

EXHIBIT 4C

**LEVEL 1
 TRANSPORTATION
 MANAGEMENT
 PLAN**

**SIGNIFICANT
 PROJECT**

Project Name:	Bridge Group 57T-10: Interstate 195 West/ Washington Bridge No. 700 - Phase 2	
RI Design Contract No(s):	2014-EB-003	
RI Construction Contract No(s):	2020-DB-022	
Municipalities:	CITY: Providence/East Providence COUNTY: Providence	
Submission:	Conceptual	Date: 29-Jun-2021

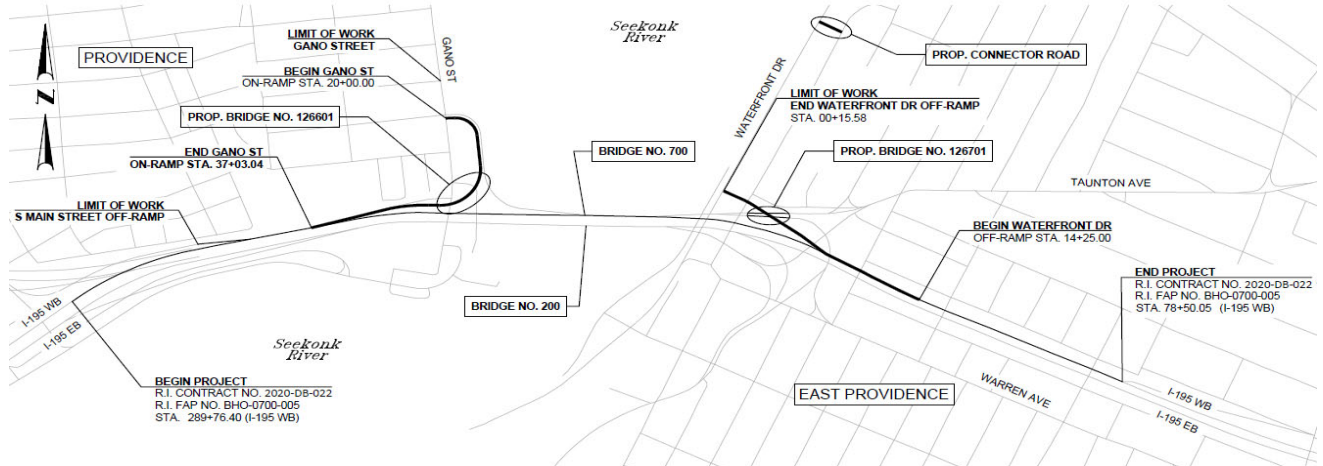


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TMP ROLES AND RESPONSIBILITIES

TMP Development Managers

Project design managers who oversee the development of this TMP

RIDOT
Name: Anthony M. Pompei, P.E., PMP
Title: Project Manager II
Unit: Division of Project Management
Office Phone: 401-265-4500
Mobile Phone:
E-Mail: anthony.pompei@dot.ri.gov

CONSULTANT
Name:
Title:
Company/Unit:
Office Phone:
Mobile Phone:
E-Mail:

TMP Implementation Managers

Project construction managers with the primary responsibility & authority for implementation of this TMP

RIDOT
Name: TBD*
Title:
Unit:
Office Phone:
Mobile Phone:
E-Mail:

CONTRACTOR
Name: TBD*
Title:
Company/Unit:
Office Phone:
Mobile Phone:
E-Mail:

TMP Implementation Task Leaders

Other parties responsible for completing specific transportation management tasks required by this TMP

NAME / TITLE (if individual is named)	COMPANY / UNIT	PHONE	E-MAIL
	RIDOT / TMC	401-222-5826	tmc_operations@dot.ri.gov
Task Description / Responsibilities:	To be contacted via RIDOT notification form (FAX to 222-4225 / 222-5640) min. 48 hours prior to the implementation of lane closures and detours. Will update RIDOT 511 system as necessary.		
	RIDOT / Communications	401-222-1362	webmaster@dot.ri.gov
Task Description / Responsibilities:	To be contacted via RIDOT notification form (FAX to 222-3905) min. 48 hours prior to the implementation of lane closures and detours. Will update/issue RIDOT travel advisories web site / news releases as necessary.		
	RIDOT / Customer Service	401-222-2450	CustomerService@dot.ri.gov
Task Description / Responsibilities:	To be contacted via RIDOT notification form (FAX to 222-5648) min. 48 hours prior to the implementation of lane closures and detours. If necessary, will assist in coordinating the strategies included in the Public Information Plan.		
Task Description / Responsibilities:			

TMP Implementation Task Leaders (continued)

NAME / TITLE (if individual is named)	COMPANY / UNIT	PHONE	E-MAIL
Task Description / Responsibilities:			
Task Description / Responsibilities:			
Task Description / Responsibilities:			

TMP Stakeholder Contacts

TMP Stakeholders to be consulted or coordinated with during the work

NAME / TITLE (if individual is named)	COMPANY / UNIT	PHONE	E-MAIL
Mr. William Bombard	City Engineer	City of Providence	401-467-7950
Role / Notification/Consultation Requirements:			Wbombard@providenceri.gov
Mr. Natale D. Urso	Traffic Engineer	City of Providence	401-467-7950
Role / Notification/Consultation Requirements:			Nurso@providenceri.gov
Mr. Erik Skadberg	City Engineer	City of East Providence	401-435-7500
Role / Notification/Consultation Requirements:			ESkadberg@cityofeastprov.com
Mr. Robert Walker	Superintendent	City of East Providence	401-435-7500
Role / Notification/Consultation Requirements:			rwalker@cityofeastprov.com
Role / Notification/Consultation Requirements:			
Role / Notification/Consultation Requirements:			

Emergency Service Contacts

Emergency service agencies/providers expected to be impacted by the project work zones

NAME / TITLE (if individual is named)	AGENCY / UNIT	PHONE	E-MAIL
Police Chief Hugh Clements	Police Chief	Providence Police Dept.	401 243-6401
Special Details / Requirements:			
Steven Pare'	Acting Fire Chief	Providence Fire Department	401 274-3348
Special Details / Requirements:			
Police Chief William Nebus	Police Chief	E. Providence Police Dept.	401-435-7600
Special Details / Requirements:			
Captain Kenneth Botelho	Fire Marshal	E. Providence Fire Dept.	401-435-7600
Special Details / Requirements:			
Special Details / Requirements:			
Special Details / Requirements:			

PROJECT INFORMATION

Brief Project Description

The Washington Bridge Rehabilitation and Redevelopment Project will consist of rehabilitation of the existing westbound superstructure of the Washington Bridge, and partial reconstruction of the adjacent ramp structures to the east and west of the Washington Bridge. Ramp reconstruction will include modifications to the Taunton Avenue WB On-ramp to I-195, Veterans Memorial Parkway WB On-ramp to I-195, I-195 WB Off-ramp to Gano Street, and replacement of Gano Street WB On-ramp to I-195 in a new and improved alignment. The Project also includes construction of a new I-195 Westbound Off-ramp to Waterfront Drive, providing direct access to the Henderson Bridge and the East Side. The construction of the new off-ramp will cause Valley Street to be closed permanently between Taunton Avenue and Warren Avenue.

A minimum of 4 (four) travel lanes will be maintained on the Washington Bridge at all times, along I-195 Westbound during reconstruction. The existing 5 (five) travel lanes along I-195 Eastbound will be maintained during reconstruction.

All on-/off-ramps, on both sides of the bridge will remain open during reconstruction, with exception of the I-195 Westbound Off-ramp to Gano Street, which will closed and/or partially closed to traffic during two stages of the construction (see Construction Staging, and Detour Plans for details).

The last phase of the Project will consist of repaving and restriping the limits of I-195 East and west, the on-/ off-ramps, and all approaches to remove all temporary pavement markings installed during construction.

General Work Limits

General Work Limits are as follows:

I-195 East and West (from Potter Street to Broadway) - Reconstruction of the median barrier.

I-195 West (Washington Bridge, from Broadway to Point Park Pedestrian Bridge) - Bridge rehab will take place in 6 stages:

- Stage 1A and 1B - Southern most lane of the Bridge
- Stage 2 - 2nd southern most lane of the Bridge
- Stage 3 - Center lane of the Bridge
- Stage 4A and 4B - Northern most lane of the Bridge
- Stage 5 - 2nd northern most lane of the Bridge

Ramps - Widening and realignment of ramps. The following ramps will be partially or completely closed (both short-term and/or long-term during construction (See Work Zone Locations):

- Taunton Avenue On-ramp to I-195 West
- Veterans Memorial Parkway On-ramp to I-195 West
- I-195 West Off-ramp to Gano Street
- Gano Street On-ramp to I-195 West

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
Interstate I-195 WB - Washington Bridge	Point Park Pedestrian Bridge	Broadway	1.3 mi
Interstate I-195 EB - Left Shoulder	Potter Street	Broadway	3000 ft
Taunton Avenue WB On-ramp to I-195	South Brow Street	Waterfront Drive	600 ft
Veterans Memorial Pkwy WB On-ramp to I-195	South Brow Street	Waterfront Drive	600 ft
I-195 WB Off-ramp to Gano Street	Ramp Gore Area	Schofield Street	300 ft
Gano Street WB On-ramp to I-195	Ramp Gore Area	Gano Street	300 ft
Valley Street	Warren Avenue	North Brow Street	2000 ft
Waterfront Drive	Warren Avenue	North Brow Street	2000 ft
Gano Street	East Transit Street	Wickenden Street	600 ft

General Project Schedule & Construction Sequence*

GENERAL PROJECT SCHEDULE

Design/Build NTP is tentatively scheduled for July 2021 and its construction is expected to be substantially complete by the end of 2025.

SUGGESTED SEQUENCE OF CONSTRUCTION

See Plans and Construction Sequence summary (attached to TMP) for proposed construction sequencing and lane configurations.

* At various times during construction, activities including but not limited to: site preparation, substructure related work, overhead and ground mounted sign installation, mobilization, and paving operations, will be taking place. Traffic Control Typical Details Plan and Detour Plans shall be used as traffic control for these activities.

**Any variation to this suggested sequence of construction shall be approved by RIDOT.

MILESTONES/COMPLETION DATES

To be provided once Construction Schedule with the Contractor's Sequence of Construction has been submitted and accepted by RIDOT.

Ramp Closures

- Veterans Memorial Parkway (Ramp DR-2): 1 day
- Taunton Avenue (Ramp M): 1 day
- Gano Street Off-Ramp: 62 days

See Construction Sequence Summary for details.

*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

OTHER ACTIVITIES IN PROJECT VICINITY WITH POTENTIAL FOR CAUSING SIGNIFICANT CUMULATIVE IMPACTS	
ACTIVITY	DETAILS / DATES / LOCATIONS
I-95 Providence Viaduct Northbound	Upstream location/2020-2025 /I-95
Henderson Bridge	Adjacent detour routes/2020-2024/Henderson Bridge
Washington Bridge Toll Gantry Installation	Installation of toll gantry at the west end of the project, between the existing VMS sign and the India Point Pedestrian Bridge

TRAFFIC CONDITIONS PRIOR TO START OF WORK

Traffic Data

GENERAL TRAFFIC DATA

	<u>AADT</u>	<u>Posted Speed</u>	<u>%HV</u>	<u>K Value</u>	<u>DHV</u>
I-195 Westbound (Washington Bridge)	96500	50 MPH	5%	8.1%	7860
I-195 Eastbound (Washington Bridge)	107500	45 MPH	4%	9.6%	10270
I-195 WB Off-ramp to Gano Street	3400	25 MPH	3%	4.7%	160
Gano Street WB On-ramp to I-195	10300	NA	4%	4.2%	430
Taunton Avenue WB On-ramp to I-195	13600	20 MPH	3%	8.5%	1160
Veterans Memorial PKWY WB On-ramp to I-195	11500	40 MPH	3%	9.5%	1090
Broadway WB On-ramp to I-195	6300	NA	3%	7.5%	470
Pawtucket Avenue WB On-Ramp to I-195	10800	NA	3%	6.9%	740

Existing queue lengths have been estimated with VISSIM (provided with proposal) and will be summarized in a appendix to the Final TMP once NTP is provided.

Intersection Control

Major intersections that are directly or indirectly impacted by the project are listed below. Any available data (signal inventory, traffic counts, etc.) can be provided upon request of the TMP Implementation Manager. All intersections listed below operate under signal control, unless otherwise noted.

MAJOR INTERSECTIONS IMPACTED BY CONSTRUCTION:

- Summit Street at Taunton Avenue (unsignalized)
- Walnut Street/Porter Street at Taunton Avenue (unsignalized)
- Valley Street at Taunton Avenue (unsignalized)
- Trenton Street/Gano Street WB Off-ramp at Gano Street
- Gano Street at Gano Street WB On-ramp (unsignalized)
- South Main Street WB Off-ramp at Pike Street (unsignalized)

MAJOR INTERSECTIONS IMPACTED BY DETOUR ROUTES:

Taunton Avenue WB On-ramp to I-195 Closure Detour: Short-Term Closure

- Pawtucket Avenue at Taunton Avenue
- Waterman Avenue at Pawtucket Avenue
- Pawtucket Avenue WB On-ramp at Pawtucket Avenue (unsignalized)
- Taunton Avenue/Waterman Avenue at Broadway
- John Street at Waterman Avenue (unsignalized)
- John Street at Taunton Avenue (unsignalized)
- Broadway WB Off-ramp/WB On-ramp at Broadway
- Warren Avenue at Waterfront Drive (unsignalized)
- Veterans Memorial Parkway WB On-ramp at Warren Avenue (unsignalized)

Veterans Memorial Parkway WB On-ramp to I-195 Closure Detour - Potential Temporary Closure

- Veterans Memorial Parkway at Pawtucket Avenue
- Wampanoag Trail at Pawtucket Avenue
- Warren Avenue at Pawtucket Avenue
- Pawtucket Avenue WB On-ramp at Pawtucket Avenue (unsignalized)
- Veterans Memorial Parkway at South Broadway (unsignalized)
- Warren Avenue at South Broadway
- Broadway WB Off-ramp/WB On-ramp at Broadway
- Mauran Avenue at Veterans Memorial Parkway (unsignalized)
- Burgess Avenue at Mauran Avenue (unsignalized)
- Burgess Avenue at Warren Avenue (unsignalized)
- Lyon Avenue at Warren Avenue
- Warren Avenue at South Broadway

I-195 WB Off-ramp to Gano Street Closure Detour

- South Main Street WB Off-ramp at Pike Street (unsignalized)
- Pike Street at South Water Street (unsignalized)
- South Water Street at India Street (unsignalized)
- Gano Street/India Street EB Off-ramp at India Street
- India Street at Gano Street (unsignalized)

Crash Data

Location	Total Crashes	Fatal (K)	Serious Injury (A)	Injury (B)	Suspected Injury	PDO(O)
I-195 WB within project limits	475	0	0	5	92	378
I-195 EB within project limits	236	0	0	4	45	187

Location	Total Crashes	Rear End	Sideswipe	Single Vehicle	Other
I-195 WB within project limits	475	364	92	18	1
I-195 EB within project limits	236	140	70	26	0

Majority of the crashes are resulting from congestion, weaving and relative short distance between ramps.

Source: RIDOT Crash Data (2016-2019)

Local Community Issues and Concerns

To be provided after public meeting/stakeholder meeting feedback.

All work including, but not limited to, detours, lane closures, parking restrictions, traffic signal timing adjustments, and flaggers/police details shall be coordinated with the stakeholders. Stakeholders shall include the Cities of Providence and East Providence DPW, City Engineer, Traffic Engineer, Police Chief, Fire Chief/Marshal, Parking Administrator, Emergency Responders, etc., and all other impacted business owners/property owners.

EXPECTED TRAFFIC CONDITIONS DURING THE WORK

Traffic Data

Projected travel delays and vehicle queues have been estimated for all stages of construction listed in this TMP based on the preliminary VISSIM microsimulation and SYNCHRO models. Public awareness campaign should be implemented during each stage of construction to reduce peak hour traffic volumes by encouraging the use of alternate routes and adjusting commuting times. VISSIM and SYNCHRO models have been provided as part of the proposal submission. Documentation will be provided as part of the Final TMP submission after Notice to Proceed.

Staging Overview

Stage 1A/1B

I-195 West Lane Restrictions – Stage 1A consists of installation of a new attenuator at the Gano Street Off-Ramp. There will be no lane restrictions. Stage 1B consists of work on the high-speed lane (Lane 1) on Washington Bridge, construction of the new Waterfront Drive Off-Ramp, and reconstruction of median barrier. There will be the following restrictions:

- I-195 West Approach to Washington Bridge: No lane restrictions. Additional 4th lane provided between Broadway which will drop near Potter Street overpass.
- Washington Bridge: Restricted from 5 lanes to 4 lanes. 3 lanes from I-195 West and 1 lane from Taunton Ave/Vets Memorial Parkway ramps. Taunton Avenue and Vets Memorial Parkway will merge (Vets Memorial Parkway on YIELD) prior to merging with I-195.
- During allowable work hours listed in the General Restrictions Chart. These restrictions are based on traffic volumes provided in the RFP and are based on the 1,600 vehicles/lane/hour threshold set in the RFP.

Ramp Closures - Stage 1B includes the following ramp closures:

- Taunton Avenue - 1-day closure to tie in realigned ramp
- Vets Memorial Parkway Avenue - 1-day closure to tie in realigned ramp
- Gano Street - None

Stage 2

I-195 West Lane Restrictions - Stage 2 consists of work on Lane 2 on Washington Bridge and construction of the new Waterfront Drive Off-Ramp. There will be the following restrictions:

- I-195 West Approach to Washington Bridge: No lane restrictions. Additional 4th lane provided between Broadway which will drop near Potter Street overpass.
- Washington Bridge: Restricted from 5 lanes to 4 lanes. 3 lanes from I-195 West and 1 lane from Taunton Ave/Vets Memorial Parkway ramps. Taunton Avenue and Vets Memorial Parkway will merge (Vets Memorial Parkway on YIELD) prior to merging with I-195.
- During allowable work hours listed in the General Restrictions Chart. These restrictions are based on traffic volumes provided in the RFP and are based on the 1,600 vehicles/lane/hour threshold set in the RFP.

Ramp Closures - Stage 2 includes the following ramp closures:

- Taunton Avenue - None
- Vets Memorial Parkway Avenue - None
- Gano Street - None

Stage 3

I-195 West Lane Restrictions - Stage 3 consists of work on Lane 3 on Washington Bridge. There will be the following restrictions:

- I-195 West Approach to Washington Bridge: No lane restrictions. Additional 4th lane provided between Broadway which will drop at the new Waterfront Drive off-ramp.
- Washington Bridge: Restricted from 5 lanes to 4 lanes. 3 lanes from I-195 West and 1 lane from Taunton Ave/Vets Memorial Parkway ramps. Taunton Avenue and Vets Memorial Parkway will merge (Vets Memorial Parkway on YIELD) prior to merging with I-195.
- During allowable work hours listed in the General Restrictions Chart. These restrictions are based on traffic volumes provided in the RFP and are based on the 1,600 vehicles/lane/hour threshold set in the RFP.

Ramp Closures - Stage 3 includes the following ramp closures:

- Taunton Avenue - None
- Vets Memorial Parkway Avenue - None
- Gano Street - None

I-195 West Lane Restrictions - Stage 4A/4B consists of work on the low speed lane (Lane 5) on Washington Bridge and construction of relocated Gano Street on-ramp. There will be the following restrictions:

- I-195 West Approach to Washington Bridge: No lane restrictions. Additional 4th lane provided between Broadway which will drop at the new Waterfront Drive off-ramp.
- Washington Bridge: Restricted from 5 lanes to 4 lanes. 3 lanes from I-195 West and 1 lane from Taunton Ave/Vets Memorial Parkway ramps. Taunton Avenue and Vets Memorial Parkway will merge (Vets Memorial Parkway on YIELD) prior to merging with I-195.
- During allowable work hours listed in the General Restrictions Chart. These restrictions are based on traffic volumes provided in the RFP and are based on the 1,600 vehicles/lane/hour threshold set in the RFP.

Ramp Closures - Stage 4A includes the following ramp closures:

- Taunton Avenue - None
- Vets Memorial Parkway Avenue - None
- Gano Street - Ramp will be closed for 62 days of the total duration of the stage.

No ramp closures are needed for Stage 4B

Stage 5

I-195 West Lane Restrictions - Stage 5 consists of work on Lane 4 on Washington Bridge and construction of relocated Gano Street on-ramp. There will be the following restrictions:

- I-195 West Approach to Washington Bridge: No lane restrictions. Additional 4th lane provided between Broadway which will drop at the new Waterfront Drive off-ramp.
- Washington Bridge: Restricted from 5 lanes to 4 lanes. 3 lanes from I-195 West and 1 lane from Taunton Ave/Vets Memorial Parkway ramps. Taunton Avenue and Vets Memorial Parkway will merge (Vets Memorial Parkway on YIELD) prior to merging with I-195.
- During allowable work hours listed in the General Restrictions Chart. These restrictions are based on traffic volumes provided in the RFP and are based on the 1,600 vehicles/lane/hour threshold set in the RFP.

Ramp Closures - Stage 5 includes the following ramp closures:

- Taunton Avenue - None
- Vets Memorial Parkway Avenue - None
- Gano Street - Ramp will be open but traffic will be restricted from I-195 West due to work zone along Lane 4.

Primary and secondary detour routes were identified and proposed operations were preliminary analyzed. The primary detour route will be signed and monitored. Any secondary detour routes listed will be monitored only. Signal timing adjustments will be made real-time once the detours are in place and continually monitored for performance. See attached Traffic Signal Field Inventory graphic for a list of intersections to be monitored. Existing operational deficiencies have been flagged for RIDOT and City of Providence/East Providence to address prior to detours.

Operations

I-195 West - Based on a preliminary VISSIM analysis, queues will extend to Exit 1 in Massachusetts. This queue is comparable for the staging listed in the BTC and our proposed staging as both alternatives provide same number of lanes/weaving distance, etc.

Local Roads - Signal timings for all intersections shown in the attached Traffic Signal Inventory graphic will be fine-tuned. Broadway intersections with Warren Avenue and I-195 West ramps will be coordinated using GPS units to mitigate queues from extending between these closely spaced intersections.

Anticipated Demands from Other Activities in Vicinity of Project

To be provided after public meeting/stakeholder meeting feedback. Stakeholders include, but are not limited to the following:

-Other Events (see Cities of Providence and East Providence Event Schedules and coordinate with Cities' DPW, City Engineer, Traffic Engineer, Police Chief, Fire Chief/Marshal, Parking Administrator, Emergency Responders, etc.)

TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions

See attached tables (Attachments A-K) entitled "Minimum Number of Lanes & Shoulders to Remain Open to Traffic". Road closures, partial road closures, sidewalk closings, or any kind of road obstruction on City streets (Local Roads) shall be coordinated with the City DPW and Traffic Engineer. These restrictions were based on hourly traffic volumes as shown in Attachment M.

At no time during construction shall the number of travel lanes or the width of travel lanes on I-195 be reduced to less than existing conditions unless specified in Attachments to the TMP or as approved by RIDOT.

When it is necessary to close or restrict a ramp within project limits, the closure or restriction will only be allowed during time periods as specified in attachments to the TMP.

Any unauthorized (i.e. without written approval from the RIDOT) restrictions of a travel lane or shoulder (even for short-term deliveries or access) or unauthorized durations in excess of the requirements listed in the General Restrictions Charts included as an attachment to the TMP shall be subject to penalties specified in Part 2 of the RFP.

In accordance with TAC - 0350, "All full closures, splits, or shifts shall be scheduled to begin on Friday or Saturday night as determined by the TMP to allow motoring public time to adjust to new travel patterns while allowing RIDOT the opportunity to evaluate its success. Construction work can commence on the Monday following the evaluation period."

Any exceptions to this Lane Closure/Lane Split Coordination Policy must be approved by the Senior Management of Department.

Holiday Restrictions

During the Holiday Restrictions noted below, no deliveries of materials and/or equipment that impact traffic on adjacent roadways shall occur, unless approved in advance by RIDOT. No lane and/or shoulder closures allowed after 13:00 on the Friday preceding a holiday weekend.

EASTER SUNDAY

No lane and/or shoulder closures allowed on Saturday.

No Lane and/or shoulder closures allowed on Sunday until 22:00 (after 22:00 General Restrictions shall apply).

NEW YEAR'S DAY, INDEPENDENCE DAY & CHRISTMAS DAY

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on the holiday.

VETERANS DAY

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on Veterans Day until 22:00 (after 22:00 General Restrictions shall apply).

DR. MARTIN LUTHER KING JR., MEMORIAL DAY, VICTORY DAY, LABOR DAY, & COLUMBUS DAY

No lane and/or shoulder closures allowed on Saturday and Sunday.

No lane and/or shoulder closures allowed on Monday until 22:00 (after 22:00, General Restrictions shall apply).

THANKSGIVING DAY

No lane and/or shoulder closures allowed after 13:00 on the Wednesday preceding Thanksgiving Day.

No lane and/or shoulder closures allowed on Thanksgiving Day.

No lane and/or shoulder closures allowed on Friday, Saturday, and Sunday.

TEMPORARY TRAFFIC CONTROL PLANS

These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project

RIDOT-DEVELOPED TYPICAL TTC PLANS		Included in:	
	TMP	Plan Set	
<input type="checkbox"/> Work Beyond the Shoulder	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Shoulder Work with Minor Encroachment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Typical One-Lane Closure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Mobile Operation on I-195	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Partial Ramp Closure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> One-Lane Closure with Alternating Traffic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Shoulder Work with Minor Encroachment & Sidewalk Closure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Others (list) -	<input type="checkbox"/>	<input type="checkbox"/>	

These Designer-Developed TTC Plans will be used as a conceptual detour and construction staging plans during the work on this project. The Design Build Entity shall be responsible for developing plans that meet standard (RIDOT, AASHTO, MUTCD, etc.) design criteria.

DESIGNER-DEVELOPED TTC PLANS		Included in:	
	TMP	Plan Set	
Stage 1A Construction - Plans 1-4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stage 1B Construction - Plans 1-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stage 2 Construction - Plans 1-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stage 3 Construction - Plans 1-5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stage 4A Construction - Plans 1-5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stage 4B Construction - Plans 1-2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stage 5 Construction - Plans 1-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Taunton Avenue WB On-ramp to I-195 Detour Plan - Plan 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Veterans Memorial Parkway WB On-ramp to I-195 Detour Plan - Plans 1-2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
I-195 WB Off-ramp to Gano Street Detour Plan - Plan 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
East Bay Bike Path Detour Plan - Plan 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Gano Street On-Ramp Detour Plan - Plan 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

TRANSPORTATION OPERATIONS PLAN

These strategies will be used to provide improved transportation operations/safety within project work zones

Corridor/Network Management Strategies

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
Signal timing/coordination improvements	The signalized intersections along the detour routes (listed under "TRAFFIC CONDITIONS PRIOR TO START OF WORK" section of this TMP) will be monitored during the active detour and fine tuned/modified to reflect the change in traffic distribution caused from the detour if necessary.

Work Zone Safety Management Strategies

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
Speed limit reduction/variable speed limits	To be implemented as shown on the Traffic Control and Detour Plans.
Temporary traffic barrier	To be implemented as shown on the Traffic Control and Detour Plans.
Crash attenuators	To be implemented as shown on the Traffic Control and Detour Plans.
Project safety task force/committee	RIDOT to form safety task force/committee to address safety within the Work Zone and adjacent roadway network during all phases on construction. This committee may perform/solicit Road Safety Audits of the Work Zones (see Road Safety Audit Performance Monitoring Strategy).

Traffic/Incident Management & Enforcement Strategies

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
Tow/freeway service patrol	The wrecker is intended to be strategically positioned within the work zone to facilitate rapid removal of disabled vehicles during times as determined by RIDOT. See Contract Specific Documents for details.
Establish available local detour routes	To be implemented as shown on the Traffic Control Detour plans.
RIDOT Transportation Management Center	RIDOT TMC Operators, using existing CCTV cameras, will coordinate and manage traffic and incidents in and around the project work zones.
Incident/emergency response plan	Included in the "Incident Response Plan" shall be details on public/agency notifications, incident management, how the safety of motorists will be insured, handling of hazardous waste, coordination with law enforcement and other appropriate agencies, traffic control, submission of incident reports, the establishment and maintenance of detour routes when needed for closure of the interstate and primary roads, emergency repairs, removal of debris, and evacuation response. The Contractor shall be responsible for all aspects of traffic control related to an incident, including, but not limited to, the entire detour route off the corridor(s) covered by this contract onto other state roads or non-state roads. The Contractor shall notify the RIDOT within 24 hours of all roadway closures exceeding one hour and re-openings, or major incidents upon occurrence. Incident management responsibilities shall commence with the start of contract time and shall continue for the duration of the contract.

Demand Management Strategies

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
Variable work hours	RIDOT to encourage variable work hours during key phases in construction as needed. Encouragement can be disseminated through various Public Awareness Strategies listed in this TMP.

PERFORMANCE MONITORING PLAN

General Monitoring Requirements

The **Contractor's TMP Implementation Manager** is responsible for keeping the portion of the project being used by public traffic in a condition that (1) safely and adequately accommodates such traffic and (2) is in accordance with the Traffic-Related Work Restrictions, the Temporary Traffic Control Plans, and where appropriate, the other transportation management strategies identified above.

The **RIDOT TMP Implementation Manager** or his/her responsible designee should (1) inspect the project work zones at initial setup, at the start of each subsequent work day, and just prior to extended breaks in the work (e.g., weekends) for conformance with the Temporary Traffic Control Plans, the *ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features*, and where applicable, the other transportation management strategies identified above and (2) document all work zone-related feedback and complaints that are received from the public.

Project-Specific Performance Monitoring Strategies

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
Team meetings	The RIDOT TMP Implementation Manager will meet with the Construction Management Chief, the State Traffic Engineer, and the Traffic Management Chief on a regular basis to discuss and assess the safety and mobility impacts of the project work zones to date. At these meetings, attendees will discuss how well the TMP is managing the project impacts and will verify that all appropriate stakeholders and project officials have been receiving timely notifications where required.
Surveillance: Traffic counts	Traffic counts will be collected by RIDOT within the Work Zone and on the immediate approaches.
Surveillance: Travel times	Travel times through the Work Zone will be collected by RIDOT at various phases of construction. These travel times will be compared to existing and projected travel times. Adjustments to construction set-ups may be necessary if travel times are deemed extensive by RIDOT.
Surveillance: Traffic queues/delays	Traffic queues/delays through the Work Zone and on the approaches to the Work Zone will be collected by RIDOT at various phases of construction. This data will be compared to existing and projected queues/delays. Adjustments to construction set-ups may be necessary if the queues/delays are deemed extensive by RIDOT.
Surveillance: Crash data	Crash data within the Work Zone and on the immediate approaches will be collected by a non-RIDOT party. This data will be used as part of the Assessment: Safety Performance Strategy listed below.
Road safety audits (construction)	The Project safety task force/committee will perform a Work Zone Road Safety Audit (RSA) in the Project Work Zone. An RSA may be performed at various phases of construction as necessary. If a safety issue is identified as part of the RSA, RIDOT may require a change in the construction phasing set-up.
Assessment: Safety	RIDOT will formally assess and document safety impacts of the Work Zones. Before and after crash data within the Work Zone to be collected as part of this effort.

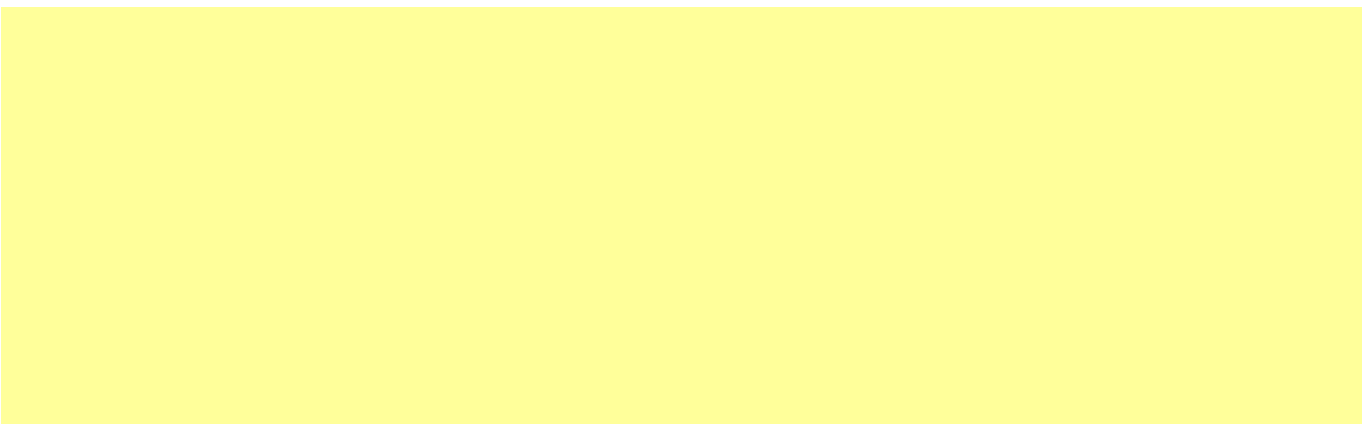
CHANGES TO TMP & CONTINGENCY PLANS

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, the Administrator of Project Management, the TMP Development and/or Implementation Manager(s), the Chief Engineer, and/or other interested parties as appropriate and/or necessary to consider and determine whether revised and/or alternate strategies should be implemented in an effort to lessen the adverse safety and/or mobility impacts of the project. If the supervisor / manager deems that strategy changes should be implemented, the changes shall be documented in a revised version of the TMP and the Administrator of Project Management, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

If a significant deviation from any of the strategies included in the TMP is requested by the Contractor, unless directed otherwise by the RIDOT the Contractor is responsible for preparing and submitting to the RIDOT TMP Implementation Manager appropriate documentation (e.g., design calculations, analysis reports, Temporary Traffic Control Plans, etc.) showing that the requested change(s) are (1) feasible and (2) expected to result in safety and mobility impacts that are no more adverse than the impacts resulting from the strategies already included in the latest approved TMP. The RIDOT will review and consider the submittal(s) as described in the preceding paragraph and will determine whether the changes should be implemented. If the requested changes are approved by the RIDOT, unless otherwise directed by the RIDOT the Contractor shall prepare and submit to the RIDOT TMP Implementation Manager a revised version of the latest approved TMP in both printed and electronic (Microsoft® Excel) format that documents all of the approved changes. Work to implement the changes shall not begin until the Administrator of Project Management, the State Traffic Engineer, and the Chief Engineer have approved of the revised TMP.

When unexpected events (e.g., crashes, inclement weather, unforeseen traffic demands, etc.) occur in a project work zone where one or more lanes are closed, the RIDOT TMP Implementation Manager or his/her responsible designee should (1) determine whether or not the lane closure(s) can/should be removed in order to improve traffic operations and/or minimize delays and (2) if deemed appropriate, take action to remove the lane closure(s).

Project Specific Contingencies



TMP APPROVALS

All approvals must be obtained prior to start of work

ADMINISTRATOR OF PROJECT MANAGEMENT		
Signature: Lori Fissette		
Date: _____		

STATE TRAFFIC ENGINEER		
Signature: Steven Pristawa, P.E.		
Date: _____		

CHIEF ENGINEER		
Signature: Robert Rocchio, P.E.		
Date: _____		

Revision #	Initials	Date

Revision #	Initials	Date

Revision #	Initials	Date

LIST OF ATTACHMENTS

Attachment A - General Restrictions: Interstate 195 Eastbound between India Point Park Pedestrian Bridge and Broadway

Attachment B - General Restrictions: Gano Street Off-Ramp from Interstate 195 Westbound

Attachment C - General Restrictions: Veterans Memorial Parkway On-Ramp to Interstate 195 Westbound

Attachment D - General Restrictions: Interstate 195 Westbound between Broadway and Washington Bridge

Attachment E - General Restrictions: Interstate 195 Westbound between Washington Bridge and Gano Street On-Ramp

Attachment F - General Restrictions: Interstate 195 Westbound between Gano Street On-Ramp and South Main Street

Attachment G - General Restrictions: Taunton Avenue On-Ramp to Interstate 195 Westbound

Attachment H - General Restrictions: Gano Street

Attachment I - General Restrictions: Waterfront Drive

Attachment J - General Restrictions: Shared Use Path between Gano Street Off-Ramp and India Point Park

Attachment K - General Restrictions: Gano Street On-Ramp to Interstate 195 Westbound

Attachment L - Traffic Signal Inventory

Attachment M - Houly Traffic Volume Summary

**Attachment A to TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location			MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}						
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Interstate 195 Eastbound between India Point Park Pedestrian Bridge and Broadway	0:00	6:00	L SCL	L SCL	L SCL	L SCL	L SCL	L SCL	L SCL
	6:00	21:00	L SCL	L SCL	L SCL	L SCL	L SCL	L SCL	L SCL
	21:00	0:00	L SCL	L SCL	L SCL	L SCL	L SCL	L SCL	L SCL

LEGEND

ALL	All travel lanes and shoulders shall remain open to traffic
L SCL	Left Shoulder Closure

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment B to TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location			MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}						
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Gano Street Off-Ramp from Interstate 195 Westbound	0:00	6:00	1L	1L	1L	1L	1L	1L	1L
	6:00	21:00	1L	1L	1L	1L	1L	1L	1L
	21:00	0:00	1L	1L	1L	1L	1L	1L	1L

LEGEND

1L A minimum of one 11-foot thru travel lane shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

Attachment C TMP for RIC 2020-DB-022

Washington Bridge North No. 700

Location	Time of Day		MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}						
	From	To	Day of Week						
			SUN	MON	TUES	WED	THURS	FRI	SAT
Veterans Memorial Parkway On-Ramp to Interstate 195 Westbound	0:00	6:00	1L	1L	1L	1L	1L	1L	1L
	6:00	21:00	1L	1L	1L	1L	1L	1L	1L
	21:00	0:00	1L	1L	1L	1L	1L	1L	1L

LEGEND

1L A minimum of one 14-foot travel lane and two 2-foot shoulders shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

Attachment D to TMP for RIC 2020-DB-022

Washington Bridge North No. 700

Location	Time of Day		MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}							
	From	To	Day of Week							
			SUN	MON	TUES	WED	THURS	FRI	SAT	
Interstate 195 Westbound between Broadway and Washington Bridge	0:00	6:00	4L	3L	3L	3L	3L	3L	3L	4L
	6:00	21:00	4L	4L	4L	4L	4L	4L	4L	4L
	21:00	0:00	3L	3L	3L	3L	3L	3L	4L	4L

LEGEND

4L	A minimum of four 11-foot thru travel lanes shall remain open to traffic
3L	A minimum of three 11-foot thru travel lanes shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment E to TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Interstate 195 Westbound between Washington Bridge and Gano Street On-Ramp	0:00	6:00	4L	3L	3L	3L	3L	3L	4L
	6:00	21:00	4L	4L	4L	4L	4L	4L	4L
	21:00	0:00	3L	3L	3L	3L	3L	4L	4L

LEGEND

4L	A minimum of four 11-foot thru travel lanes shall remain open to traffic
3L	A minimum of three 11-foot thru travel lanes shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment F to TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Interstate 195 Westbound between Gano Street On-Ramp and South Main Street	0:00	6:00	5L	4L	4L	4L	4L	4L	5L
	6:00	21:00	5L	5L	5L	5L	5L	5L	5L
	21:00	0:00	4L	4L	4L	4L	4L	5L	5L

LEGEND

5L	A minimum of five 11-foot thru travel lanes shall remain open to traffic
4L	A minimum of four 11-foot thru travel lanes shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment G TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Taunton Avenue On-Ramp to Interstate 195 Westbound	0:00	6:00	1L	1L	1L	1L	1L	1L	1L
	6:00	21:00	1L	1L	1L	1L	1L	1L	1L
	21:00	0:00	1L	1L	1L	1L	1L	1L	1L

LEGEND

1L A minimum of one 11-foot thru travel lane shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment H TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location	Time of Day		MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2,3}							
	From	To	Day of Week							
			SUN	MON	TUES	WED	THURS	FRI	SAT	
Gano Street	0:00	6:00	1L ALT	1L ALT	2L	2L	2L	2L	2L	1L ALT
	6:00	21:00	1L ALT	2L	2L	2L	2L	2L	2L	1L ALT
	21:00	0:00	1L ALT	2L	2L	2L	2L	2L	1L ALT	1L ALT

LEGEND

1L ALT	A minimum of one 11' thru travel lane in alternating directions of travel shall remain open to traffic
2L	A minimum of two 11' travel lanes, one in each direction, shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
3. A maximum of two weekends of 1 lane alternating traffic will be allowed and shall be coordinated with RIDOT prior to implementation. A minimum of 2L shall remain open at all other times.

**Attachment I TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Waterfront Drive	0:00	6:00	2L	2L	2L	2L	2L	2L	2L
	6:00	21:00	2L	2L	2L	2L	2L	2L	2L
	21:00	0:00	2L	2L	2L	2L	2L	2L	2L

LEGEND

2L A minimum of two 11' travel lanes, one in each direction, shall remain open to traffic

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment J TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Shared Use Path between Gano Street Off-Ramp and India Point Park	0:00	6:00	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR
	6:00	21:00	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR
	21:00	0:00	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR

LEGEND

DETOUR A full closure of shared use path allowed. Detour shall be implemented.

NOTES

1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

**Attachment K TMP for RIC 2020-DB-022
 Washington Bridge North No. 700**

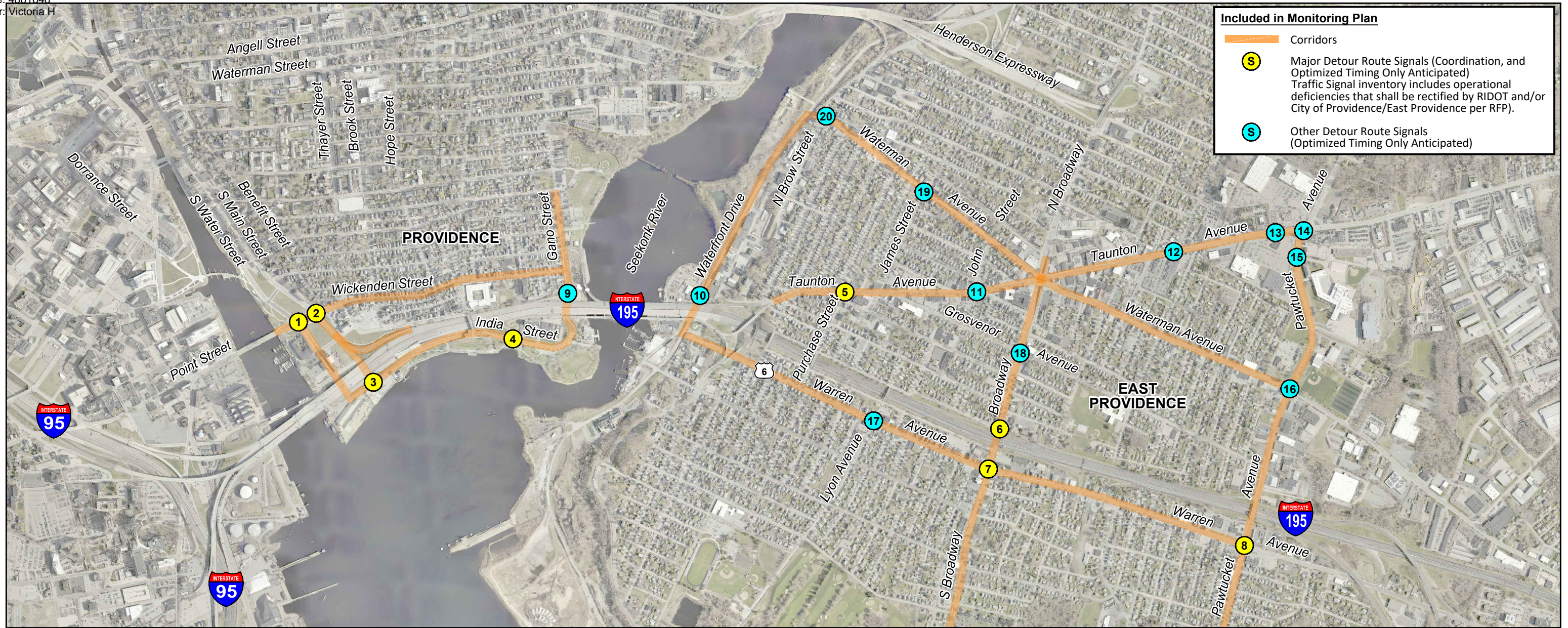
Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Gano Street On-Ramp to Interstate 195 Westbound	0:00	6:00	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³
	6:00	21:00	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³
	21:00	0:00	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³	DETOUR ³

LEGEND

DETOUR³ A full closure of on-ramp allowed. Detour shall be implemented.

NOTES

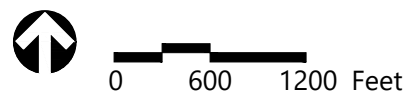
1. The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
2. The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
3. Ramp closure with detour will only be allowed for final roadway tie-in as needed and shall be coordinated with RIDOT prior to implementation. A minimum of 1L shall remain open at all other times.



Included in Monitoring Plan

- Corridors
- S Major Detour Route Signals (Coordination, and Optimized Timing Only Anticipated)
Traffic Signal inventory includes operational deficiencies that shall be rectified by RIDOT and/or City of Providence/East Providence per RFP).
- S Other Detour Route Signals (Optimized Timing Only Anticipated)

- | | | | |
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| <p>1 Point St./Wickenden St. at S. Water St.</p> <ul style="list-style-type: none"> Existing controller programming does not entirely match the latest RIDOT records. <p>2 Wickenden St. at S. Main St./ Benefit St.</p> <ul style="list-style-type: none"> Existing controller programming does not entirely match the latest RIDOT records Currently running "FREE" and not coordinated with adjacent intersection Existing coordination timings allow the intersection to drop out of coordination, potentially impacting the planned detour route during construction. <p>3 India St./ S. Main St. at Ramp SME (I-195 EB On-Ramp)</p> <ul style="list-style-type: none"> Existing Pedestrian Recall may impact capacity. Recall implemented due to COVID-19, unclear if/when programming will be removed. | <p>4 India St. at Ramp EI (I-195 EB Off-Ramp)</p> <ul style="list-style-type: none"> Possible issue with video detection on ramp, intermittently detecting vehicles in the right lane. <p>5 Taunton Ave. at Purchase St.</p> <ul style="list-style-type: none"> Loop detection failure on Taunton Ave EB (Phase 2) which is causing long delays for other phases. City to perform repairs. <p>6 Broadway at I-195 WB Off-Ramp/ Freeborn Ave.</p> <ul style="list-style-type: none"> Multiple loop detection failures on all phases, intersection running pre-timed as a result with inefficient operations. Further troubleshooting and repairs required. Controller operating under time-based coordination but no interconnect/GPS time synch reference. Controller clock is off when compared to adjacent system intersection, resulting in poor operations/coordination. | <p>7 Broadway at Warren Ave.</p> <ul style="list-style-type: none"> Controller operating under time-based coordination but no interconnect/GPS time synch reference. Controller clock is off when compared to adjacent system intersection, resulting in poor operations/coordination. <p>8 Pawtucket Ave. at S. Warren Ave.</p> <ul style="list-style-type: none"> Dual Entry not programmed on phases 4 and 8. | <p>9 Gano St. at I-195 West Ramps</p> <p>10 Waterfront Dr. at I-195 West Ramps (to be Installed by Stage 3)</p> <p>11 Taunton Ave. at John St. (Pedestrian Signal)</p> <p>12 Taunton Ave. at Goldsmith Ave.</p> <p>13 Taunton Ave. at Plaza</p> <p>14 Taunton Ave. at Pawtucket Ave.</p> <p>15 Pawtucket Ave. at Plaza</p> <p>16 Pawtucket Ave. at Waterman Ave.</p> <p>17 Warren Ave. at Lyon Ave.</p> <p>18 Broadway at Grosvenor Ave.</p> <p>19 Waterman Ave. at James St.</p> <p>20 Waterman Ave. at N. Brow St. (Temporary Signal Installed as part of Henderson Bridge project)</p> |
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Attachment M I-195 West Hourly Traffic Volume Summary

