

MAINE TURNPIKE AUTHORITY

Pre-Bid Conference

CONTRACT 2017.08

Guide Signing Upgrades, Phase Two

Exit 25 to Exit 63 (MM 23.3 to MM 73.0)

March 6, 2017 1:00 PM

1) Location:

The general limits of work are from south of Exit 25 to north of Exit 63 (MM 23.3 to MM 73.0). Guide signs included for upgrade are all guide signs for Exits 52, 53 and 63 as well as several specific signs for Exit 25 and its ramps (logo signs), Exit 36 (bridge mounted sign at Boom Road), Exits 42-47 (supplemental guide signs), and Exit 48 and its ramps (logo signs) along the Maine Turnpike, as well as one sign along the Falmouth Spur (Exit 52).

2) General Description:

The work consists of removing, replacing and installing new highway signs along the Maine Turnpike and several ramps from south of Exit 25 to north of Exit 63 in the Cities of Saco, South Portland and Portland and the Towns of Kennebunk, Arundel, Falmouth, Cumberland, Gray, and New Gloucester. The work includes furnishing, installing and salvaging aluminum signs, steel H-beam sign supports, concrete foundations, bridge overpass sign structures, maintenance of traffic and all other work incidental thereto in accordance with the Plans and Specifications.

3) Bid:

- a) March 16, 2017 at 10:00 A.M. at MTA headquarters 2360 Congress Street, Portland.
- b) All bid and contractual questions shall be directed to Purchasing Department, Phone No. (207) 482-8115.
- c) All questions on plans and specifications shall be in writing and shall be directed (faxed) to the Purchasing Department of the Maine Turnpike Authority. Fax No. (207) 871-7739 or email ncarll@maineturnpike.com

4) Notification:

- a) Contractor shall notify and obtain approval from the Authority prior to visiting the Project site for field inspection. The contact person is Mr. Steve Tartre at (207) 871-7771, ext. 144.
- b) Pre-Qualification: Contractors shall be on the MaineDOT Pre-Qualified list for Highway, Bridge and/or Traffic Signal and Lighting. In addition, Contractors shall submit a Statement of Qualifications to demonstrate that the Contractor has the experience and expertise to conduct the work included in this project.

- 5) Construction Schedule/Prosecution of Work:
- a) Contract Dates
 - i) April 3, 2017 Contract Start
 - ii) November 17, 2017 Contract Completion Date
 - b) Liquidated damages assessed in accordance with Subsection 107.7.2 for each calendar day the work is not completed beyond the completion date.
- 6) Interim Completion Dates (Special Provision 107.1.1)
- a) See Special Provision 107.1.1 for descriptions of the interim completion dates
 - i) May 25, 2017 Installation of Exit 25 logo signs (mainline and ramp)
 - ii) June 30, 2017 Fabricate and deliver five signs to Contract 2017.05
 - iii) 14 days after Boom Rd bridge painting Installation of sign and support at MM 33.42_N
 - iv) 14 days after Leighton Rd bridge painting Installation of signs and supports at MM 52.56_S
 - b) Supplemental liquidated damages assessed in accordance with Special Provision 107.1.1 for each calendar day that the work activities indicated are not achieved.
- 7) Maine Department of Labor – Fair Hourly Wages (Special Provision 104.3.8)
- a) Heavy and Bridge wages (Cumberland and York Counties)
 - b) Highway and Earthwork wages (Cumberland and York Counties)
- 8) Permit Requirements (Special Provision 105.8.2)
- a) The Project is subject to the requirements of the Maine Pollutant Discharge Elimination System (MPDES) General Permit for Stormwater Discharge from Construction Activity
 - b) A Notice of Intent (NOI) has not been issued or required for this project; however, the Contractor is still responsible to conduct the work in accordance with erosion and sedimentation control best practices.
 - c) MaineDOT Best Management Practices
 - d) The limit of disturbance (LOD) for this project has been estimated to be less than 0.15 acres. The Contractor shall prepare a LOD plan illustrating the Contractor’s proposed limit of earthwork disturbance in accordance with Special Provision 105.8.2.
 - e) It is noted that portions of this project are within the Authority’s Municipal Separate Storm Sewer Systems (MS4) area(s). As a condition for Contract Award, the Contractor shall review, sign, and comply with the MS4 Stormwater Awareness Plan and the MS4 Targeted BMP Adoption Plan, included as Appendices C and D of this Proposal.
- 9) General Requirements
- a) U-Turns at toll plazas and median openings not allowed. (Supplemental Specification 105.5.1)
 - b) Contractor access to and from the mainline shall not negatively impact mainline traffic flow. The Contractor may be required to establish lane closures to provide for safe access. Refer to Special Provision 652, Specific Project Maintenance of Traffic Requirements, for lane closure requirements and restrictions.
 - c) All vehicles used on the Project, including delivery trucks and personal vehicles, shall be equipped with amber flashing beacons in accordance with the Special Provision 652.3.4.

- d) Class III safety vests must be worn at all times by construction workers, including concrete delivery truck drivers when not in their vehicle.

10) Traffic Control (Special Provision Section 652):

- a) Contractor is responsible for supplying all traffic control devices.
- b) Contractor is responsible for placement, relocation, removal and maintenance of traffic control devices. Maintenance of traffic control devices is a 24-hour a day, seven days per week, responsibility as long as traffic control devices are within the Authority right-of-way. Contractor shall inspect devices as required.
- c) Turnpike Lane closures
 - i) One lane of traffic flowing in each direction at all times. Minimum traveling width of 14' required.
 - ii) Requests for temporary lane closures shall be submitted a minimum of two working days in advance of scheduled closure. Requests are subject to approval by MTA.
- d) Overnight stoppages of traffic for erection or removal of overhead signs and sign structures
 - i) Fee of \$2,500 per five-minute period for each roadway (northbound and southbound) if the complete stoppage of traffic exceeds 25 minutes.
 - ii) Requests shall be submitted five days in advance of schedule stoppage. Request subject to approval of MTA.
- e) Stoppages of traffic for moving heavy or slow equipment across or on the travel lanes (stoppages less than five minutes)
 - i) Fee of \$500 per five minutes in excess of the five minute allowance.
 - ii) Requests shall be submitted two working days in advance of scheduled stoppage. Request subject to approval by MTA.
- f) All signs, which do not apply to current construction activity, shall be 100% covered or removed in accordance with the plans. This includes any speed limit signs when work zone speed is in operation.
- g) Traffic control devices shall be NCHRP 350, TL-3 compliant.

11) Specific Contract Items

- a) Special Provision 107.4.6 Prosecution of Work – The following activities have specific restrictions and coordination requirements:
 - i) The installation of the new sign and bridge overpass sign support at MM 33.42_N shall not begin prior to the substantial completion of bridge painting by MTA Contract 2017.07. This is tentatively scheduled to occur by June 30, 2017. Note that there is a 14-day interim completion deadline for this activity (see Special Provision 107.1.1).
 - ii) The installation of the new signs and bridge overpass sign supports at MM 52.56_S shall not begin prior to the substantial completion of bridge painting by MTA Contract 2017.07. This is tentatively scheduled to occur by September 30, 2017. Note that there is a 14-day interim completion deadline for this activity (see Special Provision 107.1.1).
- b) Special Provision 626 Concrete Foundations – No soil borings or geotechnical engineering were performed for this project. Foundations sizes were determined based on geotechnical assumptions and recent experience in several areas.
- c) Special Provision 645 Remove and Stack Sign – Removed signs and steel H-beam supports shall be salvaged to the Authority. The Contractor shall deliver salvaged signs, broken down into not greater than 100 SF sections, to the MTA Sign Shop off of Blackstrap Road. Sign panels shall be

stacked by approximate sizes at the Sign Shop. Salvaged steel H-beam sign supports shall be labeled by size, shape and length and stacked by approximate sizes at the Sign Shop.

- d) Special Provision 645 Roadside Guide Signs, Type I – Supplied by Authority – MTA will supply the proposed extruded aluminum signs for the logo signs at Exit 25 and Exit 48. Note that the Exit 25 signs have an interim completion date for installation. The Contractor shall be responsible for coordinating with the MTA Sign Shop to have the signs fabricated in time to transport them and install them before the interim completion date.
- e) Special Provision 645 Protection of Signs with Type XI Sheeting and Special Provision 719 Signing Material – All proposed signs shall be fabricated with Type XI Sheeting manufactured by 3M Company. The Contractor is warned to exercise all due caution to avoid damage to the sheeting surface during fabrication, transportation, storage, and erection.
- f) Special Provision 645 Overhead Guide Signs and Structures
 - i) There are five guide signs that the Contractor shall fabricate and assemble for delivery to the York Maintenance Area, identified as OHSS I-95 MM 1.25 and OHSS I-95 MM 1.8.
 - ii) The backs of all sign panels to be mounted to bridge overpass sign supports shall be painted with appliance white alkyd baked enamel paint prior to installation. This includes the five guide signs to be delivered to the York Maintenance Area.

12) Questions

**SCHEDULE OF BID PRICES
 CONTRACT NO. 2017.08
 GUIDE SIGN REPLACEMENT, PHASE 2
 MAINE TURNPIKE EXITS 19-63**

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
619.1202	TEMPORARY MULCH	Lump Sum	1				
626.3301	30" DIAMETER, 15 FOOT OR LESS FOUNDATION	Each	36				
626.3302	30" DIAMETER, GREATER THAN 15 FOOT FOUNDATION	Each	10				
626.3303	36" DIAMETER FOUNDATION	Each	6				
629.05	HAND LABOR, STRAIGHT TIME	Hour	25				
645.105	REMOVE AND STACK SIGN	Each	56				
645.13	BRIDGE OVERPASS-MOUNTED GUIDE SIGN	Each	3				
645.162	BREAKAWAY DEVICE MULTI POLE	Each	19				
645.251	ROADSIDE GUIDE SIGN, TYPE 1	Square Foot	9491				
645.2519	AUXILIARY PANEL SUPPORTS	Linear Foot	12				
645.252	ROADSIDE GUIDE SIGN, TYPE 1 - SUPPLIED BY AUTHORITY	Each	5				

CARRIED FORWARD:

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
645.289	STEEL H-BEAM POLES	Pounds	26290				
645.80	WOOD POST	Linear Foot	355				
652.30	FLASHING ARROW	Each	3				
652.33	DRUM	Each	400				
652.35	CONSTRUCTION SIGNS	Square Foot	1077				
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	Lump Sum	1				
652.38	FLAGGERS	Hour	16				
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	Each	2				
652.45	TRUCK MOUNTED ATTENUATOR	Calendar Days	150				
						\$200	00
656.50	BALED HAY, IN PLACE	Each	18			\$30,000	00
656.632	30 INCH TEMPORARY SILT FENCE	Linear Foot	1625				
659.10	MOBILIZATION	Lump Sum	1				

TOTAL:

SPECIAL PROVISIONSECTION 652MAINTENANCE OF TRAFFIC

(Specific Project Maintenance of Traffic Requirements)

This Specification describes the specific project maintenance of traffic requirements for this Project.

The following minimum traffic requirements shall be maintained. These requirements may be adjusted based on the traffic volume when authorized by the Authority.

Boom Road

The Boom Road bridge over the Maine Turnpike may require a flagging operation for the proposed installation of a new bridge overpass mounted sign support. The Contractor shall notify the Resident/Authority two weeks prior to the proposed bridge work on Boom Road. The Contractor shall maintain a minimum of one 13-foot wide travel lane on the bridge at all times.

Leighton Road

The Leighton Road bridge over the Maine Turnpike may require a flagging operation for the proposed installation of the new bridge overpass mounted sign supports. The Contractor shall notify the Resident/Authority two weeks prior to the proposed bridge work on Leighton Road. The Contractor shall maintain a minimum of one 13-foot wide travel lane on the bridge at all times.

Maine Turnpike Traffic Control Requirements

This Section outlines the minimum requirements that shall be maintained for work on, over, or adjacent to the Maine Turnpike roadway. Operations are allowed as outlined below:

Sign support installation and overhead sign installation directly over traffic or within six feet of a travel lane as measured from the painted pavement marking line or traffic control device will require a lane closure. If work cannot be completed within a lane closure, then a full traffic stoppage may be required during which traffic may be held for periods of up to 25 minutes during each stoppage. Traffic stoppages are restricted to 10:00 p.m. to 5:00 a.m. Before the roadway is reopened, all materials shall be secured so they will not endanger traffic passing underneath. The Contractor will reimburse the Authority at the rate of \$2,500.00 per five-minute period for each roadway not reopened (northbound and southbound), in excess of the 25- minute limit. Total penalty shall be deducted from the next pay estimate.

Night work is expected and will be permitted upon submission of a written request to the Resident Engineer at least one week prior to the scheduled work. Alternatively, the Contractor may submit a schedule for night work at least one week prior to the first night of work for review and approval by the Resident Engineer.

Shoulder closures are prohibited in areas adjacent to guardrail north of MM 43.7. All work in these areas shall require a lane closure for access.

Lane closures will be permitted in accordance with the schedule shown in Table A. Lane closures outside of the allowable hours and dates indicated in Table A may be requested in writing at least one week prior to the proposed time. Any requests for additional lane closure times will be evaluated by the Authority; however, the Authority makes no commitment to approve lane closure requests outside of the approved hours.

Ramp work will be permitted in accordance with the schedule shown in Table A. Full ramp closures will not be permitted.

TABLE A: APPROVED SHOULDER CLOSURES AND LANE CLOSURES

Mainline Northbound, North of Exit 53 April 1, 2017 to November 17, 2017			
		Turnpike Shoulder Closures	Turnpike Lane Closures
Days of Week:	Sunday p.m. through Thursday p.m.		
Time of Day:	7:00 p.m. to 2:00 p.m. next day		Allowed
Day of Week:	Thursday p.m. through Friday		
Time of Day:	7:30 p.m. Thursday to 12:01 p.m. Friday		Allowed

Mainline Southbound, North of Exit 53 April 1, 2017 to June 29, 2017 September 5, 2017 to November 17, 2017			
		Turnpike Shoulder Closures	Turnpike Lane Closures
Days of Week:	Monday a.m. through Friday a.m.		
Time of Day:	9:00 a.m. to 5:30 a.m. next day		Allowed
Day of Week:	Friday		
Time of Day:	9:00 a.m. to 3:00 p.m.		Allowed

Mainline Southbound, North of Exit 53 June 30, 2017 to September 4, 2017			
		Turnpike Shoulder Closures	Turnpike Lane Closures
Days of Week:	Sunday p.m. through Friday a.m.		
Time of Day:	6:00 p.m. to 5:30 a.m. next day		Allowed

Mainline, MM 43.7 to Exit 53 April 1, 2017 to June 29, 2017 September 5, 2017 to November 17, 2017			
		Turnpike Shoulder Closures	Turnpike Single Lane Closures
Days of Week:	Sunday p.m. through Friday a.m.		
Time of Day:	7:00 p.m. to 5:30 a.m. next day		Allowed

Mainline, MM 43.7 to Exit 53 June 30, 2017 to September 4, 2017			
		Turnpike Shoulder Closures	Turnpike Single Lane Closures
Days of Week:	Sunday p.m. through Friday a.m.		
Time of Day:	10:00 p.m. to 5:30 a.m. next day		Allowed

Mainline, Northbound Exit 32 to MM 43.7 April 1, 2017 to November 17, 2017				
		Turnpike Shoulder Closures	Turnpike Single Lane Closures	Turnpike Double Lane Closures
Days of Week:	Sunday p.m. through Friday a.m.			
Time of Day:	6:00 p.m. to 7:00 a.m. next day	Allowed	Allowed	
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	Anytime	Allowed		

Mainline, Southbound Exit 32 to MM 43.7 April 1, 2017 to November 17, 2017				
		Turnpike Shoulder Closures	Turnpike Single Lane Closures	Turnpike Double Lane Closures
Days of Week:	Sunday p.m. through Monday a.m.			
Time of Day:	8:00 p.m. to 10:00 a.m. next day	Allowed	Allowed	
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	Anytime	Allowed		
Days of Week:	Monday p.m. through Friday a.m.			
Time of Day:	6:00 p.m. to 10:00 a.m. next day	Allowed	Allowed	
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	Anytime	Allowed		

Mainline Northbound, MM 16.0 to Exit 32 April 1, 2017 to June 29, 2017 September 5, 2017 to November 17, 2017				
		Turnpike Shoulder Closures	Turnpike Single Lane Closures	Turnpike Double Lane Closures
Days of Week:	Sunday p.m. through Thursday p.m.			
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	Anytime	Allowed	Allowed	
Days of Week:	Thursday p.m. through Friday a.m.			
Time of Day:	10:00 p.m. Thursday to 6:00 a.m. Friday	Allowed	Allowed	Allowed
Time of Day:	6:00 p.m. Thursday to 6:30 a.m. Friday	Allowed	Allowed	
Time of Day:	Anytime	Allowed		

Mainline Northbound, MM 16.0 to Exit 32 June 30, 2017 to September 4, 2017				
		Turnpike Shoulder Closures	Turnpike Single Lane Closures	Turnpike Double Lane Closures
Days of Week:	Sunday p.m. through Friday a.m.			
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	6:00 p.m. to 7:00 a.m. next day	Allowed	Allowed	
Time of Day:	Anytime	Allowed		

Mainline Southbound, MM 16.0 to Exit 32 April 1, 2017 to June 29, 2017 September 5, 2017 to November 17, 2017				
		Turnpike Shoulder Closures	Turnpike Single Lane Closures	Turnpike Double Lane Closures
Days of Week:	Sunday p.m. through Thursday p.m.			
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	8:00 p.m. Sunday to 10:00 p.m. Thursday	Allowed	Allowed	
Time of Day:	Anytime	Allowed		
Days of Week:	Thursday p.m. through Friday a.m.			
Time of Day:	10:00 p.m. Thursday to 6:00 a.m. Friday	Allowed	Allowed	Allowed
Time of Day:	6:00 p.m. Thursday to 6:30 a.m. Friday	Allowed	Allowed	
Time of Day:	Anytime	Allowed		

Mainline Southbound, MM 16.0 to Exit 32 June 30, 2017 to September 4, 2017				
		Turnpike Shoulder Closures	Turnpike Single Lane Closures	Turnpike Double Lane Closures
Days of Week:	Sunday p.m. through Monday a.m.			
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	8:00 p.m. to 7:00 a.m. next day	Allowed	Allowed	
Time of Day:	Anytime	Allowed		
Days of Week:	Monday p.m. through Friday a.m.			
Time of Day:	10:00 p.m. to 6:00 a.m. next day	Allowed	Allowed	Allowed
Time of Day:	6:00 p.m. to 7:00 a.m. next day	Allowed	Allowed	
Time of Day:	Anytime	Allowed		

Exit 25 Ramps and Exit 48 Ramps April 1, 2017 to November 17, 2017		
		Ramp Shoulder Closures
Days of Week:	Monday through Friday	
Time of Day:	9:00 a.m. to 3:00 p.m.	Allowed
Time of Day:	7:00 p.m. to 6:00 a.m.	Allowed

SPECIAL PROVISIONSECTION 719SIGNING MATERIALSection 719.01 Reflective Sheeting

This Subsection is deleted in its entirety and replaced with the following:

Retroreflective sheeting for signs shall meet at a minimum the requirements for, ASTM 4956 – Type VII, Type VIII or Type XI(Prismatic), for all signs. All Type 1 Guide Signs shall meet at a minimum the requirements for ASTM 4956 –Type XI(Prismatic) sheeting. Use of overlay film that degrades the retroreflectivity of the sign sheeting (i.e. Avery-Dennison overlay film) will be prohibited.

Reflective sheeting, used in sign construction, shall have been manufactured within the six months immediately prior to the fabrication of each sign. Upon delivery at the job site of each shipment of signs, a letter of certification shall be provided that the reflective sheeting conforms to the requirements.

Signs may only be covered using materials and techniques explicitly approved by the sheeting manufacturer for that purpose and shall not alter the sign sheeting warranty.

For Type 1 Guide Signs, all reflective sheeting shall be color matched on each sign unit.

All warning signs shall be fluorescent yellow except for Ramp Advisory Speed signs which shall be yellow.

All Construction Series signs that use orange backgrounds shall be fluorescent orange.

All Pedestrian Signs shall be fluorescent yellow-green.

EZ-PASS Purple shall conform to the FHWA Purple color box.

719.02 Demountable High Intensity Reflectorized Letters, Numerals, Symbols, and Borders

This Subsection, including the title, is deleted in its entirety and replaced with the following:

719.02 Direct Applied Reflectorized Letters, Numerals, Symbols, and Borders

Direct applied letters, numerals, symbols and borders shall consist of cut out sheeting shall meet at a minimum the requirements for ASTM 4956 – Type VII, Type VIII or Type XI (Prismatic) sheeting.

All Type 1 Guide Signs shall meet at a minimum the requirements for ASTM 4956 – Type XI (Prismatic) sheeting.

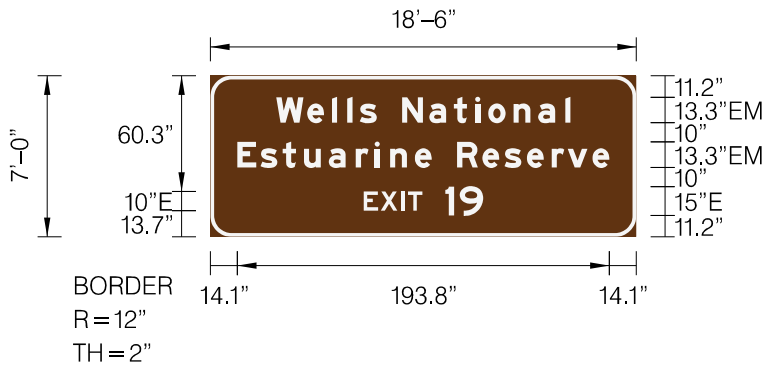
SIGN DETAIL

1:40



Maine Turnpike Authority

1:100



SIGN NUMBER	GM I-95 MM 16.21_N
WIDTH x HGHT.	18'-6" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Brown
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)

LENGTH SERIES/SIZE

W	e	l	l	s		N	a	t	i	o	n	a	l			EM	2000	
34.4	50.5	63.4	71.4	77.9	86.7	100	114.1	126.8	138	144.8	157.9	170.9	184.9		153.2	13.3	10	
E	s	t	u	a	r	i	n	e									EM	2000
14.1	26.1	37.7	48.8	61.7	75.8	85.7	93.6	106.5	115.3							13.3	10	
R	e	s	e	r	v	e											EM	2000
128.6	141.8	153.2	164.9	177.8	186.2	199.1									193.8	13.3	10	
E	X	I	T	1	9												E	2000
79.9	88.8	99.5	103	122.5	130										62.3	10,15		

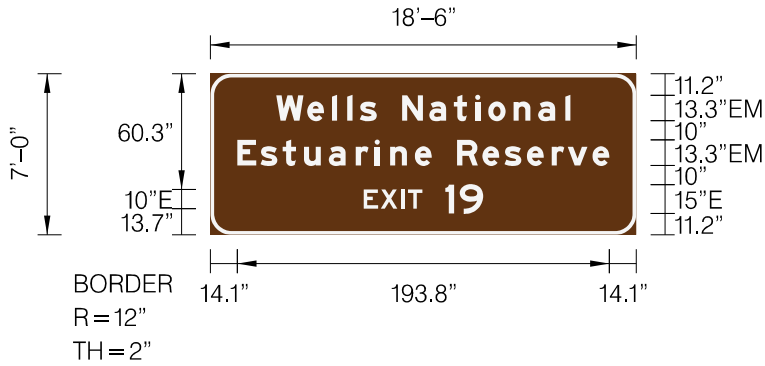
SIGN DETAIL

1:40



Maine Turnpike Authority

1:100



SIGN NUMBER	GM I-95 MM 21.96_S
WIDTH x HGHT.	18'-6" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Brown
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)

LENGTH SERIES/SIZE

W	e	l	l	s		N	a	t	i	o	n	a	l			EM 2000
34.4	50.5	63.4	71.4	77.9	86.7	100	114.1	126.8	138	144.8	157.9	170.9	184.9		153.2	13.3/10
E	s	t	u	a	r	i	n	e								EM 2000
14.1	26.1	37.7	48.8	61.7	75.8	85.7	93.6	106.5	115.3							13.3/10
R	e	s	e	r	v	e										EM 2000
128.6	141.8	153.2	164.9	177.8	186.2	199.1									193.8	13.3/10
E	X	I	T	1	9											E 2000
79.9	88.8	99.5	103	122.5	130										62.3	10,15