

MAINE TURNPIKE AUTHORITY

ADDENDUM NO. 2

CONTRACT 2024.06

BRIDGE REPAIRS

YORK INTERCHANGE UNDERPASS (MM 6.80)
FLETCHER STREET/ROUTE 35 UNDERPASS (MM 25.30)

Questions:

The following are questions asked at the pre-bid meeting or submitted to the Authority in writing. Answers to the questions are noted. Bidders shall utilize this information in preparing their bid.

Question 1: We would prefer to work behind temporary barrier at the York Interchange Underpass. Would MTA consider adding temporary barrier to the traffic control plans?

Response: *Yes, see changes outlined below.*

Make the following changes to the bid documents:

In the Plans, **REMOVE** Sheets 2, 5, 7, 9, and 11 and **REPLACE** with the attached revised Sheets 2, 5, 7, 9, and 11. **ADD** the attached Sheets 10A and 10B.

In the Contract Documents, Proposal, **REMOVE** pages P-3 and P-4 and **REPLACE** with the attached revised pages P-3 and P-4.

In the Contract Documents, Special Provisions, **ADD** the following attached sections: Section 526 Concrete Barrier (Temporary Barrier Markers); Section 526 Concrete Barrier (Temporary Concrete Barrier Type I – Supplied by Authority); Section 527 Energy Absorbing Unit (Work Zone Crash Cushion) (Resetting Existing Work Zone Crash Cushions).

Note: The above items shall be considered as part of the bid submittal.

Attachments

- Plan Sheets 2, 5, 7, 9, 10A, 10B, 11 (7 pages)
- Proposal Page P-3 and P-4 (2 pages)
- Special Provisions Sections 526 and 527 (7 pages)

The total number of pages included with this addendum is eighteen (18).

All bidders are requested to acknowledge the receipt of the Addendum No. 2 by signing below and faxing this sheet to Nate Carll, Purchasing Department, (207) 871-7739. Bidders are also required to acknowledge receipt of this Addendum No. 2 on Page P-6 of the bid package.

Business Name

Print Name and Title

Signature

Date

May 17, 2024

Very truly yours,

MAINE TURNPIKE AUTHORITY

Purchasing Manager
Maine Turnpike Authority


Date: 5/17/2024

ESTIMATED QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	YORK INTERCHANGE UNDERPASS	FLETCHER STREET/ROUTE 35 UNDERPASS	QUANTITY TOTAL
202.202	Removing Pavement Surface	SY	1,850	1,550	3,400
202.202i	Removing Pavement Surface - Sidewalk	SY		22	22
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	TON	155	130	285
403.209	Hot Mix Asphalt - 9.5 mm (sidewalks, drives, & incidentals)	TON		4	4
409.15	Bituminous Tack Coat RS-1 or RSlh - Applied	GAL	71	63	134
502.701i	Weep Drain Extensions	EA		12	12
515.202	Clear Protective Coating for Concrete Surfaces	SY	490	520	1,010
518.101	Abutment Repairs	CF	24	23	47
518.391	Repairing Granite Curb Joint and Bedding Mortar	LF		10	10
518.4	Epoxy Injection Crack Repair	LF	30		30
518.48	Reseal Joints	LF		43	43
518.864	Elastomeric Concrete Header Repair	CF	150	24	174
518.92	Steel Curb Plate Removal	EA	4		4
520.23	Asphaltic Plug Joint	LF		83	83
520.234	Expansion Device - Silicone Coated and Pre-Compressed Seal	LF	230		230
520.923	Bridge Joint Modification (York Interchange Underpass)	EA	4		4
526.306	Temporary Concrete Barrier, Type I - supplied by the Authority (York Interchange Underpass)	LS	1		1
527.341	Work Zone Crash Cushions - TL -3	UNIT	2		2
609.31	Curb Type 3	LF		37	37
609.40	Reset Curb Type 5	LF	4		4
652.30	Flashing Arrow Board	EA	1		1
652.312	Type III Barricade	EA	3	3	6
652.33	Drum	EA	85		85
652.34	Cone	EA		25	25
652.35	Construction Signs	SF	148	117	265
652.361	Maintenance of Traffic Control Devices (York Interchange Underpass)	LS	1		1
652.361	Maintenance of Traffic Control Devices (Fletcher Street/Route 35 Underpass)	LS		1	1
652.380	Flaggers	HR		600	600
652.41	Portable - Changeable Message Sign	EA	2	2	4
656.75	Temporary Soil Erosion and Water Pollution Control	LS		1	1
659.10	Mobilization	LS		1	1

Filename: ...002_qty.dgn

Scale: AS NOTED			
No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

Designed	MFS	4/23/24	Checked	MEB	4/23/24
Drawn	MJC	4/23/24	In Charge of	GME	4/23/24

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 TEL (207) 889-3150
 FAX (207) 253-5596



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.06
 BRIDGE REPAIRS
 ESTIMATED QUANTITIES

VHB: 55729.00 SHEET NUMBER: 2
 CONTRACT: 2024.06

MTA PROJECT NO. 2024.06
 ATTENDUM NO. 2
 May 17, 2024
 Page 3 of 18

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. All traffic control equipment and devices shall conform to the 2014 edition of the Maine Department of Transportation (MaineDOT) Standard Specifications, Maine Turnpike Authority (MTA) Supplemental Specifications, contract specifications and applicable traffic control standards and practices.
2. Any signs, equipment, or devices found to be damaged or unserviceable shall be replaced at the Contractor's expense.
3. Temporary lane closures will be required, with advanced approval, whenever work will occur within four feet of the traveled way. Temporary lane closures shall be removed if no work is occurring. See Special Provisions for more information including available lane closure times.
4. Lane closure requests shall be submitted by the Resident by Noon on the Thursday prior to the week of the proposed lane closures. The Contractor shall plan all lane closure requests accordingly.
5. Approach ends of temporary concrete barrier shall be placed outside of the highway clear zone (minimum 34 feet from the traveled way) or protected by temporary impact attenuators or with guardrail overlaps as approved by the Resident.
6. Maximum spacing for channelizing devices (drums) shall be:
80' on center along tangents
40' on center along tapers
7. Work zone speed limits shall only be permitted when temporary mainline lane closures are in place.
8. Work shall only occur on one bridge at a time.

YORK INTERCHANGE UNDERPASS NOTES

1. York Interchange Underpass will be completed under left lane and right lane closures. See Lane closure plans.

FLETCHER STREET / ROUTE 35 UNDERPASS NOTES

1. Fletcher Street work will be completed under flagging operations. See Flagging Plan.

2. Flaggers shall be on each end of the work zone. When flaggers are controlling the intersections, the existing traffic signals shall be turned Off. The traffic signals shall be turned on when the flaggers are not present. The operation of the traffic signal shall be coordinated with Kennebunk Police Department and MTA Resident.

FLETCHER STREET / ROUTE 35 UNDERPASS SINGLE LANE CLOSURE / SHOULDER CLOSURE

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012	36"x18"	3 - Black on Orange
W20-1			36"x36"	5 - Black on Orange
W20-4			36"x36"	2 - Black on Orange
W20-7			36"x36"	3 - Black on Orange
R9-9			24"x12"	2 - Black on Orange

YORK INTERCHANGE UNDERPASS TEMPORARY SINGLE LANE CLOSURES

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012	36"x18"	3 - Black on Orange
W4-2L			36"x36"	1 - Black on Orange
W4-2R			36"x36"	1 - Black on Orange
W9-3L			36"x36"	1 - Black on Orange
W9-3R			36"x36"	1 - Black on Orange
W20-1			48"x48"	2 - Black on Orange
W20-1		36"x36"	3 - Black on Orange	
R3-7R			30"x30"	1 - Black on White
R11-2			48"x30"	1 - Black on White
M4-9L			48"x36"	1 - Black on Orange
M4-9L			30"x24"	1 - Black on Orange
M4-10R			48"x18"	1 - Black on Orange

Date: 5/17/2024

Filename: ... \005_Workzone_01.dgn

Scale:			
No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

Designed by:			
CONSULTANT PROJECT MANAGER: G. Edington			
By	Date	By	Date
Designed	MLG 4/23/24	Checked	MDS 4/23/24
Drawn	JAR 4/23/24	In Charge of	GME 4/23/24

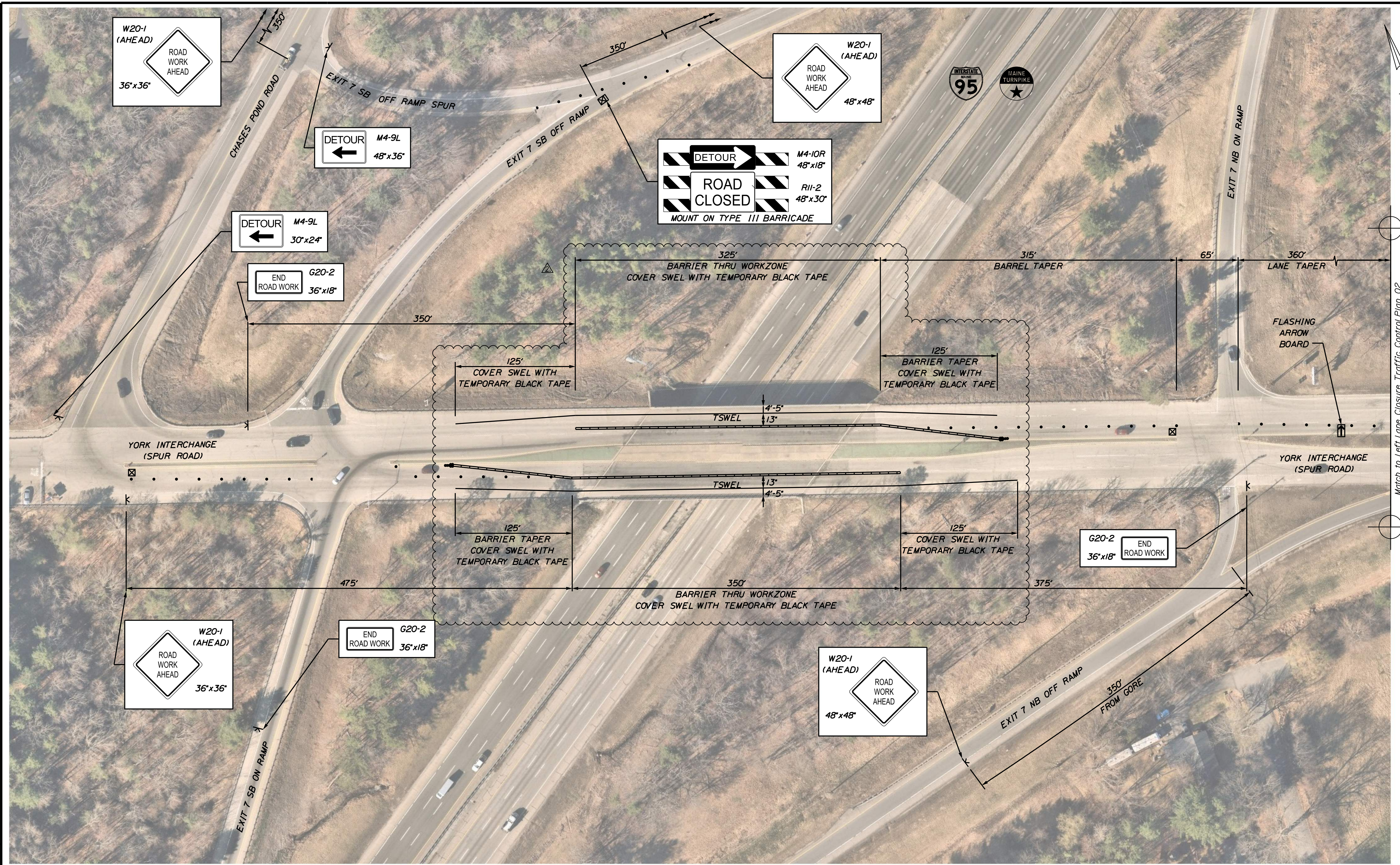
VANASSE HANGEN BRUSTLIN, INC.
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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

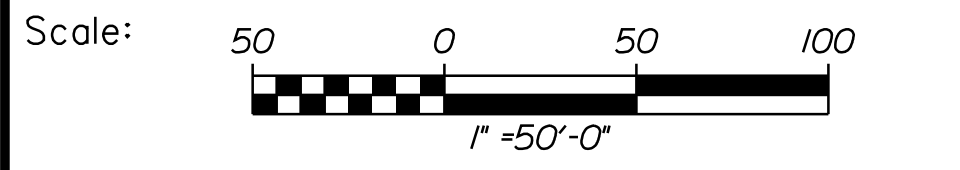
MTA PROJECT NO. 2024.06 BRIDGE REPAIRS MAINTENANCE OF TRAFFIC DETAILS (01 OF 02)	
VHB: 55729.00	SHEET NUMBER: 5
CONTRACT: 2024.06	

Date: 5/17/2024



Match to Left Lane Closure Traffic Control Plan 02

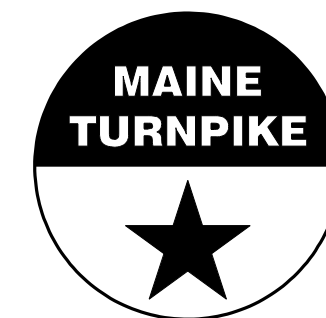
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Designed by:



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

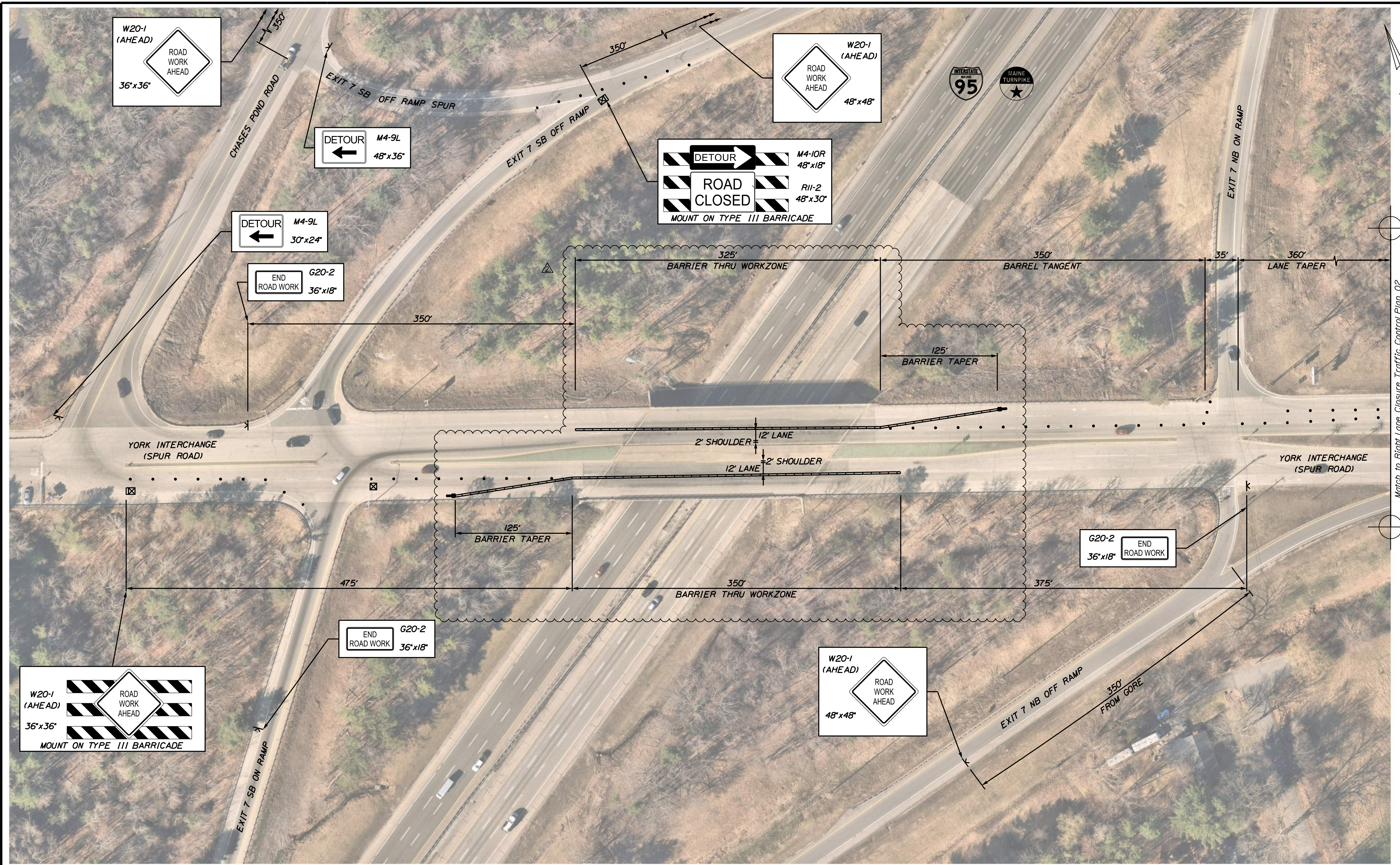
MTA PROJECT NO. 2024.06
 YORK INTERCHANGE UNDERPASS AT
 MM 6.80 IN YORK, ME
 SPUR ROAD LEFT LANE CLOSURE
 TRAFFIC CONTROL PLAN (01 OF 02)

No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MLG	4/23/24	Checked MDS 4/23/24
Drawn	JAR	4/23/24	In Charge of GME 4/23/24

VHB: 55729.00
 CONTRACT: 2024.06
 SHEET NUMBER: 7

Date: 5/17/2024



Match to Right Lane Closure Traffic Control Plan 02

Scale: 1" = 50'-0"

No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MLG	4/23/24	Checked	MDS	4/23/24
Drawn	JAR	4/23/24	In Charge of	GME	4/23/24

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

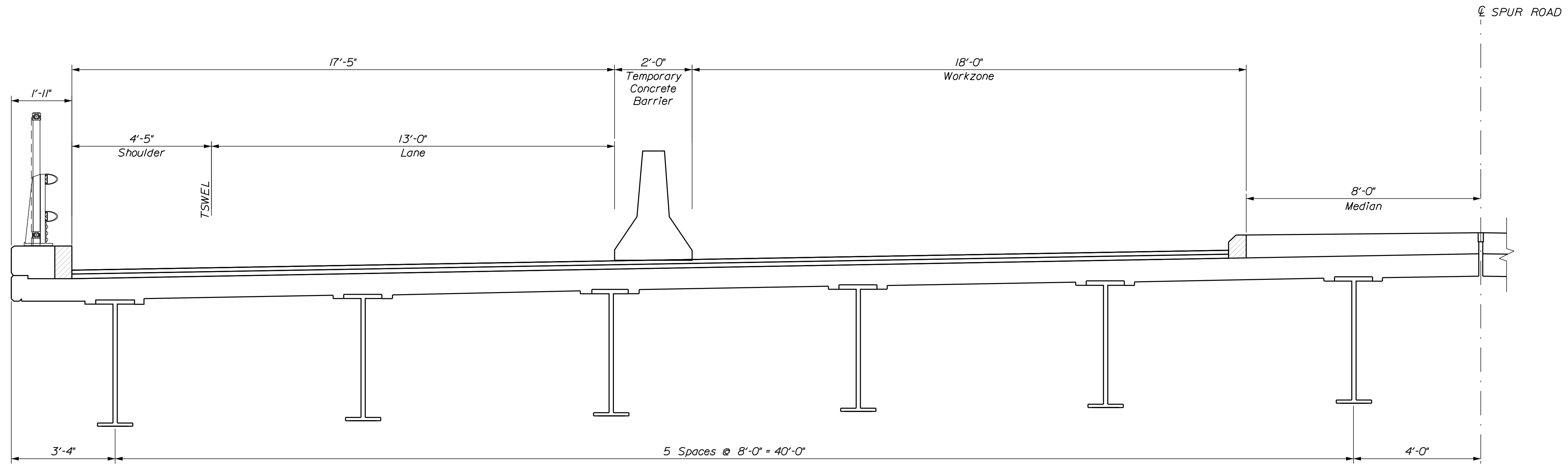
MTA PROJECT NO. 2024.06
 YORK INTERCHANGE UNDERPASS AT
 MM 6.80 IN YORK, ME
 SPUR ROAD RIGHT LANE CLOSURE
 TRAFFIC CONTROL PLAN (01 OF 02)

VHB: 55729.00
 CONTRACT: 2024.06

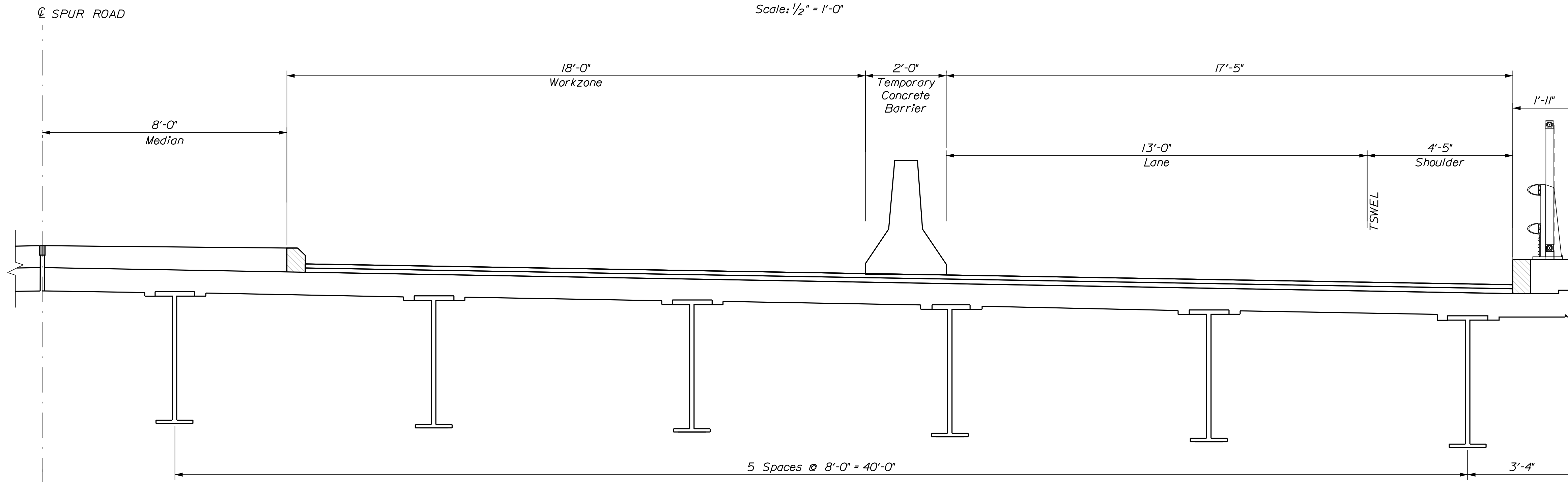
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Date: 5/17/2024

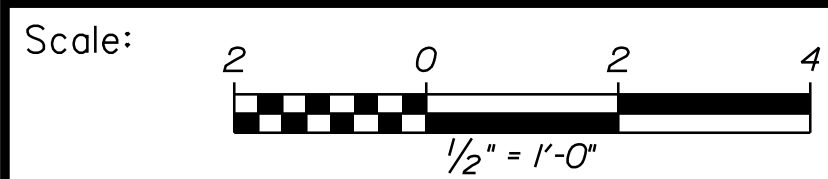


TRAFFIC CONTROL PHASE I BRIDGE CONSTRUCTION - WESTBOUND
Scale: 1/2" = 1'-0"



TRAFFIC CONTROL PHASE I BRIDGE CONSTRUCTION - EASTBOUND
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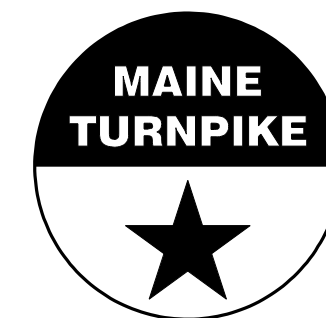
No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MFS	4/23/24	Checked MEB 4/23/24
Drawn	MJC	4/23/24	In Charge of GME 4/23/24

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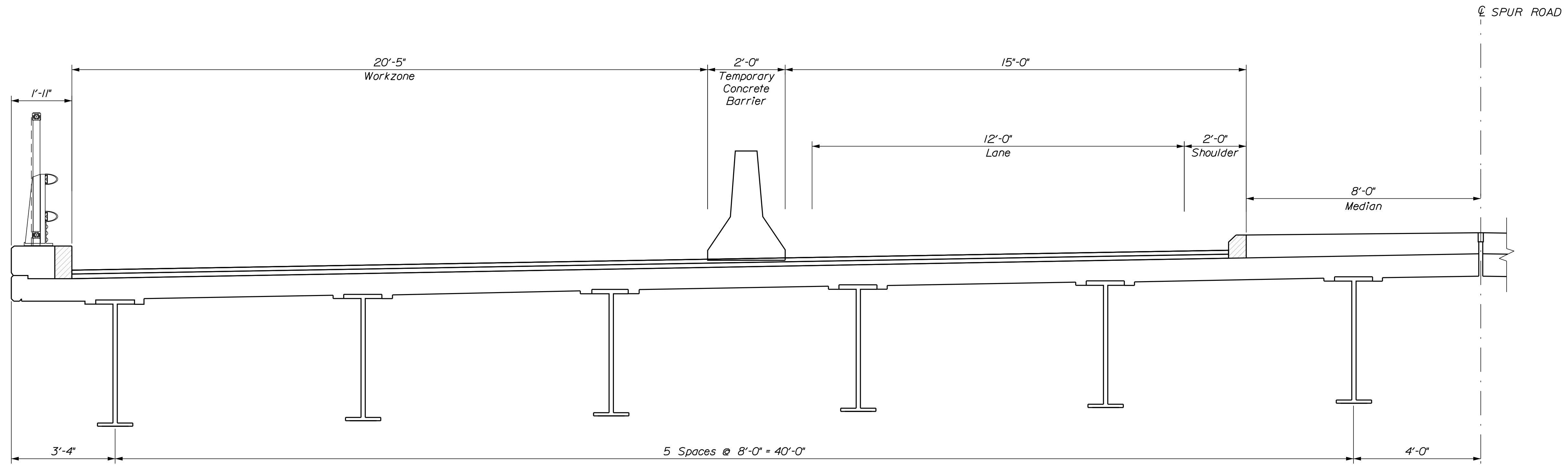
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.06
YORK INTERCHANGE UNDERPASS AT
MM 6.80 IN YORK, ME
PHASE 1 BRIDGE TYPICAL SECTION

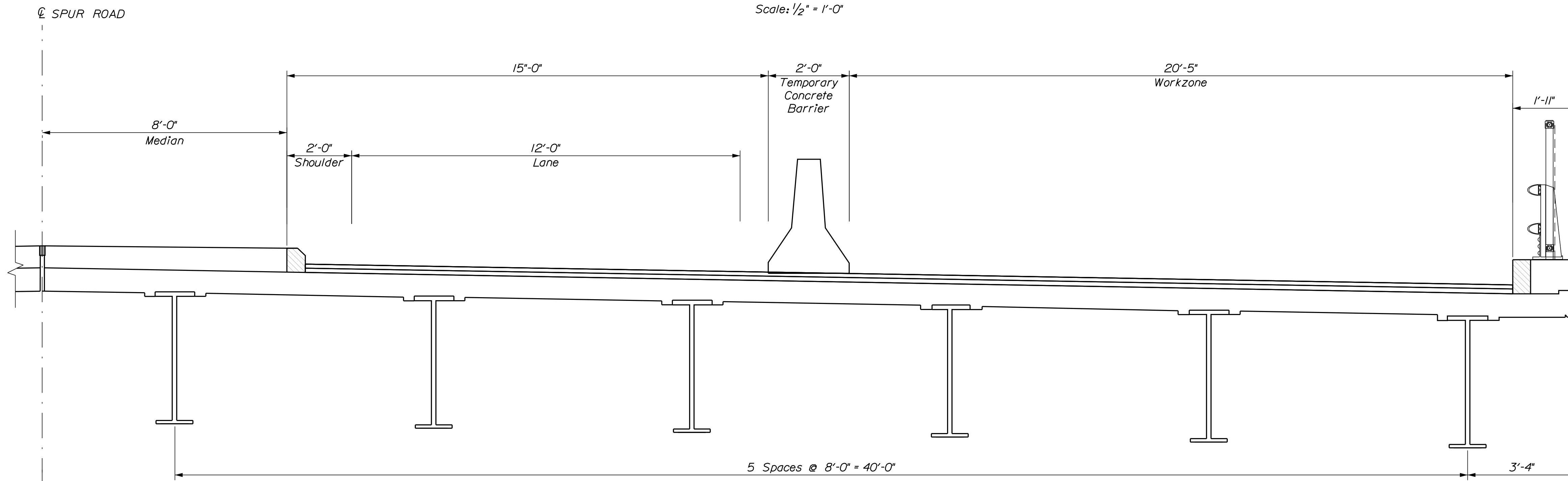
VHB: 55729.00
CONTRACT: 2024.06

SHEET NUMBER: 10A

Date: 5/17/2024

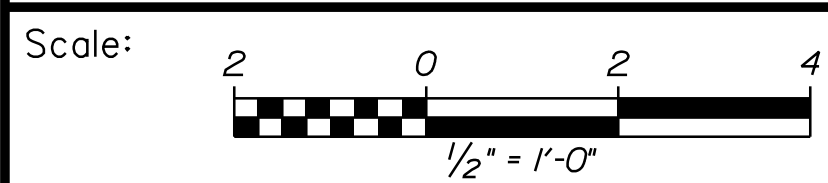


TRAFFIC CONTROL PHASE 2 BRIDGE CONSTRUCTION - WESTBOUND
Scale: 1/2" = 1'-0"



TRAFFIC CONTROL PHASE 2 BRIDGE CONSTRUCTION - EASTBOUND
Scale: 1/2" = 1'-0"

Filename: ...010B_MM_6.80_TCP-typical.dgn



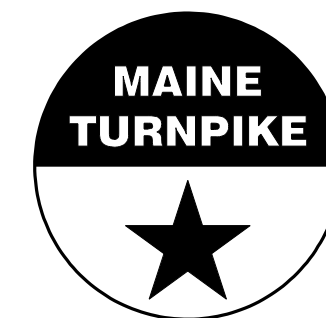
No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MFS	4/23/24	Checked MEB 4/23/24
Drawn	MJC	4/23/24	In Charge of GME 4/23/24

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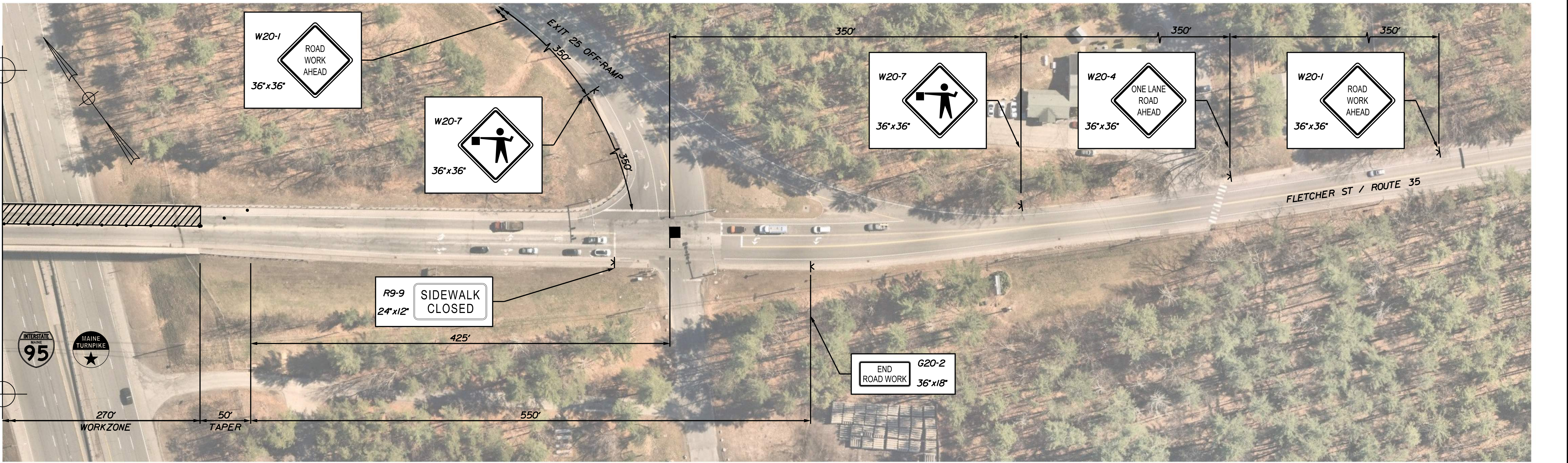
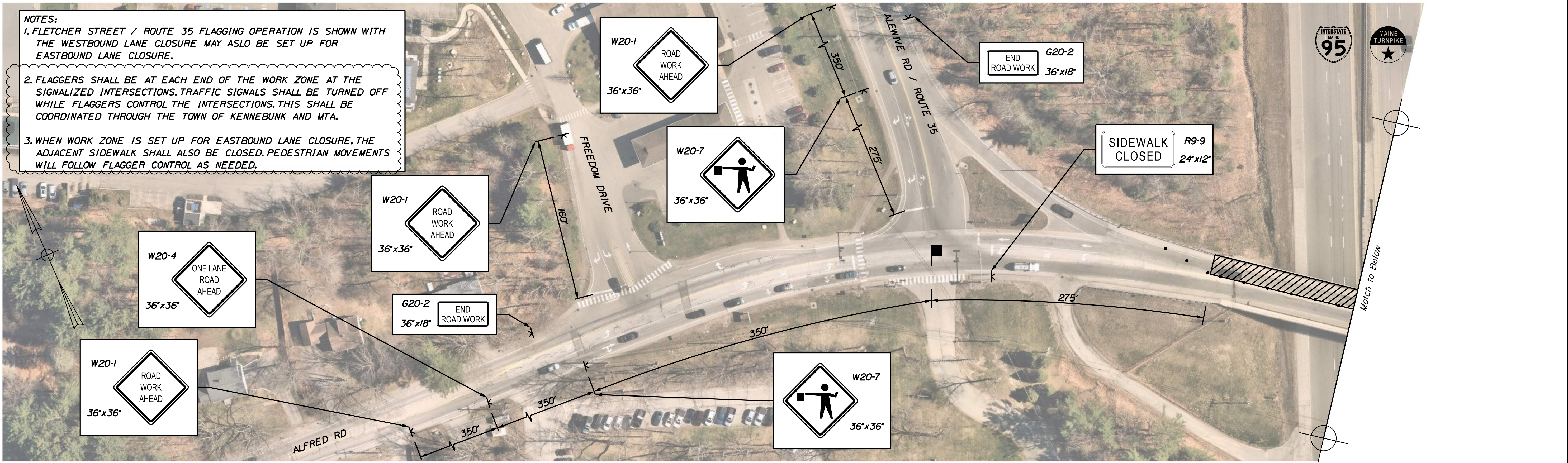
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.06
YORK INTERCHANGE UNDERPASS AT
MM 6.80 IN YORK, ME
PHASE 2 BRIDGE TYPICAL SECTION

VHB: 55729.00 SHEET NUMBER: 10B
CONTRACT: 2024.06

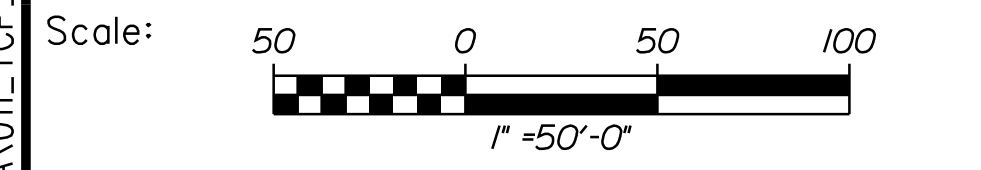
NOTES:
 1. FLETCHER STREET / ROUTE 35 FLAGGING OPERATION IS SHOWN WITH THE WESTBOUND LANE CLOSURE MAY ALSO BE SET UP FOR EASTBOUND LANE CLOSURE.
 2. FLAGGERS SHALL BE AT EACH END OF THE WORK ZONE AT THE SIGNALIZED INTERSECTIONS. TRAFFIC SIGNALS SHALL BE TURNED OFF WHILE FLAGGERS CONTROL THE INTERSECTIONS. THIS SHALL BE COORDINATED THROUGH THE TOWN OF KENNEBUNK AND MTA.
 3. WHEN WORK ZONE IS SET UP FOR EASTBOUND LANE CLOSURE, THE ADJACENT SIDEWALK SHALL ALSO BE CLOSED. PEDESTRIAN MOVEMENTS WILL FOLLOW FLAGGER CONTROL AS NEEDED.



Date: 5/17/2024

Match to Above

Filename: ...MSTA011_TCP_01.dgn



Designed by:

No.	Revision	By	Date
1	Bid Addendum No. 2	MLG	5/16/24

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MLG	4/23/24	Checked	MDS	4/23/24
Drawn	JAR	4/23/24	In Charge of	GME	4/23/24

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.06
 FLETCHER STREET/ROUTE 35 UNDERPASS
 AT MM 25.40 IN KENNEBUNK, ME
 FLAGGING
 TRAFFIC CONTROL PLAN

VHB: 55729.00 SHEET NUMBER: 11
 CONTRACT: 2024.06

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
518.864	Elastomeric Concrete Header Repair	Cubic Foot	174				
518.92	Steel Curb Plate Removal	Each	4				
520.23	Asphaltic Plug Joint	Linear Foot	83				
520.234	Expansion Device - Silicone Coated and Pre-Compressed Seal	Linear Foot	230				
520.923	Bridge Joint Modification (York Interchange Underpass)	Each	4				
526.306	Temporary Concrete Barrier, Type 1 - Supplied by the Authority	Lump Sum	1				
527.341	Work Zone Crash Cushions - TL-3	Unit	2				
609.31	Curb Type 3	Linear Foot	37				
609.40	Reset Curb Type 5	Linear Foot	4				
652.30	Flashing Arrow Board	Each	1				
652.312	Type III Barricade	Each	7				
652.33	Drum	Each	85				

CARRIED FORWARD:

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
652.340	Cone	Each	25				
652.350	Construction Signs	Square Foot	265				
652.361	Maintenance of Traffic Control Devices (York Interchange Underpass)	Lump Sum	1				
652.361	Maintenance of Traffic Control Devices (Fletcher Street/Route 35)	Lump Sum	1				
652.38	Flaggers	Hour	600				
652.410	Portable-Changeable Message Sign	Each	4				
656.750	Temporary Soil Erosion and Water Pollution Control	Lump Sum	1				
659.10	Mobilization (10%)	Lump Sum	1				

TOTAL:

SPECIAL PROVISION

SECTION 526

CONCRETE BARRIER

(Temporary Barrier Markers)

526.1 Description

The following paragraphs are added:

This work shall consist of furnishing, installing and maintaining temporary barrier markers on all temporary barrier supplied by the Contractor and the Authority.

526.2 Materials

The following paragraphs are added:

Temporary barrier markers shall be "Big Dog" barrier markers manufactured by Custom Products Corporation, or approved equal. Markers shall be bi-directional with a minimum effective reflective area of 96 square inches (48 square inches each side) as approved by the Resident. The reflectors shall meet MUTCD reflectivity requirements and shall be orange in color.

526.3 Construction Requirements

The following paragraphs are added:

Temporary barrier markers shall be mounted as follows:

1. One on every fourth barrier in tangents and one on every two barriers in tapers, including all barrier furnished by the Contractor.
2. Delineators shall be physically adhered so as to withstand the force of throw from a snow plow.
3. If more than 25% of delineators in any 50 foot section of barrier fall off for any reason, the Contractor will be responsible for reinstalling all the delineators in that run at that their own cost.
4. Contractor is required to submit the installation method for review and approval to the Resident.

526.4 Method of Measurement

The following paragraphs are added:

Temporary barrier markers shall not be measured for payment separately but shall be incidental to the temporary barrier item.

526.5 Basis of Payment

The following paragraphs are added:

Temporary barrier markers shall not be paid for separately but shall be incidental to the temporary barrier item.

SPECIAL PROVISION

SECTION 526

CONCRETE BARRIER

(Temporary Concrete Barrier Type I - Supplied by Authority)

526.01 Description

The following paragraphs are added:

This work shall consist of loading, transporting, setting, resetting, removing, transporting and stacking Temporary Concrete Barrier Type I – Supplied by Authority. The barrier shall have attachments allowing individual sections to be connected into a continuous barrier.

The work also includes supplying connecting pins and furnishing and mounting retro-reflective delineators, per Subsection 526.02 and 526.03.

Concrete barriers supplied by Authority shall be available at the following location(s):

<u>Maintenance Area</u>	<u>Linear Feet of Barrier</u>
Crosby Maintenance Area Mile 45.8 Southbound	925

Upon substantial completion of work, the Contractor shall remove and transport the barrier back to its maintenance area of origin. All barrier shall be returned, sorted and stacked according to type in locations directed by the project Resident or maintenance area foreman.

526.02 Materials

The following paragraphs are added:

- e. Delineators shall be bi-directional with a minimum effective reflective area of eight square inches as approved by the Resident. The reflectors shall be methyl methacrylate and the housing of acrylonitrile butadiene styrene. Color shall be in accordance with the MUTCD.

526.021 Acceptance

The Resident shall have the authority to accept or reject all Temporary Concrete Barrier Type I – Supplied by Authority used on the Project that does not meet the requirements of this specification

526.03 Construction Requirements

The following paragraphs are added:

The Contractor shall notify the Resident prior to the scheduled pick-up and delivery of concrete barrier. No barrier shall be removed from or stacked at the Turnpike Maintenance Area without approval of the Resident.

The Contractor shall move and place barrier-utilizing methods that will not damage the barrier. Barrier that is damaged by the Contractor by failing to use proper methods shall be replaced by the Contractor at no additional cost to the Maine Turnpike Authority.

Concrete barrier supplied by the Authority consists of several different styles. Not all barriers may be compatible. The Contractor shall utilize caution when setting barrier to use identical barrier types as adjacent barrier. Non-compatible barrier that cannot be attached together shall be overlapped by a minimum of 10 feet with the blunt end on the non-traffic side of the barrier. This work will not be measured separately for payment, but shall be incidental to the concrete barrier.

Concrete barrier placed at roadway low points shall be shimmed on 1" by 2" by 2' long wood planks to allow drainage to pass under the barrier. In addition, the Resident may direct the Contractor to shim the concrete barrier at other locations to provide for proper roadway drainage. All labor, material, and equipment necessary to shim the barrier will not be measured separately for payment, but shall be incidental to the Concrete Barrier.

The removal of concrete barrier from adjacent to the travel lane may be conducted without a lane closure if it is accomplished in accordance with the following requirements:

1. Barrier is removed from the trailing end and the workmen and equipment involved in the operation are always behind the barrier. No workmen or equipment shall enter the travel lane.
2. Barrier shall be dragged away from the travel lane to at least a 30-degree angle by the use of a cable.
3. Barrier shall be lifted no more than six inches while within 10 feet of the travel lane.

Retro-Reflective Delineators shall be mounted as follows:

4. One on top of each barrier.
5. One on the traffic side of every barrier used in a taper.
6. One on the traffic side of every other barrier at regularly spaced intervals and locations.
7. Delineators shall be installed on both sides of the barrier if barrier is used to separate opposing traffic.
8. Delineators shall be physically adhered so as to withstand the force of throw from a snow plow.
9. If more than 25% of delineators in any 50 foot section of barrier fall off for any reason, the Contractor will be responsible for reinstalling all the delineators in that run at that their own cost.

10. Contractor is required to submit the installation method for review and approval to the Resident.

526.04 Method of Measurement

The following paragraphs are added:

Temporary Concrete Barrier Type I – Supplied by Authority shall be measured for payment by the lump sum.

The loading, transporting, setting, resetting, removing, transporting, sorting and stacking of the barrier, the furnishing, installation and maintenance of the barrier delineators, and furnishing and installing connector pins will not be measured separately for payment, but shall be incidental to the cost of the Barrier. Temporary storage of Concrete Barrier between construction phases, if required, will not be measured separately for payment, but shall be incidental to the cost of the Barrier. All equipment required to load, unload, transport and stack Concrete Barrier shall be supplied by the Contractor.

Any Barrier lost or damaged by the Contractor shall be replaced by the Contractor at no additional cost to the Authority.

526.05 Basis of Payment

The fifth paragraph is deleted and not replaced.

The following paragraphs are added:

Temporary Concrete Barrier Type I – Supplied by Authority will be paid for at the Contract lump sum price, complete in place. Such payment shall be full compensation for loading, transporting, setting, resetting, temporary storage, removing, transporting and stacking at the area designated, furnishing all materials, and all other incidentals necessary to complete the work. Temporary Concrete Barrier Type I – Supplied by Authority and all connecting pins shall remain the property of the Authority, and shall be returned to the Turnpike Maintenance Area as designated in Subsection 526.01.

Payment of Concrete Barrier shall be based on a percentage of the work accomplished during that pay period.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
526.306	Temporary Concrete Barrier, Type I – Supplied by Authority	Lump Sum

SPECIAL PROVISION

SECTION 527

ENERGY ABSORBING UNIT

(Work Zone Crash Cushion)
(Resetting Existing Work Zone Crash Cushions)

527.01 Description

The first paragraph is deleted in its entirety and replaced with the following:

The Contractor shall furnish and install, or reset work zone crash cushions where shown on the Plans, as specified herein, in Special Provision 652, or as approved by the Resident. Work zone crash cushions are required at each exposed end of temporary concrete barrier or guardrail.

The exposed end of the concrete barrier within 30 feet of the mainline travel lane shall be protected at all times. Barrier shall not be reset until after the work zone crash cushion(s) has been set to protect the exposed end of the barrier.

527.02 Materials

The following paragraph is added:

Work zone crash cushions fabricated prior to December 31, 2019 in serviceable condition shall meet the requirements of NCHRP 350 TL-3 crash test requirements and work zone crash cushions fabricated after December 31, 2019 shall meet the MASH TL-3 crash test requirements for use on the turnpike and local roadways with posted speeds of 45 MPH or greater. Work zone crash cushions fabricated prior to December 31, 2019 shall meet in serviceable condition shall meet the requirements of NCHRP 350 TL-2 crash test requirements and work zone crash cushions fabricated after December 31, 2019 shall meet the MASH TL-2 crash test requirements for use on local roadways with posted speeds of 40 MPH or less. The Contractor shall provide the Resident with documentation of the proposed work zone crash cushion's MASH Crash Test Results prior to installation at the jobsite.

527.03 Construction Requirements

The following is added to the end of the first paragraph:

The design speeds for work zone crash cushions shall be 45 mph for local road and 70 mph for turnpike roadways unless otherwise noted on the Plans.

527.04 Method of Measurement

Work Zone Crash Cushions used to protect exposed ends of guardrail for steel girder erection will not be measured separately for payment but shall be included under the Maintenance of Traffic for Steel Girder Erection item.

Replacement barrels, after collisions, will be paid for as a percentage of the individual barrels damaged to the total barrels in the complete system. The removal of impacted barrels and debris will be considered incidental to the replacement barrels. Barrels on hand, but unused will not be paid for directly.

Resetting Existing Work Zone Crash Cushion will be measured by the Unit, complete in place and accepted.

527.05 Basis of Payment

Resetting Existing Work Zone Crash Cushion will be measured by the Unit, complete in place and accepted.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
527.341	Work Zone Crash Cushions – TL-3	Unit
527.342	Work Zone Crash Cushions – TL-2	Unit
527.343	Resetting Existing Work Zone Crash Cushion	Unit