arcadis												
	64-20-01 Toll System Installation/Testing	Integrator												
TP 142 - TP 209	71-19-07 / 64-21-02 TCS Construction	Arcadis												
	64-20-01 Toll System Installation/Testing	Integrator												

	Bidding
	Construction
CM	Commission Meeting
	Toll System Installation and Testing
	Toll System Commissioning

PR	Pavement Replacement
ORT Lanes	Open Road Tolling Lanes
TP	Toll Plaza
Site	Site Work
Conv.	Conventional

Preliminary Construction Schedule

[illegible]

	Bidding	PR	Pavement Replacement
	Construction	ORT Lanes	Open Road Tolling Lanes
CM	Commission Meeting	TP	Toll Plaza
	Toll System Installation and Testing	Site	Site Work
	Toll System Commissioning	Conv.	Conventional

Preliminary Construction Schedule

[illegible]

	Bidding	PR	Pavement Replacement
	Construction	ORT Lanes	Open Road Tolling Lanes
CM	Commission Meeting	TP	Toll Plaza
	Toll System Installation and Testing	Site	Site Work
	Toll System Commissioning	Conv.	Conventional

Preliminary Construction Schedule

		2022																																																																				
Location	Project	Jan					Feb				Mar				Apr				May					Jun				Jul				Aug					Sept				Oct					Nov				Dec																				
		3	10	17	24	31	7	14	21	28	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26																	
TP 4	71-18-01 / 39-20-01 A&B (PR, ORT Lanes, Site)	Winter Shutdown									39-20-01 A&B Construction Year 3 (9 Months)																																																											
TP 4	71-19-09A / 58-21-01 (Toll Bldg./Plaza)	58-21-01 Building Construction (13 Months)																																																															TCS GO-LIVE					
TP 4	64-20-01 Toll System Installation/Testing																												TP 4 (8 Conv. Lanes)					TP 4 ORT Lanes					Comm.																															
TP 49	71-18-02 / 39-20-02 A&B (PR, Site)																																																																					
TP 49	71-19-09B / 58-20-01 (Toll Bldg./Plaza)																																																																					
TP 49	64-20-01 Toll System Installation/Testing	TP 49 ORT Lanes																																																			Comm.																	
TP 211	71-18-03 / 39-20-03 A&B (PR, Site)	Winter Shutdown									39-20-03 A&B Construction Year 3 (9 Months)																																																											
TP 211	71-19-09C / 58-21-02 (Toll Bldg./Plaza)	58-21-02 Building Construction (13 Months)																																																															TCS GO-LIVE					
TP 211	64-20-01 Toll System Installation/Testing																														TP 211 (12 Conv. Lanes)					TP 211 ORT Lanes					Comm.																													
TP 239	71-18-04 / 39-21-01 (PR, ORT Lanes, Site)	Winter Shutdown									39-21-01 Construction Year 2 - Months (9 Months)																																																											
TP 239	71-19-09D / 58-22-01 (Toll Bldg./Plaza)																						58-22-01 Building Construction (11 Months)																									TCS GO-LIVE																						
TP 239	64-20-01 Toll System Installation/Testing																													TP 239 (5 Conv. Lanes)										Comm.																														
TP 64	71-19-07 / 58-21-03 (Add Entry Lane)	58-21-03 Construction (12 Months)																																																															TCS GO-LIVE					
TP 64	64-20-01 Toll System Installation/Testing																						TP 64 (8 Conv. Lanes)																Comm.																															
TP 152	71-19-07 / 58-21-04 (Add Exit Lane)	58-21-04 Construction (12 Months)																																																																TCS GO-LIVE				
TP 152	64-20-01 Toll System Installation/Testing																						TP 152 (5 Conv. Lanes)																Comm.																															
TP 52 - TP 140	71-19-07 / 64-21-01 TCS Construction	64-21-01 Construction (13 Months)																																																															TCS GO-LIVE					
	64-20-01 Toll System Installation/Testing	TP 52 to TP 140 (Conv. Lanes)																																											Comm.																									
TP 142 - TP 209	71-19-07 / 64-21-02 TCS Construction	64-21-02 Construction (13 Months)																																																											TCS GO-LIVE									
	64-20-01 Toll System Installation/Testing	TP 142 to TP 208 (Conv. Lanes)																																											Comm.																									

	Bidding	PR	Pavement Replacement
	Construction	ORT Lanes	Open Road Tolling Lanes
CM	Commission Meeting	TP	Toll Plaza
	Toll System Installation and Testing	Site	Site Work
	Toll System Commissioning	Conv.	Conventional

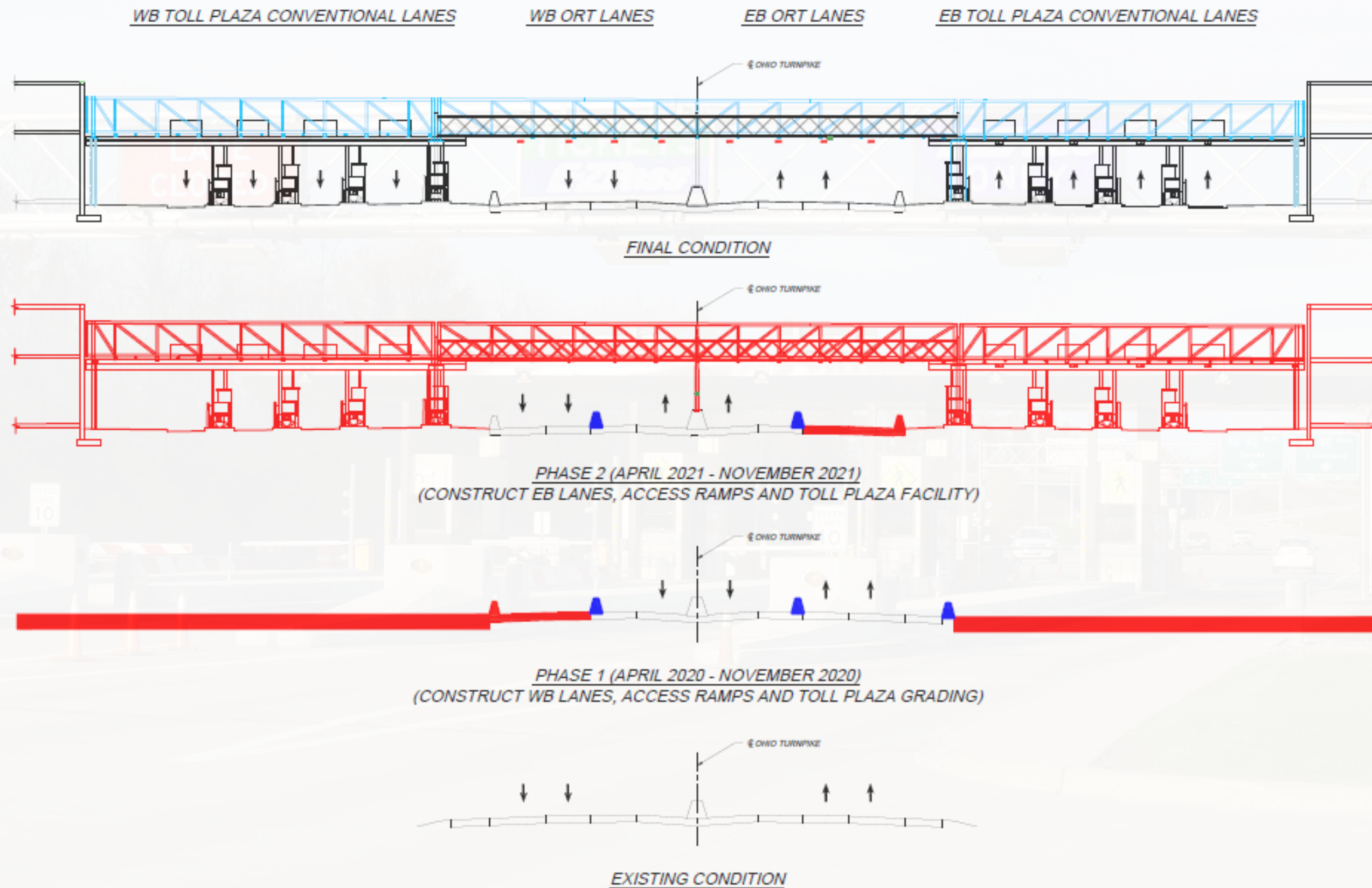
Preliminary Construction Schedule

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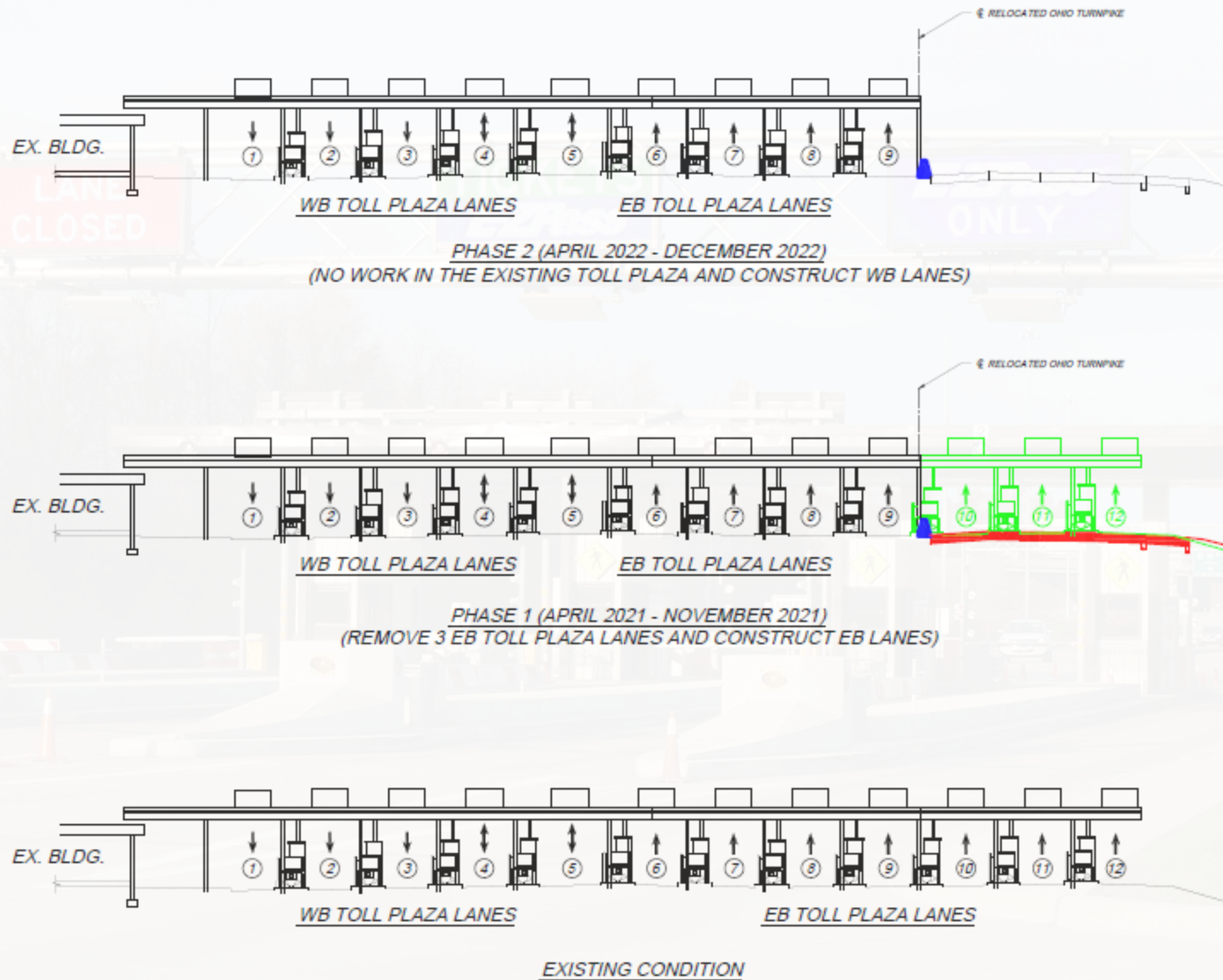
Bidding	PR	Pavement Replacement
Construction	ORT Lanes	Open Road Tolling Lanes
CM	TP	Toll Plaza
Toll System Installation and Testing	Site	Site Work
Toll System Commissioning	Conv.	Conventional

***Lane 5 at TP 239 will need to be commissioned again in 2023 due to construction of a new wide lane next to the ORT lanes.*

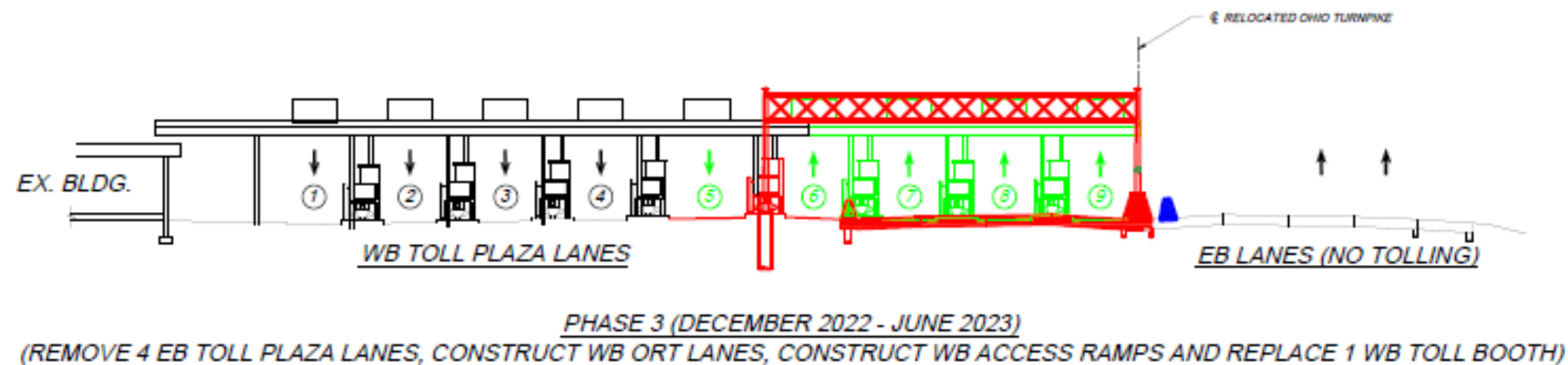
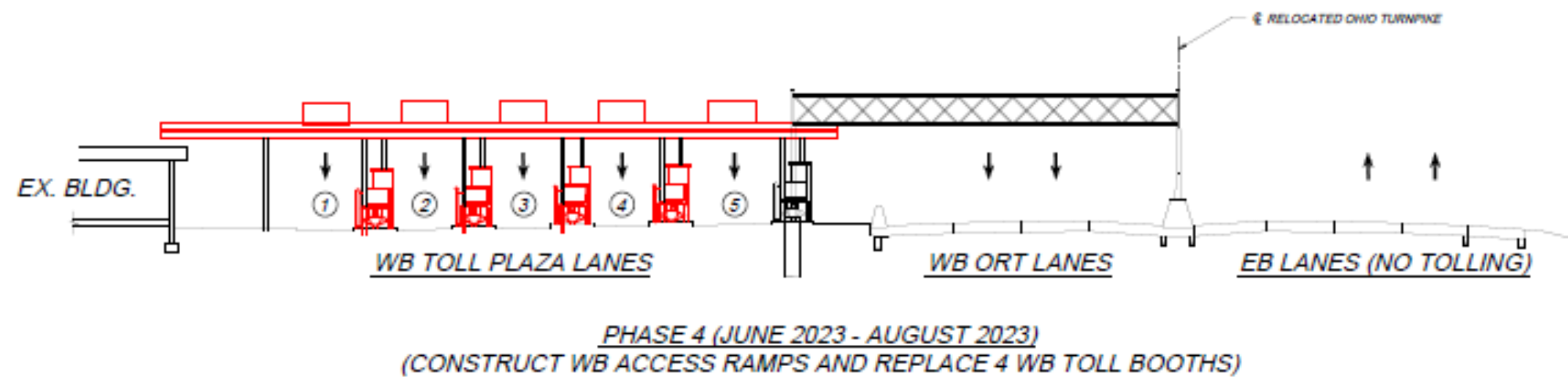
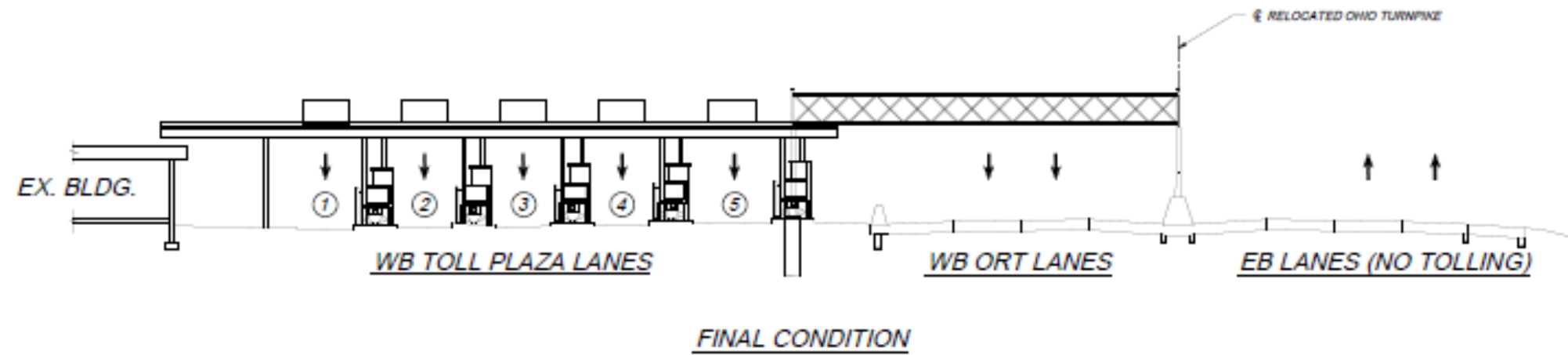
Toll Plaza 49 Construction Phasing



TP 239 Construction Phasing (Pre-Go Live)



TP 239 Construction Phasing (Post Go-Live)



TCS Installation vs. Construction Elements

Construction of any infrastructure required to install the new TCS must be bid by OTIC in conformance with Ohio's public improvement statutes. This requires such work to be awarded to the lowest responsive and responsible bidder, i.e. low bid.

OTIC is using a best-value approach to select a TCS Integrator. Hence, in their proposal, TCS Integrators shall provide enough design information for OTIC to be able to assess the amount of construction required to install the TCS Integrator's solution.

Any work that is considered construction must be conducted by third-party contractors hired by the OTIC. Physical wiring termination, connections and bolting will remain the responsibility of the TCS Integrator. The TCS Integrator will provide OTIC and their design engineer with the requirements for all TCS infrastructure items.

Examples of Construction Items

Conduit and Cabling: The TCS Integrator shall identify the number and type of conduit and cables required to install the TCS equipment. The conduit and cables will be procured and installed by a third-party contractor(s) and be terminated in a bundle for the TCS Integrator to connect the TCS equipment.

DATIMs and ATPMs: Any structural work required to install the DATIM and ATPMs such as removal of existing concrete, modification of toll booth or island, constructing a leveling and support pad shall be identified by the TCS Integrator and performed by a third-party contractor(s). The TCS Integrator shall then install the new DATIM and ATPMs.

Treadles and Loops: Any concrete work including removal of old concrete, concrete cutting, and new concrete required to install the treadles and loops shall be identified by the TCS Integrator and performed by a third-party contractor(s). The TCS Integrator shall then install the treadles and loops, including sealing the loop cuts.

Redline Plan Markups and Certified Construction Cost Estimate

Conceptual Layout of Equipment in each lane/location type

ORT Gantry Configuration Type (i.e. Dual, Single, etc.) and location

ORT Gantry Span Type (i.e. Full Span, Cantilever, etc.)

ORT Gantry Foundation Types

Pavement Requirements for ORT zone, WIM and Traffic Counting installation

ORT Toll Lane and Shoulder equipment infrastructure

Conventional Toll Lane equipment infrastructure

Camera mounting infrastructure

Equipment layout (overhead, in-pavement, side fire, etc.)

Conduit runs and size (power, communications)

\$50,000 stipend to Integrators who submit a compliant proposal

Questions?