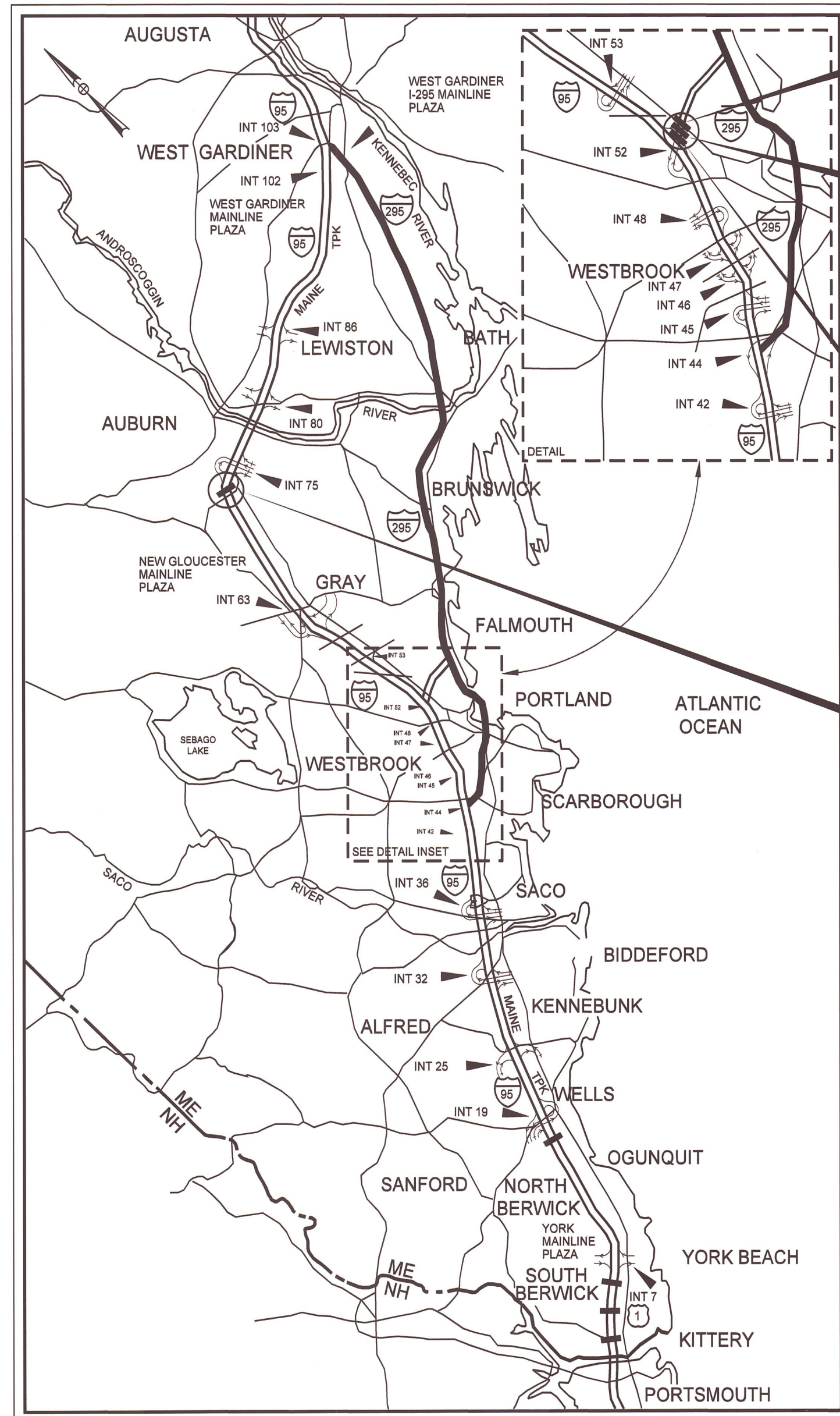


Date: 3/26/2024

Filename: ...001_title.dgn



LOCATION MAP



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 MICHAEL J. CIANCHETTE, VICE CHAIR
 ANDREW J. MCLEAN, MEMBER
 JANE L. LINCOLN, MEMBER
 THOMAS J. ZUKE, MEMBER
 BRUCE A. VAN NOTE, EX-OFFICIO MEMBER

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2024.07

BRIDGE REPAIRS

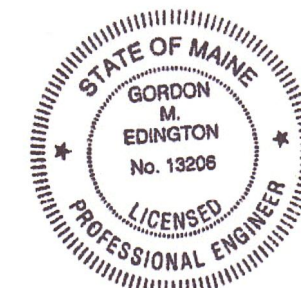
- ST. LAWRENCE & ATLANTIC RR OVERPASS (MM 74.50)**
- BLACKSTRAP ROAD OVERPASS (MM FS0.40)**
- MCRR OVERPASS (EB/WB) (MM FS0.50/FS0.51)**
- GRAY ROAD (ROUTE 26 & 100) UNDERPASS (MM FS0.70)**

INDEX OF SHEETS	
Sheet No.	Description
1	Title Sheet
2	Estimated Quantities
3	General Notes
4	Miscellaneous Repair Details
5-23	Maintenance of Traffic Details
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24	Bridge Plan and Elevation
25	Bridge Typical Section
26	Bridge Joint Modifications
27	Bridge Rail Details
Structure 2 Blackstrap Road Overpass Bridge	
28	Bridge Plan and Elevation
29	Bridge Typical Section
30	Bridge Joint Modifications
Structure 3 MCRR Overpass Bridge	
31	Bridge Plan and Elevation
32	Bridge Typical Section
33	Bridge Joint Modifications
Structure 4 Gray Road (Route 26 & 100) Underpass Bridge	
34	Bridge Plan and Elevation
35	Bridge Typical Section
36	Abutment No. 1 Repairs
37	Abutment No. 2 Repairs
38	Bridge Joint Modifications

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER
 DATE: 3/27/24

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E., - CHIEF ENGINEER & DIRECTOR OF ENGINEERING
 DATE: 3/27/24



Gordon Edington
 Gordon M. Edington, P.E.
 Consultant Project Manager

3/26/2024
DATE



Contract 2024.07

Date: 3/26/2024

ESTIMATED QUANTITIES							
ITEM NO.	DESCRIPTION	UNIT	St. Lawrence & Atlantic RR	Blackstrap Road	MCR	Gray Road (Route 26 & 100)	Quantity Total
202.1211	Removing Existing Girder Haunches	LF				1,350	1,350
202.127	Removing Existing Pavement and High Performance Waterproofing Membrane	SY	800				800
202.202	Removing Pavement Surface	SY	750	1,670	2,210	245	4,875
202.206	Removing Rumble Strips	LF	1,700				1,700
202.912	Removing Existing Conduit	LS				1	1
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	TON	140	137	186	20	483
409.15	Bituminous Tack Coat RS-1 or RS1h - Applied	GAL	95	70	90	10	265
502.7011	Weep Drain Extensions	EA	24	45		3	72
507.812	Aluminum Bridge Rail, 2 Bar Repair	(20 LF) LS	1				1
508.14	High Performance Waterproofing Membrane	(780 SY) LS	1				1
515.201	Pigmented Protective Coating for Concrete Surfaces	SY				130	130
515.202	Clear Protective Coating for Concrete Surfaces	SY	165	270	370	180	985
518.10	Abutment Repairs	SF				45	45
518.391	Repairing Granite Curb Joint and Bedding Mortar	LF				50	50
518.4	Epoxy Injection Crack Repair	LF				17	17
518.70	Repair of Overhead Surfaces < 8 inches	SF	40				40
518.80	Partial Depth Concrete Deck Repairs	SF	240				240
518.81	Full Depth Concrete Deck Repairs	SF	120				120
518.864	Elastomeric Concrete Header Repair *	CF	80	65	70	20	235
520.23	Asphaltic Plug Joint	LF		90	103		193
520.234	Expansion Device - Silicone Coated and Pre-compressed Seal	LF	70		6		76
520.234	Expansion Device - Silicone Coated and Pre-compressed Seal (Gray Road)	LF				45	45
520.921	Bridge Joint Modification (St. Lawrence & Atlantic)	EA	2				2
520.922	Bridge Joint Modification (Gray Road - Abutment 2)	EA				1	1
526.306	Temporary Concrete Barrier, Type 1 - Supplied by the Authority (St. Lawrence & Atlantic RR)	LS	1				1
526.306	Temporary Concrete Barrier, Type 1 - Supplied by the Authority (Blackstrap & MCR)	LS		1			1
527.341	Work Zone Crash Cushions - TL-3	Unit	2	4			6
606.24	Guardrail Type 3d - Single Rail	LF				15	15
609.13	Vertical Bridge Curb Type 1	LF				36	36
652.30	Flashing Arrow	EA	2	1		2	5
652.33	Drum	EA	198	102		100	400
652.34	Cone	EA	25	50		50	125
652.35	Construction Signs	SF	1,038	517		613	2,168
652.361	Maintenance of Traffic Control Devices (St. Lawrence & Atlantic RR)	LS	1				1
652.361	Maintenance of Traffic Control Devices (Blackstrap & MCR)	LS		1			1
652.361	Maintenance of Traffic Control Devices (Gray Road)	LS				1	1
652.38	Flagger	HR				1,120	1,120
652.41	Portable Changeable Message Sign	EA	2	3		2	7
652.47	Sequential Flashing Warning Lights	EA	44	81		30	155
656.75	Temporary Soil Erosion and Water Pollution Control	LS		1			1
659.10	Mobilization	LS		1			1

* Elastomeric Concrete Header Repair quantity is based on an average depth of 4" which includes 3" for the header and additional depth for repairs

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Scale:		Designed by:				VANASSE HANGEN BRUSTLIN, INC. 500 Southborough Dr. Suite 105B South Portland, ME 04106 TEL (207) 889-3150 FAX (207) 253-5596				THE GOLD STAR MEMORIAL HIGHWAY		MTA PROJECT NO. 2024.07 BRIDGE REPAIRS ESTIMATED QUANTITIES	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: G. Edington									
				Designed	MFS	3/26/24	Checked	MEB	3/26/24	VHB: 55729.00			SHEET NUMBER: 2
				Drawn	TSR	3/26/24	In Charge of	GME	3/26/24	CONTRACT: 2024.07			2 OF 38
								MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC					

SPECIFICATIONS

Design: AASHTO LRFD Bridge Design Specifications, 2020.

Construction: State of Maine Department of Transportation Standard Specifications, 2014 Edition, with all revisions thereto.

State of Maine Department of Transportation Standard Details for Highways and Bridges, 2020 Edition, with all revisions thereto.

AASHTO LRFD Bridge Construction Specifications, Fourth Edition

NEW MATERIALS

Concrete (Unless noted otherwise) Class AAA - Modified
Reinforcing Steel ASTM A615/A615M, Grade 60

Structural Steel:
All Material (except as noted) ASTM A709/A709M, Grade 36
High Strength Bolts (except as noted) ASTM A325, Type I

BASIC DESIGN STRESSES (NEW MATERIALS)

Concrete $f'c = 4,500 \text{ psi}$

Reinforcing Steel $fy = 60,000 \text{ psi}$

Structural Steel:
ASTM A 709/A 709M, Grade 36 $Fy = 36,000 \text{ psi}$
ASTM A 325 $Fu = 120,000 \text{ psi}$

TRAFFIC AND DESIGN LOADING DATA

ST. LAWRENCE & ATLANTIC RR OVERPASS BRIDGE

Design Live Load (for existing components) Unknown
AADT 22,250
Design Speed (MPH) (for existing) 65
Functional Class Interstate

BLACKSTRAP ROAD OVERPASS BRIDGE

Design Live Load (for existing components) HL-93 Modified
AADT 14,150
Design Speed (MPH) (for existing) 60
Functional Class Interstate

MCRR OVERPASS BRIDGE

Design Live Load (for existing components) HL-93
AADT 11,540
Design Speed (MPH) (for existing) 60
Functional Class Interstate

GRAY ROAD (ROUTE 26 & 100) UNDERPASS BRIDGE

Design Live Load (for existing components) H20-44
AADT 11,540
Design Speed (MPH) (for existing) 35
Functional Class Other Principal Arterial

GENERAL CONSTRUCTION NOTES

- All details shall be in conformance with Maine Department Transportation (MaineDOT) 2020 Standard Details for Highways and Bridges with all updates and MaineDOT Best Management Practices for Erosion and Sediment Control, latest revision unless otherwise noted in these plans.
- All work shall be completed within the Right of Way.
- The Contractor shall submit proposed staging area(s) and field trailer location to the Resident for approval prior to starting work.
- Any portions of the existing bridges removed by the Contractor shall become the property of the Contractor. The steel portions of the existing bridges may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the work of this project.
- Copies of the As-Built plans are posted on the Maine Turnpike Authority website at www.maine Turnpike.com/projects/construction-contracts. The completeness and accuracy of these plans is not guaranteed.
- Chamfer all exposed new concrete edges $\frac{3}{4}$ " unless otherwise noted.
- At all structures pigmented protective coating for concrete surfaces shall be applied to the following areas:
- Exposed concrete surfaces of the abutments as shown in these plans.
- At all structures clear protective coating for concrete surfaces shall be applied to the following areas:
- All exposed median concrete.
- All overhang and fascia concrete as shown in these plans.
- All bridge curbs, parapets, and transition barriers as shown in these plans.
- At all structures the bridge seat shall be cleaned before applying pigmented protective coating.
- The Contractor shall place approach pavement at all locations to achieve a smooth transition between existing and proposed pavement.
- Prior to the removal of any pavement, the Contractor shall document the location, type and color of all pavement striping and provide that information to the Resident. The Maine Turnpike Authority will place all new striping at no cost to the Contractor.
- A bead of Hot-Applied Rubberized asphalt sealer shall be applied along curb lines after installation of base course pavement. Payment shall not be made directly but shall be considered incidental to related contract items.

EROSION CONTROL NOTES



- All temporary and permanent erosion control devices shall be installed in accordance with the Maine Department of Transportation Best Management Practices.

UTILITIES NOTES



- Existing utilities were not located for these plans. No work shall be started until the owners of the various utilities are notified by the Contractor of the proposed construction. The Contractor is also required to call Dig Safe at 1-888-344-7233 at least 72 hours prior to the start of the work.
- The Contractor shall contact all non-members through www.OKtoDIG.com or as otherwise required by the Maine Public Utilities Commission. All proposed excavation locations shall be marked at the time of notification. No excavation shall be permitted until the authority has located and marked it's underground utilities. The Resident Engineer shall be provided a digital copy of all Dig Safe tickets within 24 hours of their release for project notifications and 3rd party utility locator coordination.
- The Contractor shall notify the Resident 10 calendar days prior to submitting a utility locate request through Dig Safe so that the Resident can arrange for Maine Turnpike underground utility location. All proposed sign locations and excavation locations shall be marked at the notification time.
- Contractor shall protect all existing utilities from damage during the construction as approved by the utility owners.

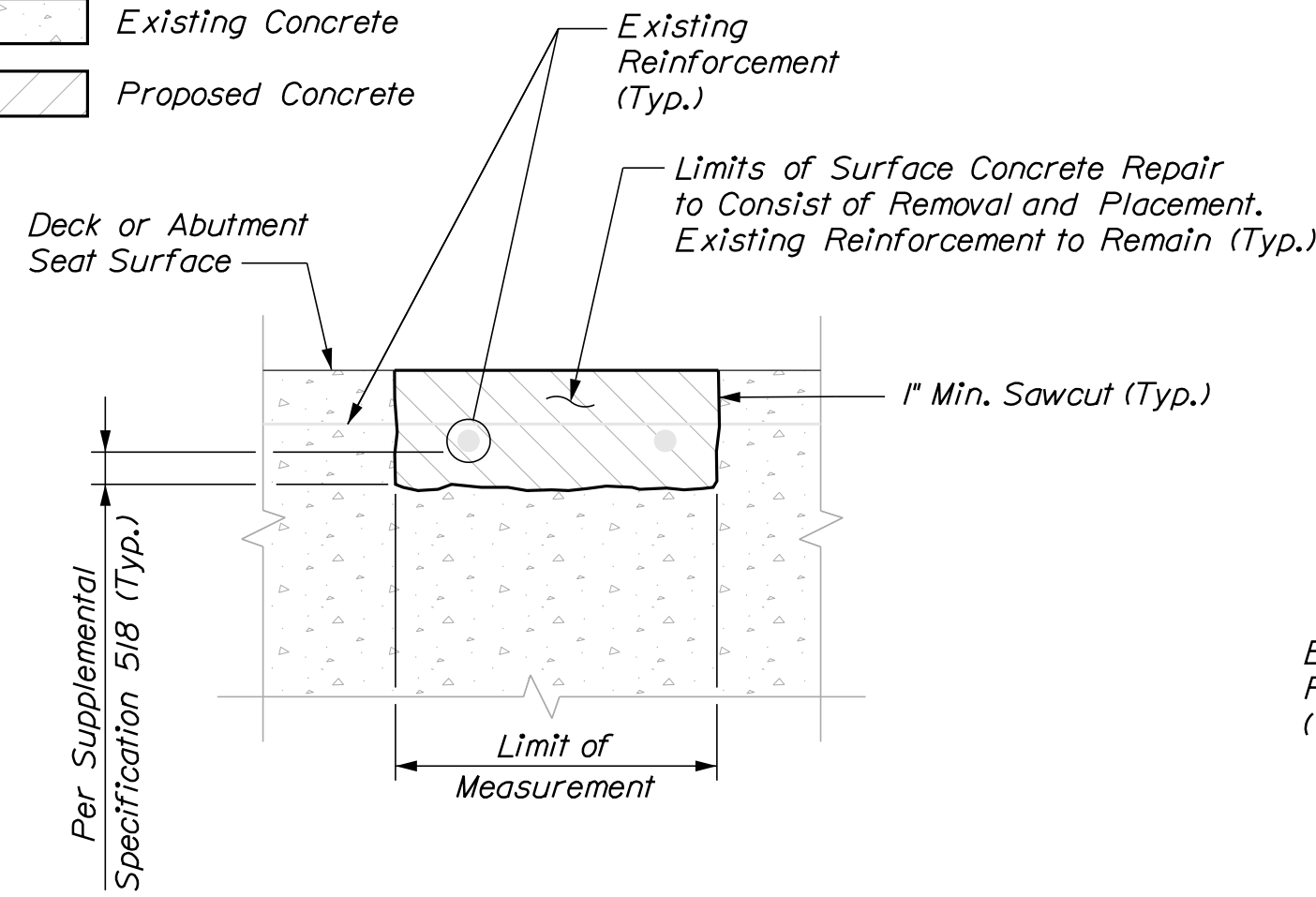
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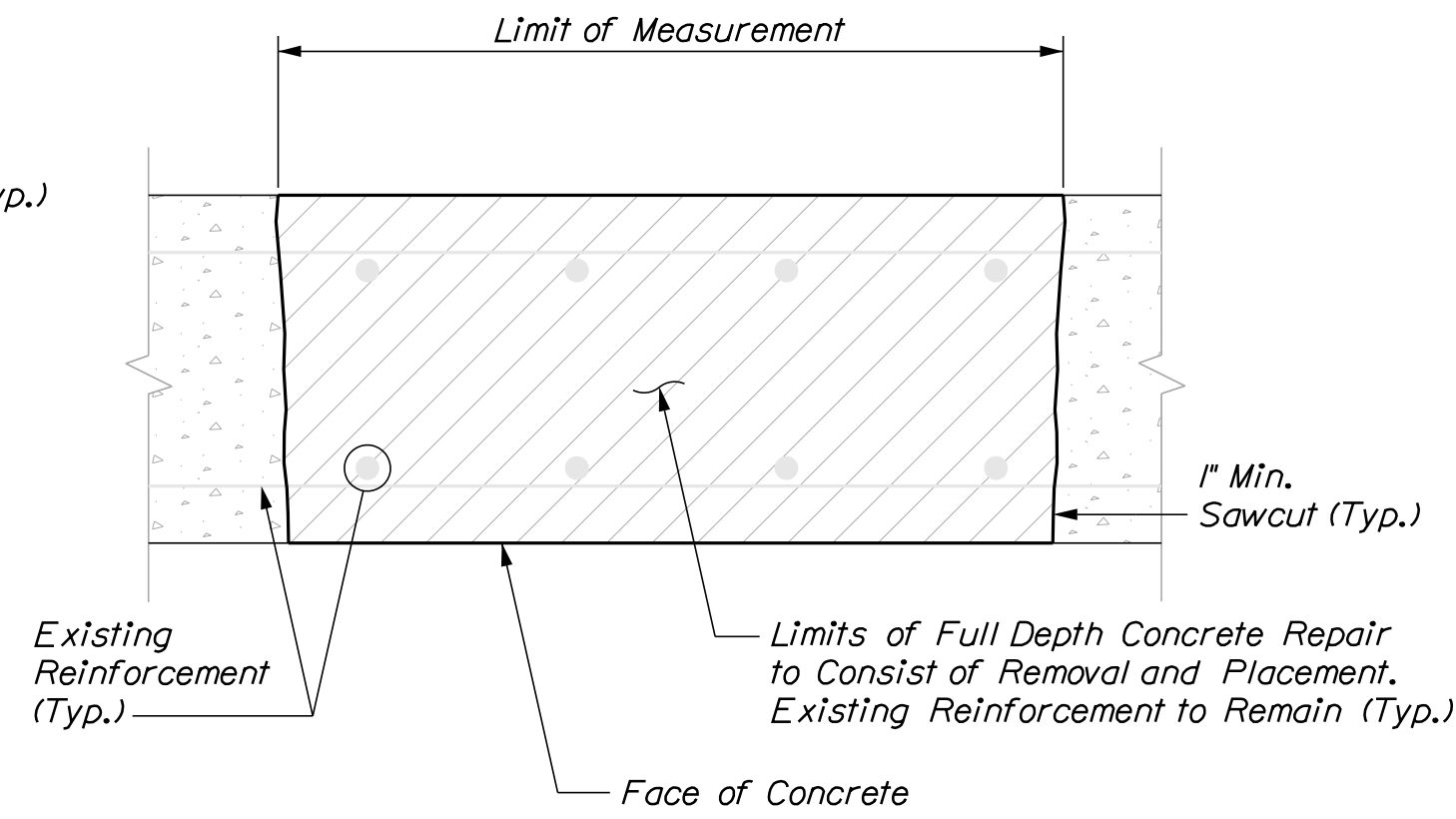
Scale:	Designed by:		VANASSE HANGEN BRUSTLIN, INC. 500 Southborough Dr. Suite 105B South Portland, ME 04106 TEL (207) 889-3150 FAX (207) 253-5596		THE GOLD STAR MEMORIAL HIGHWAY	MTA PROJECT NO. 2024.07 BRIDGE REPAIRS GENERAL NOTES																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date																	CONSULTANT PROJECT MANAGER: G. Edington		MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC		SHEET NUMBER: 3 3 OF 38
No.	Revision	By	Date																							
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>MFS</td> <td>3/26/24</td> <td>Checked</td> <td>MEB</td> <td>3/26/24</td> </tr> <tr> <td>Drawn</td> <td>TSR</td> <td>3/26/24</td> <td>In Charge of</td> <td>GME</td> <td>3/26/24</td> </tr> </tbody> </table>			By	Date		By	Date	Designed	MFS	3/26/24	Checked	MEB	3/26/24	Drawn	TSR	3/26/24	In Charge of	GME	3/26/24			VHB: 55729.00 CONTRACT: 2024.07		
	By	Date		By	Date																					
Designed	MFS	3/26/24	Checked	MEB	3/26/24																					
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24																					

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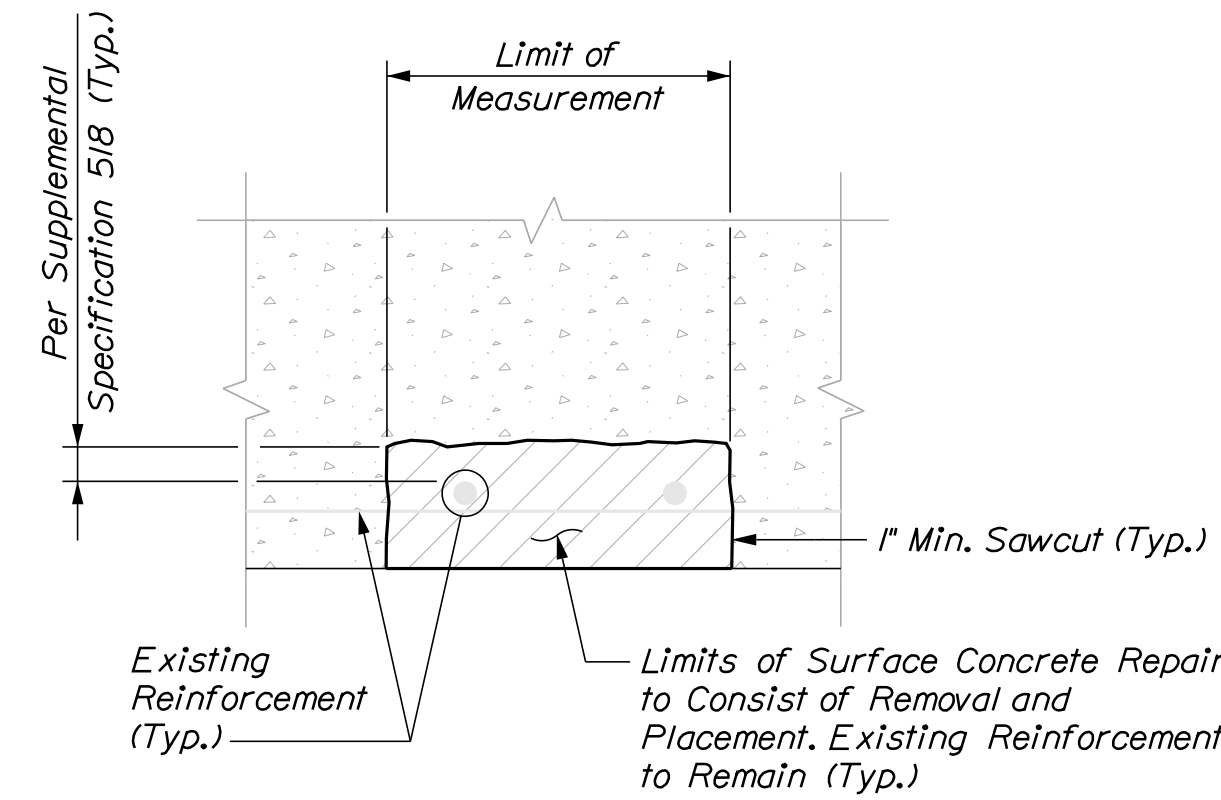
-  Existing Concrete
-  Proposed Concrete



TYPICAL HORIZONTAL SURFACE CONCRETE REPAIR DETAILS



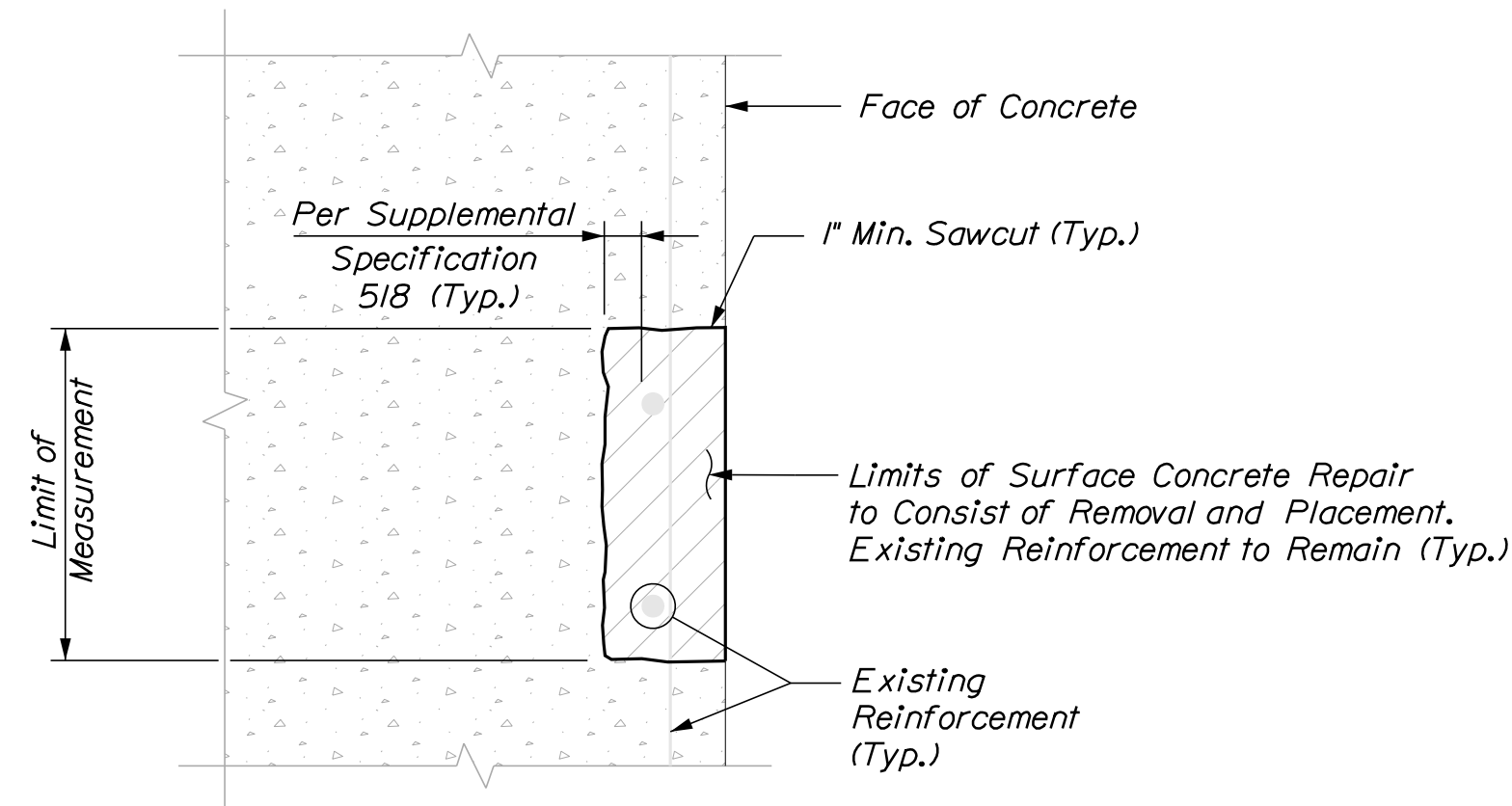
TYPICAL FULL DEPTH CONCRETE REPAIR DETAILS



TYPICAL OVERHEAD SURFACE CONCRETE REPAIR DETAILS

EPOXY INJECTION CRACK REPAIR NOTES

1. All crack repairs shall be completed by an individual qualified and experienced in the type of repairs proposed.
2. All crack repairs shall be completed in accordance with Supplemental Specification 518.
3. Where epoxy injection crack repair is specified the work shall include pressure injection of cracks 1/16" or more in width. Work shall be paid under Item 518.4 Epoxy Injection Crack Repair.



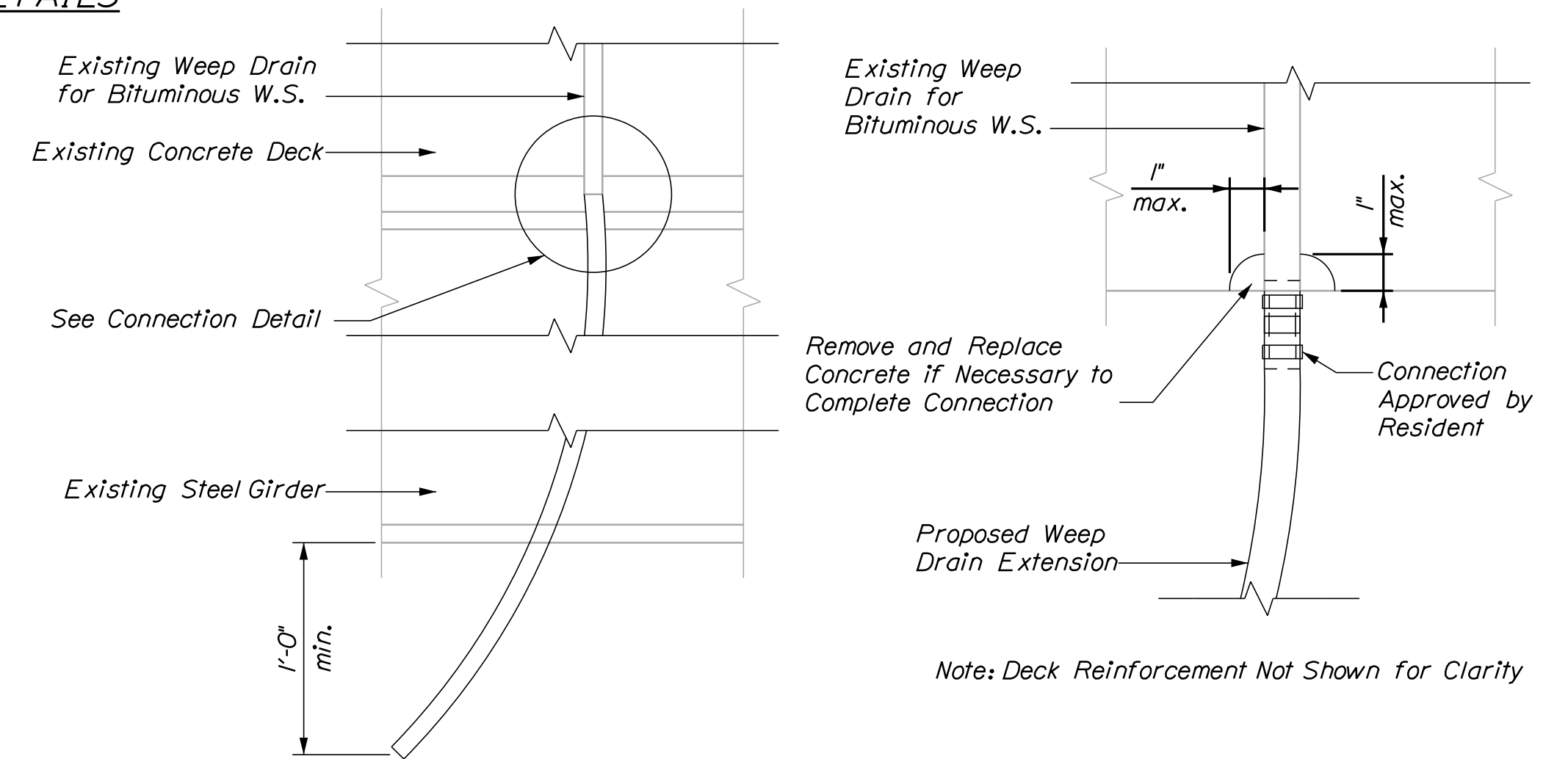
TYPICAL VERTICAL SURFACE CONCRETE REPAIR DETAILS

CONCRETE REPAIR NOTES

1. Repair work shall include: surface concrete repairs, epoxy injection crack repair and providing access for inspection.
2. Where surface concrete repairs are specified the work shall include removal of unsound concrete and placement and curing of repair materials. Repairs shall be measured for payment under, 202.1211 Removing Existing Girder Haunches, 518.10 Abutment Repairs, 518.70 Repair of Overhead Surfaces < 8 inches, 518.81 Full Depth Concrete Deck Repair, 518.80 Partial Depth Concrete Deck Repairs.
3. Prior to the start of any concrete repairs the Resident and the Contractor shall sound all concrete surfaces and agree on the repair limits. Estimated repair quantities may increase or decrease at the Resident's discretion.
4. The estimated repair quantities are based on inspections completed in September 2023 - October 2023.

CONCRETE REPAIR PROCEDURE

1. Perform 1" deep saw cuts along limits of removal.
2. Chip concrete to the depth specified in Supplemental Specification 518. If the removal limits change during the demolition process the Contractor shall notify the Resident. The Resident and Contractor shall agree on the revised pay limits prior to the Contractor continuing the removal.
3. Prepare and patch repair areas with Class AAA modified concrete or other materials selected from the applicable non-emergency list of materials in Supplemental Specification 518.
4. Perform general finishing.



WEEP DRAIN EXTENSION
Not to Scale

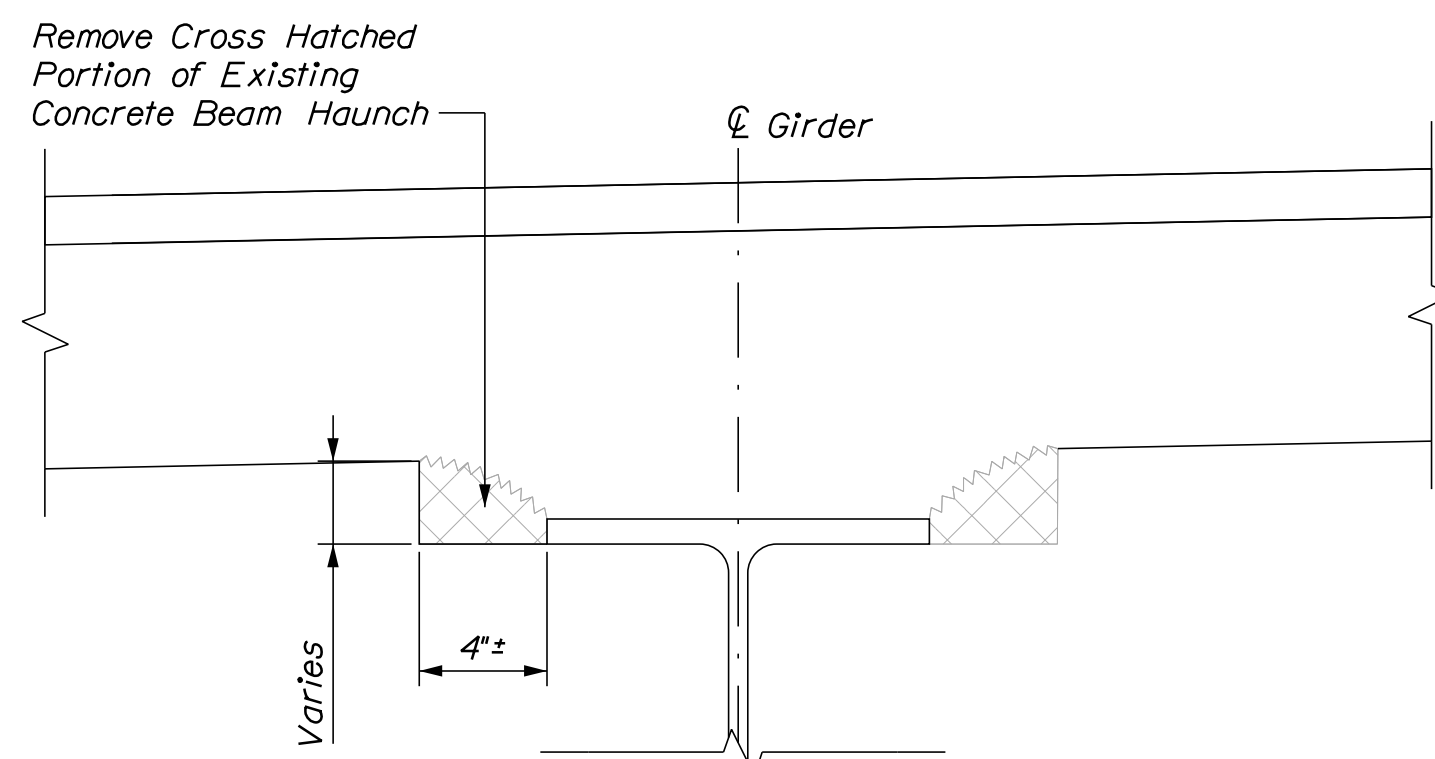
WEEP DRAIN CONNECTION DETAIL
Not to Scale

WEEP DRAIN EXTENSION NOTES:

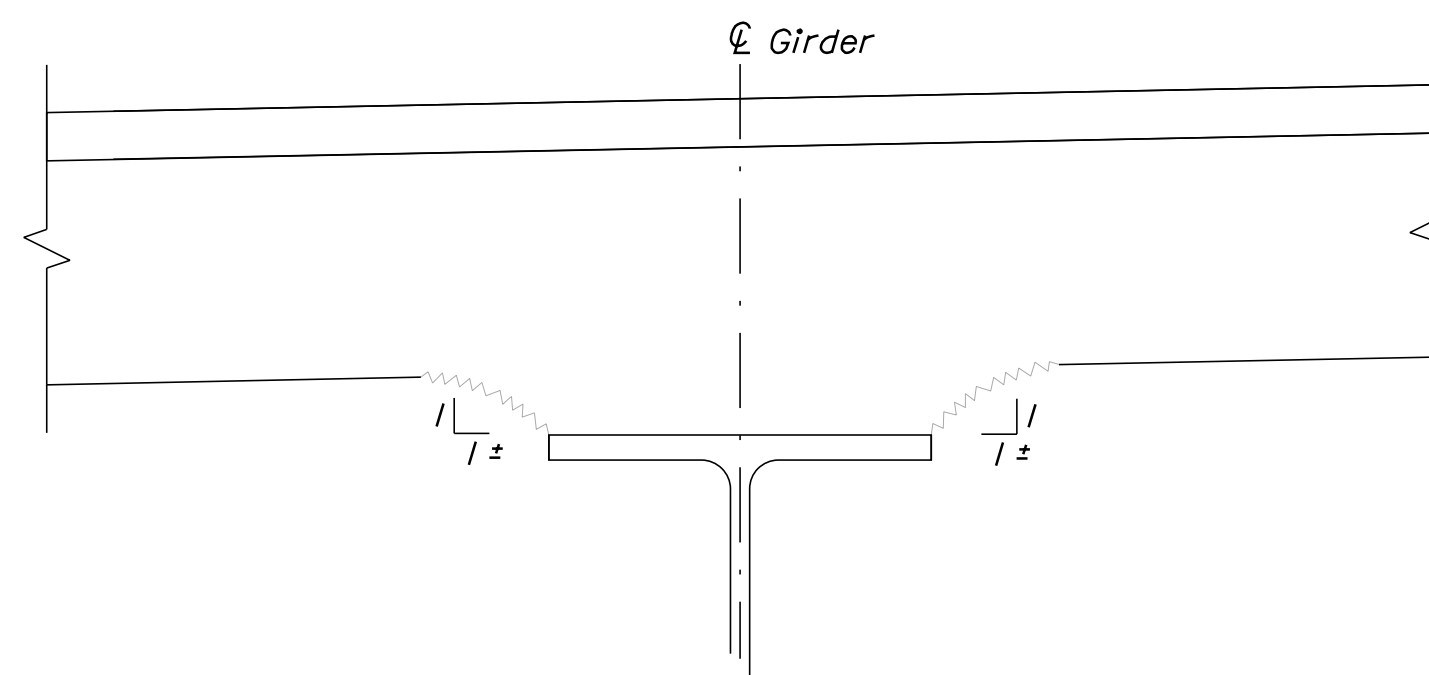
1. All PVC deck weeps which drain onto piers, abutments or structural steel shall be extended and diverted away from bridge components below deck, and shall extend 1 ft below bottom flange, as directed by the Resident. Payment shall be made under pay Item 502.7011, Weep Drain Extensions.

CONCRETE HAUNCH REMOVAL NOTES

1. The removal of the portion of the concrete haunch shown shall be paid for at the contract unit price per linear foot under Item 202.1211, Removing Existing Girder Haunch. The Haunch on each side of the girder shall be measured separately for payment.
2. If over-removal results, apply two coats of epoxy resin to deck reinforcing steel exposed during haunch removal. All reasonable precautions shall be taken to avoid this condition. Epoxy resin and application shall be incidental to Item 202.1211, Removing Existing Girder Haunch.
3. After concrete removal, the exposed concrete shall be sealed with clear protective coating. Clear protective coating and application shall be incidental to Item 202.1211 Removing Existing Girder Haunch.
4. Prior to the start of any concrete haunch removal, the Resident and Contractor shall jointly inspect all haunches for removal and agree on the removal limits. Estimated haunch removal quantities may increase or decrease at the Resident's discretion.



EXISTING CONDITION
Not to Scale



FINAL CONDITION
Not to Scale

CONCRETE HAUNCH REMOVAL DETAILS

Date: 3/26/2024

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Designed by:



VANASSE HANGEN BRUSTLIN, INC.
500 Southborough Dr.
Suite 105B
South Portland, ME 04106
TEL (207) 889-3150
FAX (207) 253-5596



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT NO. 2024.07
BRIDGE REPAIRS
MISCELLANEOUS REPAIR DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 4
4 OF 38

Date: 3/26/2024

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 lane closures are in place.
8. Construction along mainline Falmouth Spur shall not occur for the Gray Road (Route 26 & 100) Underpass at the same time as the Blackstrap Road Overpass/MCRR Overpass.

ST. LAWRENCE & ATLANTIC RAILROAD NOTES

1. Mainline work shall follow the MTA standard details for any shoulder closures.
2. A left lane closure and a right lane closure site specific traffic control plans have been shown with temporary barrier.
3. With the use of the temporary concrete barrier, the travel lane can only be 13 feet wide, therefore the lane closure must be combined with a wide load detour to avoid the narrow section required for the bridge repairs.
4. Work zone speed limit shall be 60 mph.

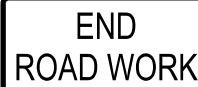



BLACKSTRAP ROAD OVERPASS AND MCRR OVERPASS NOTES

1. A left lane closure and a right lane closure traffic control plan has been shown with temporary barrier. Due to the proximity of the on-ramp a site specific traffic control plan has been provided.
2. If the work at the Blackstrap Road Overpass and MCRR Overpass is completed at different times for both bridges, the temporary barrier for the bridge that is not being worked on may be omitted.
3. Work zone speed limit shall be 45 mph.



GRAY ROAD (ROUTE 26 & 100) UNDERPASS NOTES

1. Westbound Falmouth Spur mainline lane closures for haunch removal shall follow standard single lane closures for both the outside and median lanes. See maintenance of traffic details.
2. Work zone speed limit along Falmouth Spur mainline shall be 50 mph.
3. Eastbound Falmouth Spur mainline lane closure for haunch removal shall follow the site specific plans.
4. Gray Road surface repairs shall be completed using flagging traffic control; see attached plan.

GRAY ROAD (ROUTE 26 & 100) 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"	2 - Black on Orange
W20-1 			36"x36"	2 - Black on Orange
W20-4 			36"x36"	2 - Black on Orange
W20-7 			36"x36"	2 - Black on Orange

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Scale:	Designed by: <div style="text-align: center;">  </div>	VANASSE HANGEN BRUSTLIN, INC. 500 Southborough Dr. Suite 105B South Portland, ME 04106 TEL (207) 889-3150 FAX (207) 253-5596	 <p>THE GOLD STAR MEMORIAL HIGHWAY</p>	MTA PROJECT NO. 2024.07 BRIDGE REPAIRS MAINTENANCE OF TRAFFIC DETAILS (01 OF 03)																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Revision	By	Date					CONSULTANT PROJECT MANAGER: G. Edington	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>MLG 3/26/24</td> <td>Checked</td> <td>MDS 3/26/24</td> </tr> <tr> <td>Drawn</td> <td>JAR 3/26/24</td> <td>In Charge of</td> <td>GME 3/26/24</td> </tr> </tbody> </table>	By	Date	By	Date	Designed	MLG 3/26/24	Checked	MDS 3/26/24	Drawn	JAR 3/26/24	In Charge of	GME 3/26/24	MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC	VHB: 55729.00 CONTRACT: 2024.07	SHEET NUMBER: 5 5 OF 38
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Designed	MLG 3/26/24	Checked	MDS 3/26/24																						
Drawn	JAR 3/26/24	In Charge of	GME 3/26/24																						

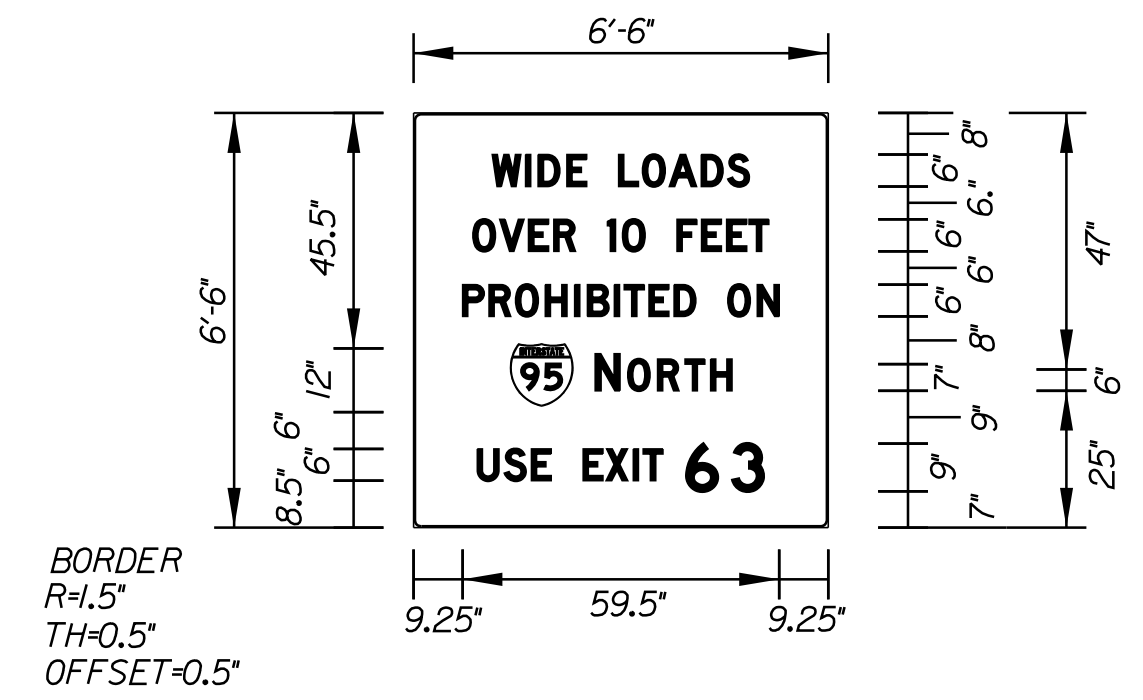
TEMPORARY SINGLE LANE CLOSURES

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		48"x24"	8 - Black on Orange
G20-5aP			36"x24"	7 - Black on Orange
R1-2			48"x48"x48"	1 - White on Red
R2-1(45)			48"x60"	3 - Black on White
R2-1(50)			48"x60"	2 - Black on White
R2-1(60)			48"x60"	4 - Black on White
R2-6aP			36"x24"	5 - Black on White
R2-12			36"x54"	8 - Black on White
W1-4R			48"x48"	1 - Black on Orange
W3-2			48"x48"	1 - Black on Orange
W3-4			48"x48"	4 - Black on Orange
W3-5(45)			48"x48"	2 - Black on Orange
W3-5(50)			48"x48"	4 - Black on Orange
W3-5(60)			48"x48"	4 - Black on Orange
W4-1R			48"x48"	1 - Black on Orange

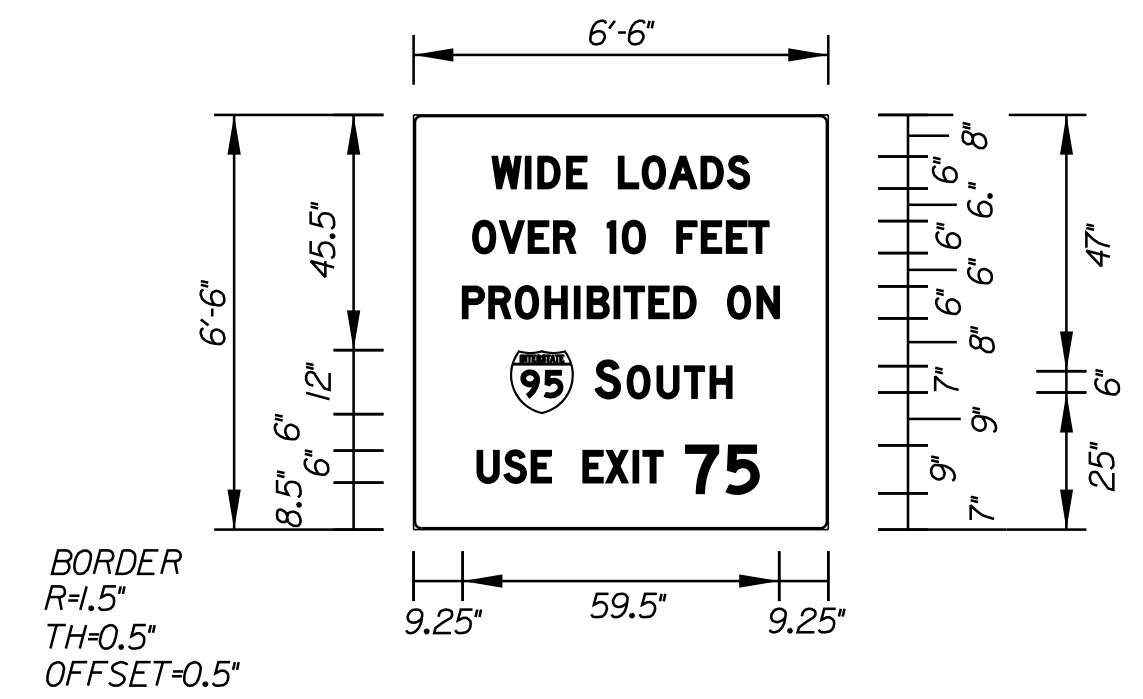
TEMPORARY SINGLE LANE CLOSURES (CONT.)

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W4-2L	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48"	8 - Black on Orange
W4-2R			48"x48"	8 - Black on Orange
W4-5aP			24"x30"	1 - Black on Orange
W5-4			48"x48"	2 - Black on Orange
W13-4p			36"x36"	2 - Black on Orange
W20-1			48"x48"	6 - Black on Orange
W20-1 (AHEAD)			48"x48"	4 - Black on Orange
W20-5L			48"x48"	6 - Black on Orange
W20-5L (AHEAD)			48"x48"	4 - Black on Orange
W20-5R			48"x48"	6 - Black on Orange
W20-5R (AHEAD)			48"x48"	4 - Black on Orange
CS-1	See Detail		78"x78"	1 - Black on Orange
CS-2	See Detail		78"x78"	2 - Black on Orange
CS-3	7" 7" 7"	4" 4"	48"x48"	6 - Black on Orange
CS-4	See Detail		78"x78"	3 - Black on Orange
CS-5	See Detail		78"x78"	1 - Black on Orange

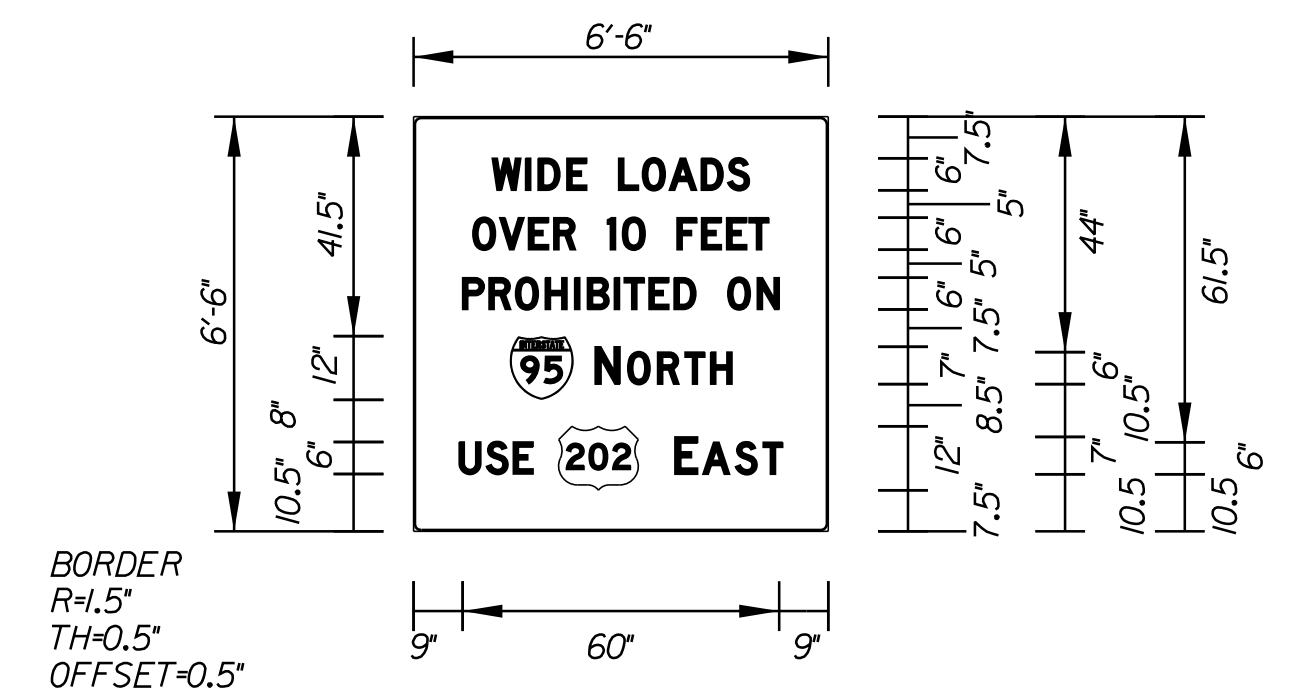
CS-1 GUIDESIGN LAYOUT



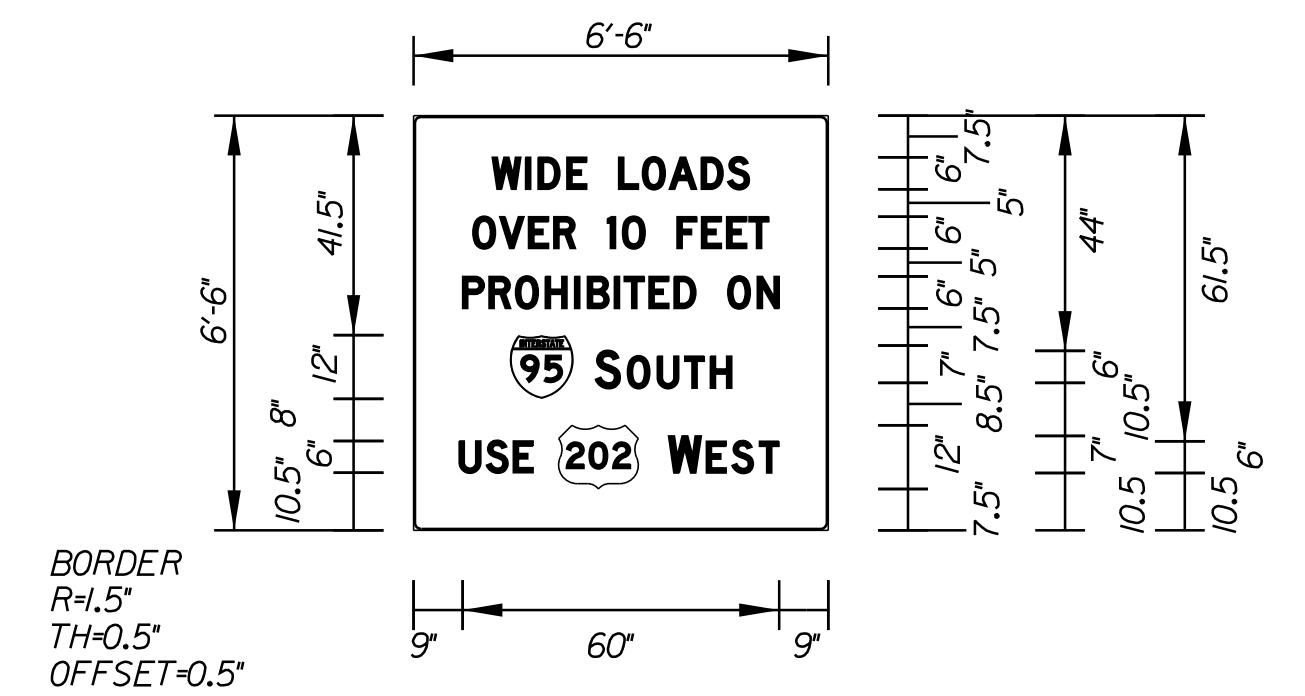
CS-5 GUIDESIGN LAYOUT



CS-2 GUIDESIGN LAYOUT



CS-4 GUIDESIGN LAYOUT



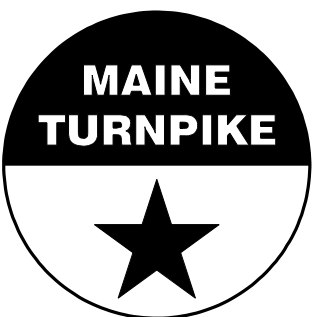
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Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	3/26/24	Checked	MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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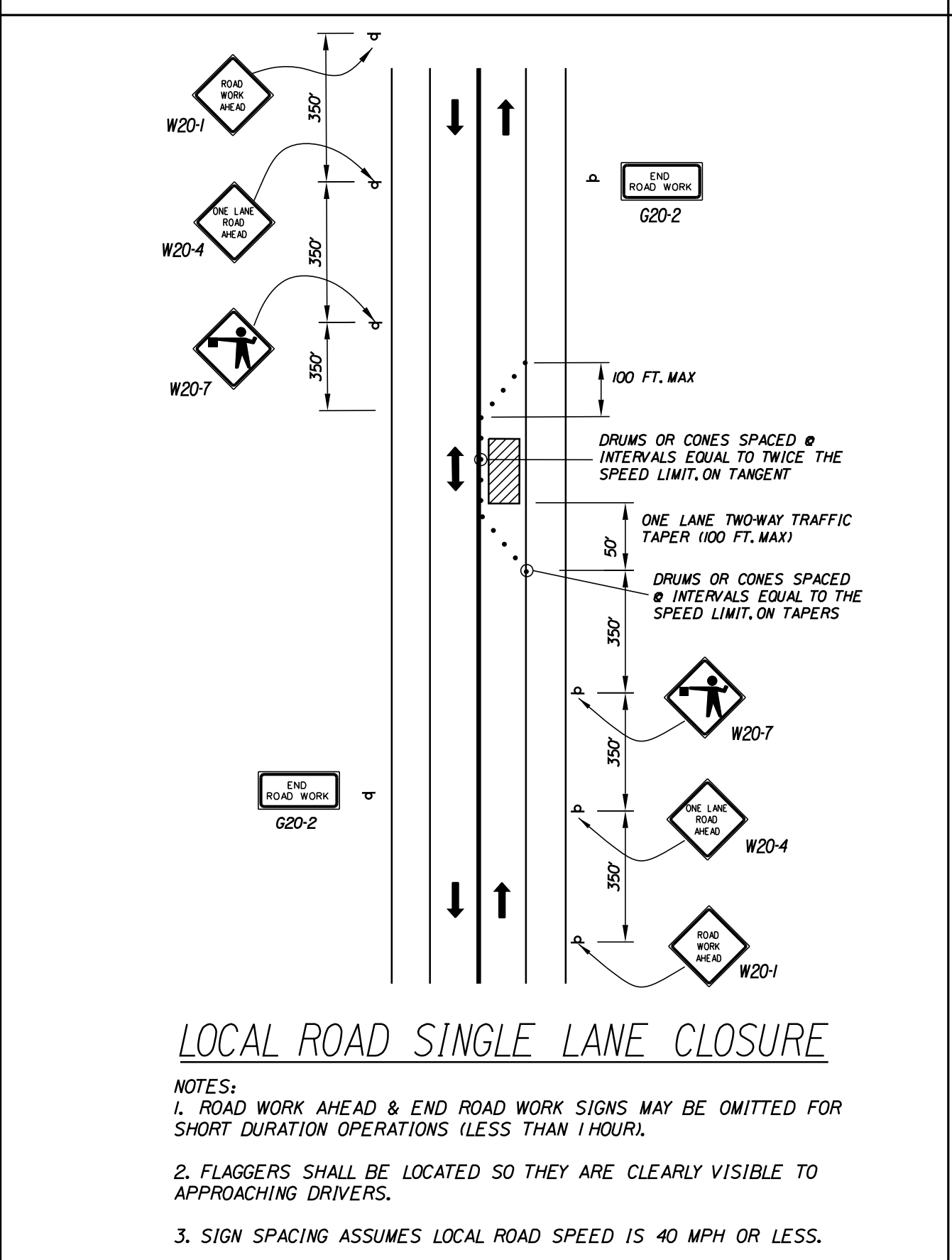
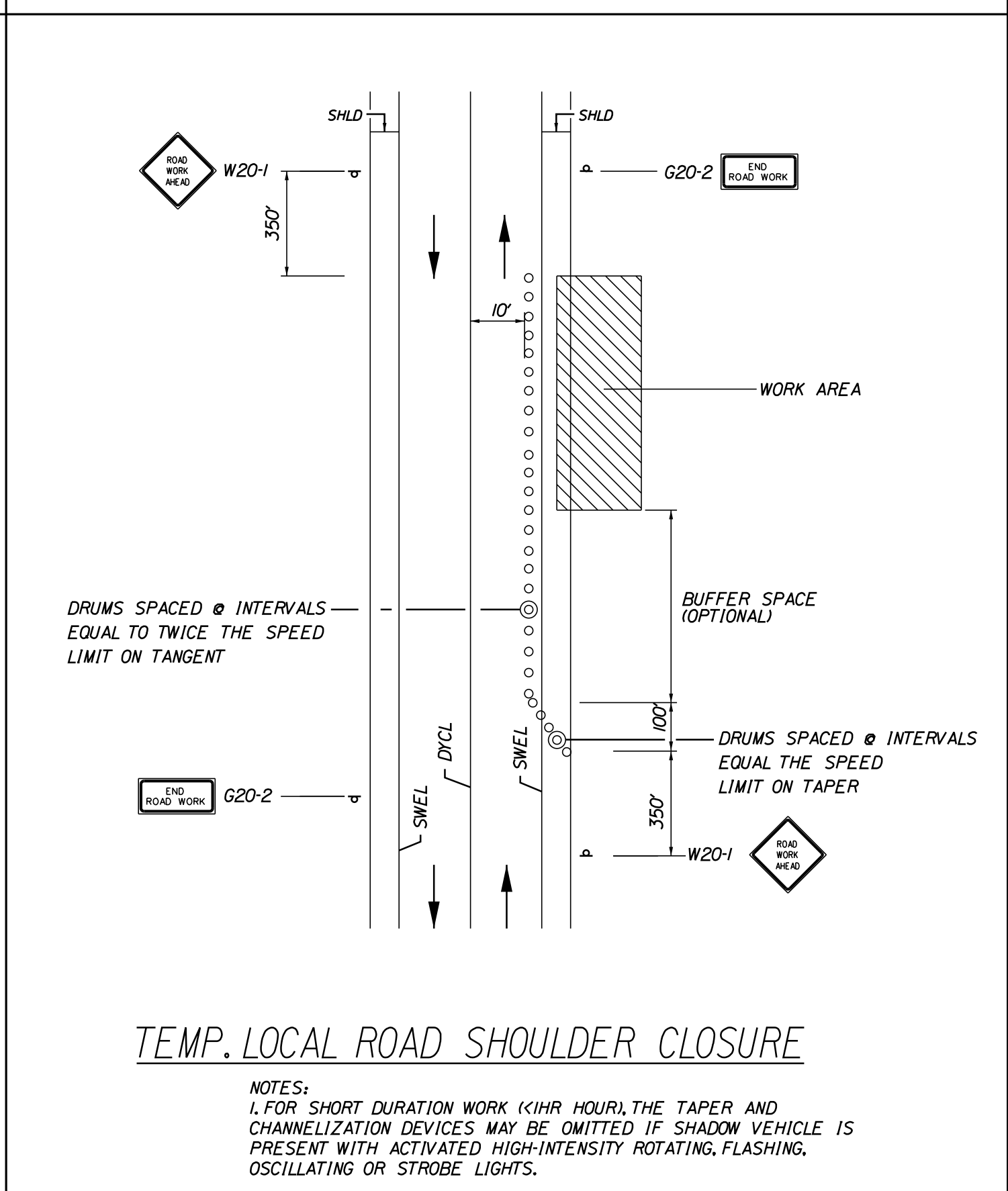
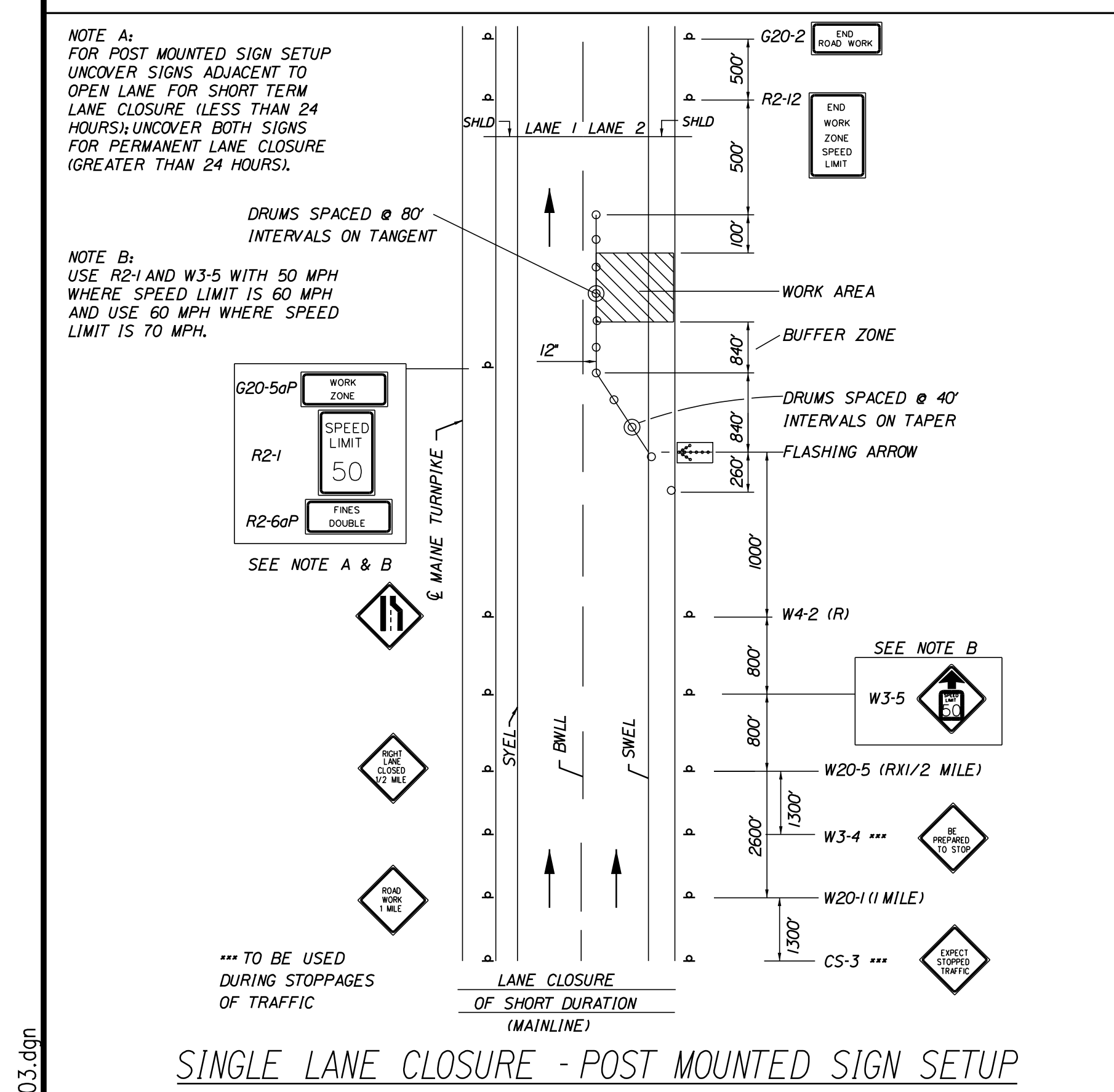
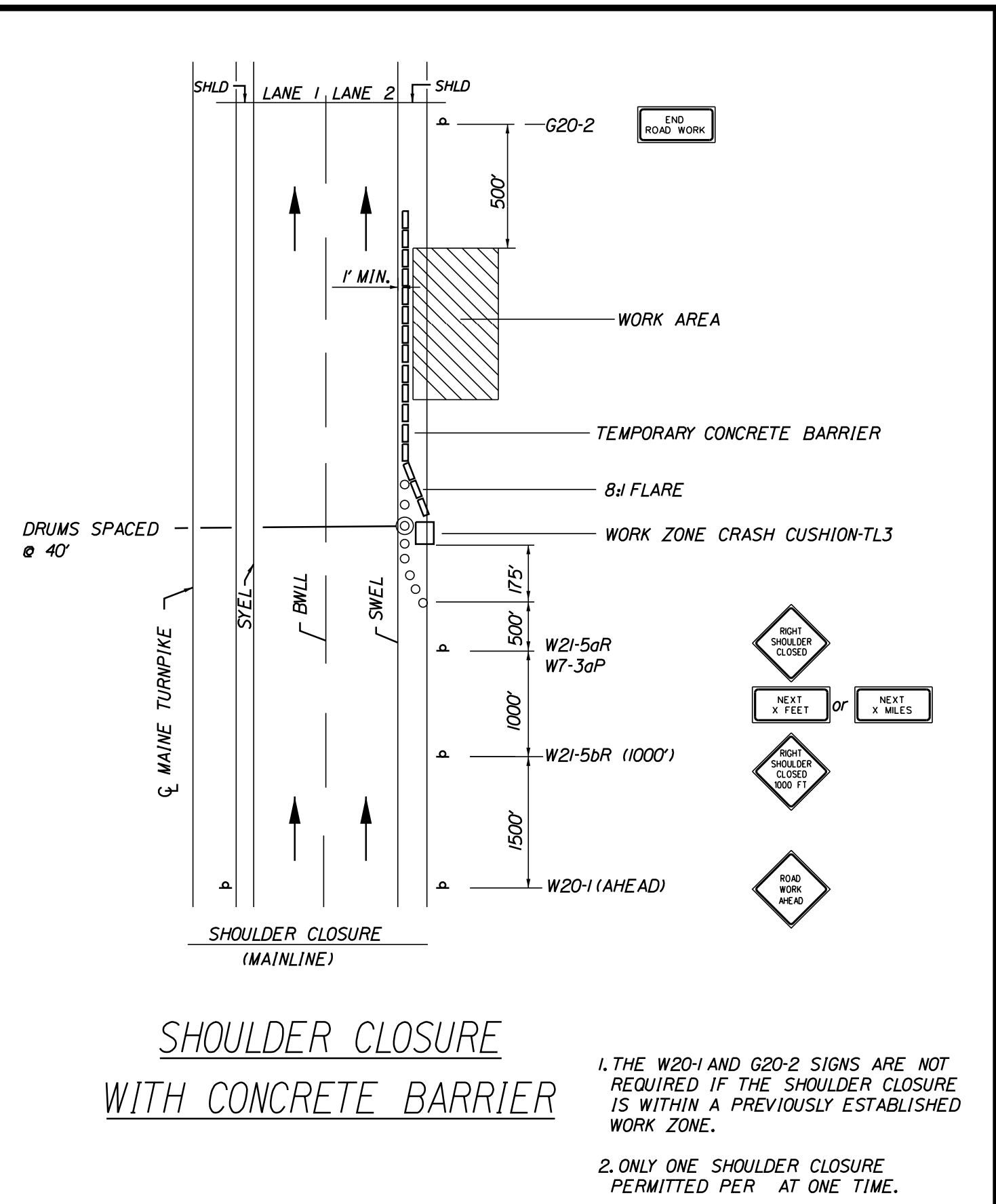
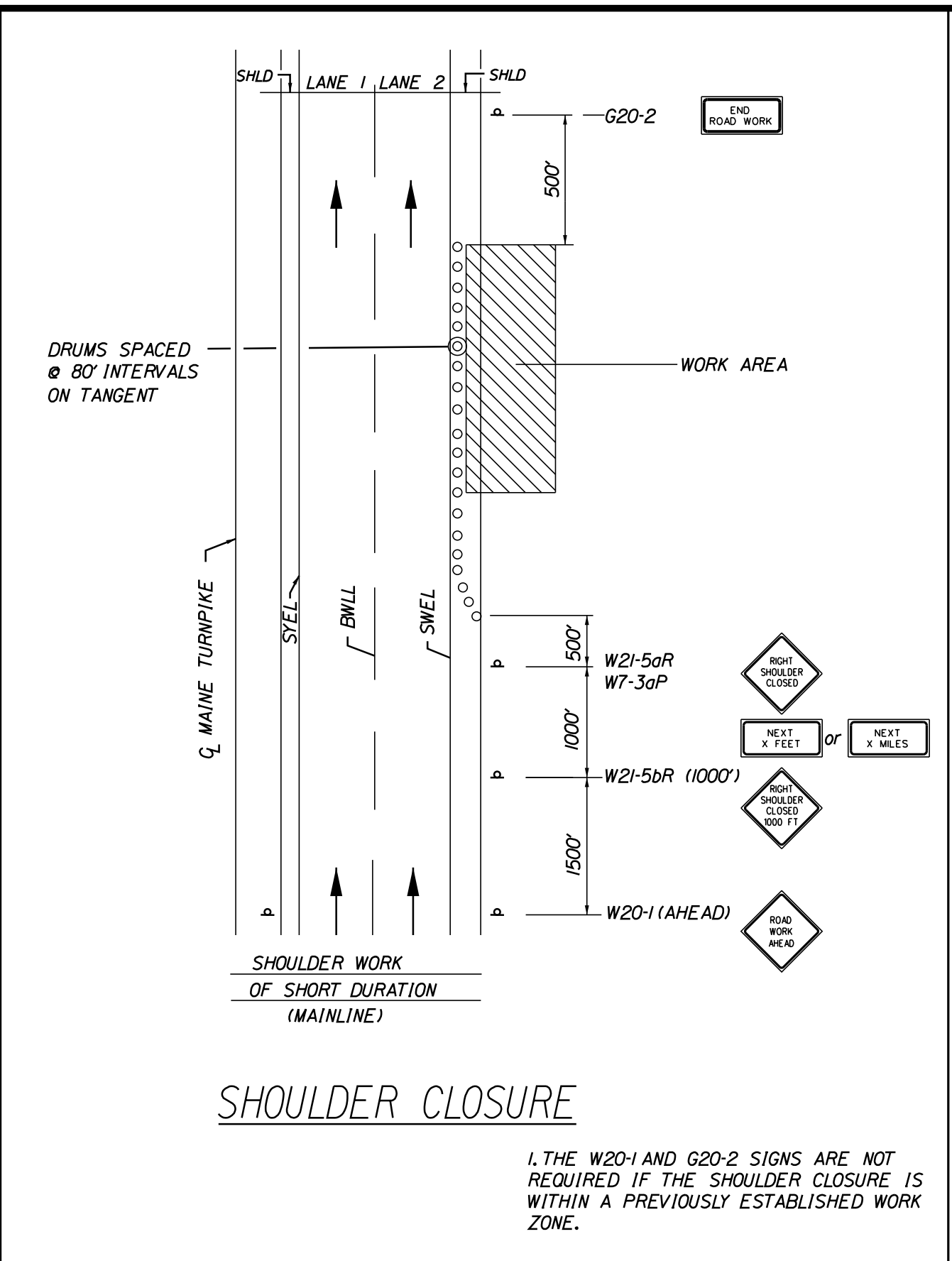
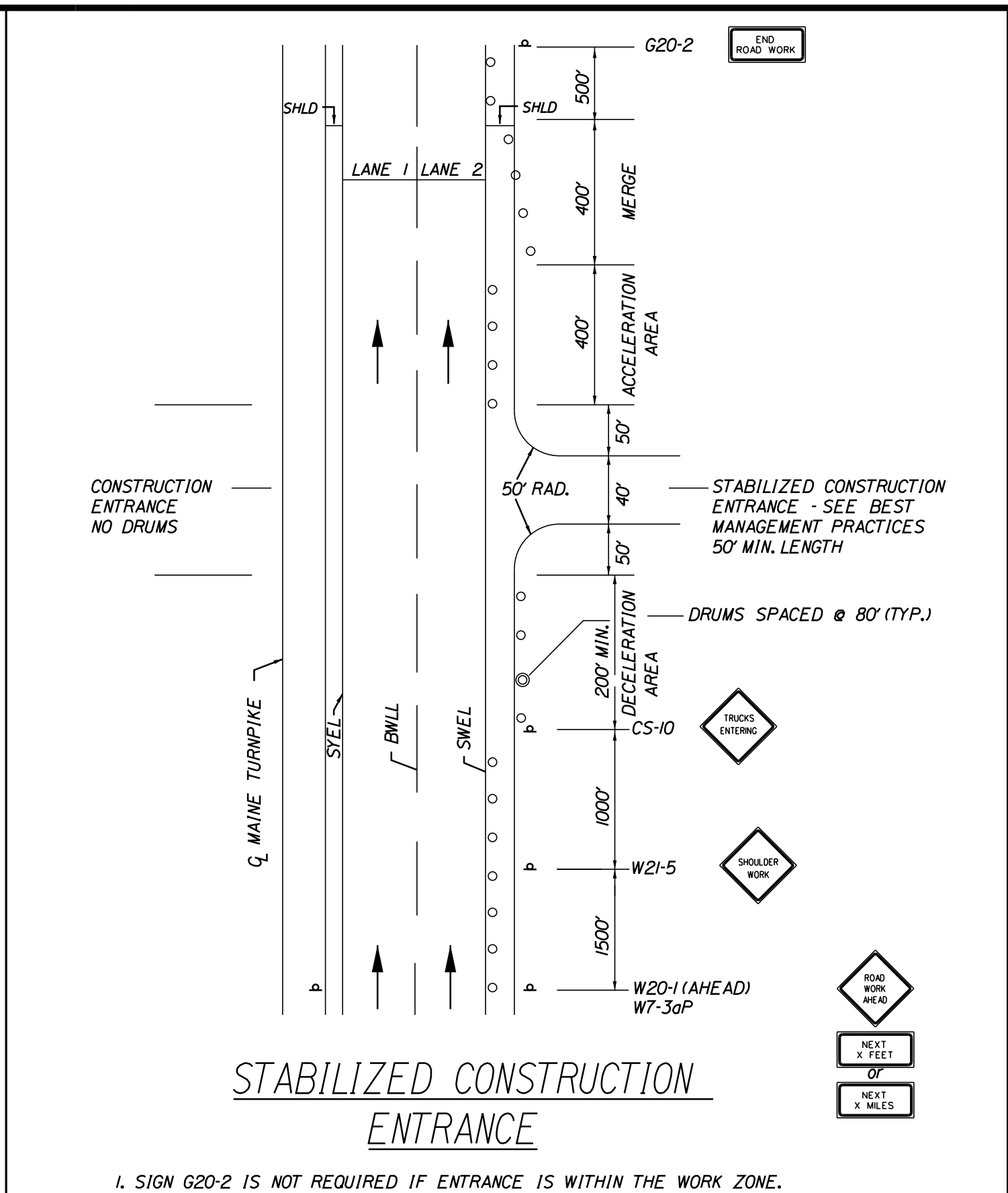
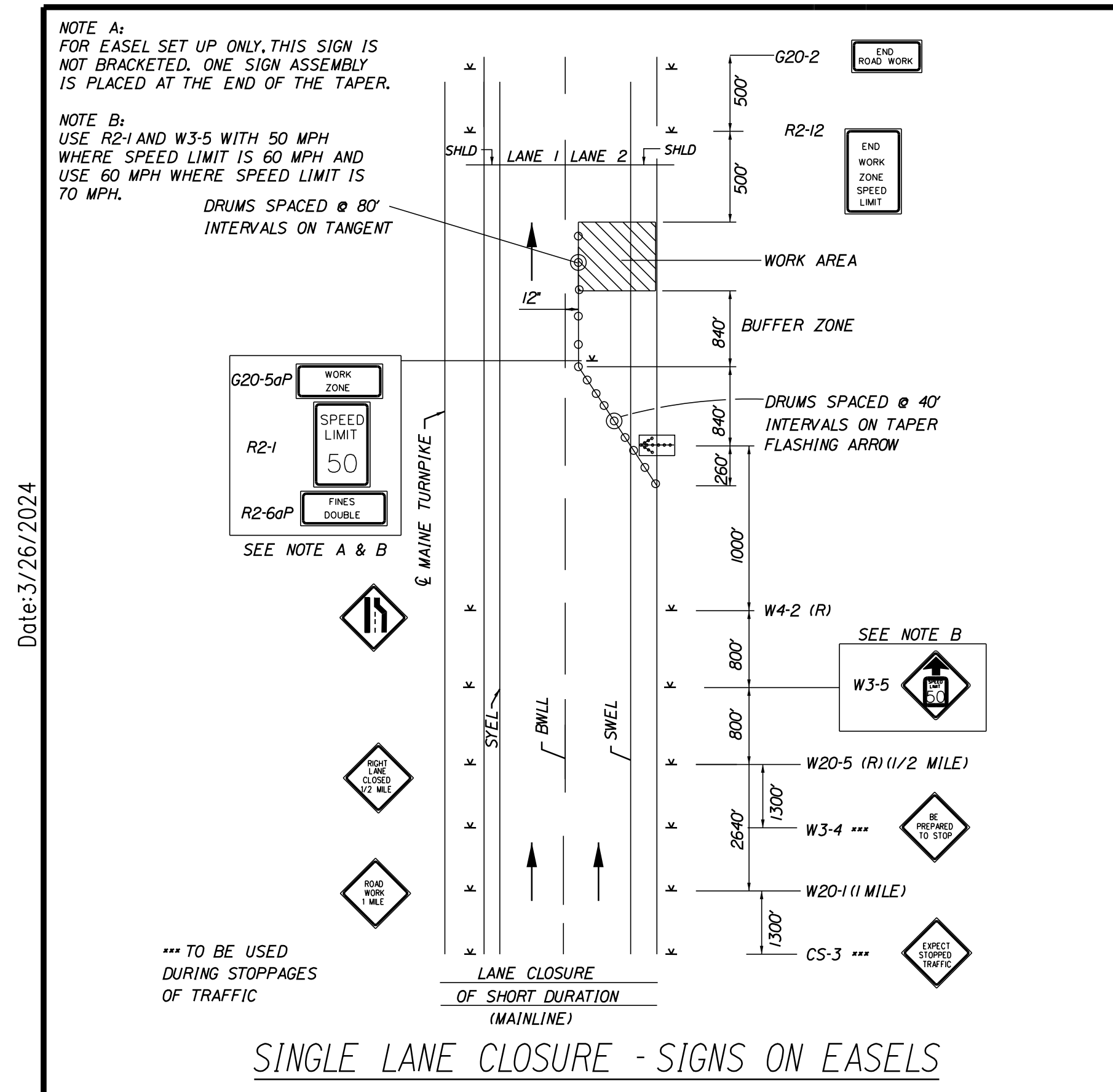
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
BRIDGE REPAIRS
MAINTENANCE OF TRAFFIC DETAILS
(02 OF 03)

VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 6
6 OF 38



WORK ZONE TRAFFIC CONTROL LAYOUT NOTES

- ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', U.S.D.O.T., F.H.W.A., LATEST EDITION.
- THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
- THE CONTRACTOR SHALL REMOVE OR MASK WITH BLACK TAPE (EXCEPT ALONG THE TURNPIKE MAINLINE) ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD.
- EXPOSED BARRIER ENDS ON THE MAINE TURNPIKE SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION.
- SPEED LIMIT, STOP, YIELD AND EXIT SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.
- WORK ZONE SPEED LIMIT ASSEMBLY MAY BE REPLACED WITH AN AUTOMATED WORK ZONE SPEED LIMIT SIGN.

ABBREVIATIONS FOR ALL M.O.T. PLANS

BWLL = BROKEN WHITE LANE LINE
 SWEL = SOLID WHITE LANE LINE
 SYEL = SOLID YELLOW LANE LINE
 TBWLL = TEMPORARY BROKEN WHITE LANE LINE
 TDWEL = TEMPORARY DOTTED WHITE EDGE LINE
 TSWEL = TEMPORARY SOLID WHITE EDGE LINE
 TSWLL = TEMPORARY SOLID WHITE LANE LINE
 TSYCL = TEMPORARY SOLID YELLOW CENTER LINE
 TSYL = TEMPORARY SOLID YELLOW LING (TAPE)
 TSWL = TEMPORARY SOLID WHITE LINE (TAPE)
 DWL = EXISTING DASHED WHITE LANE LINE
 SWL = EXISTING SOLID WHITE LINE
 SYL = EXISTING SOLID YELLOW LINE

TEMPORARY RUMBLE STRIP NOTES

- IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:
 - ADJACENT TO THE WORK ZONE (2 UNITS)
 - UPSTREAM FROM THE TAPER FOR THE WORKZONE (3 UNITS)
 - BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (5 UNITS)
- W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION, ONLY ONE SET OF W8-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
- RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-24a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MLG	3/26/24	Checked	MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
 BRIDGE REPAIRS
 MAINTENANCE OF TRAFFIC DETAILS
 (03 OF 03)

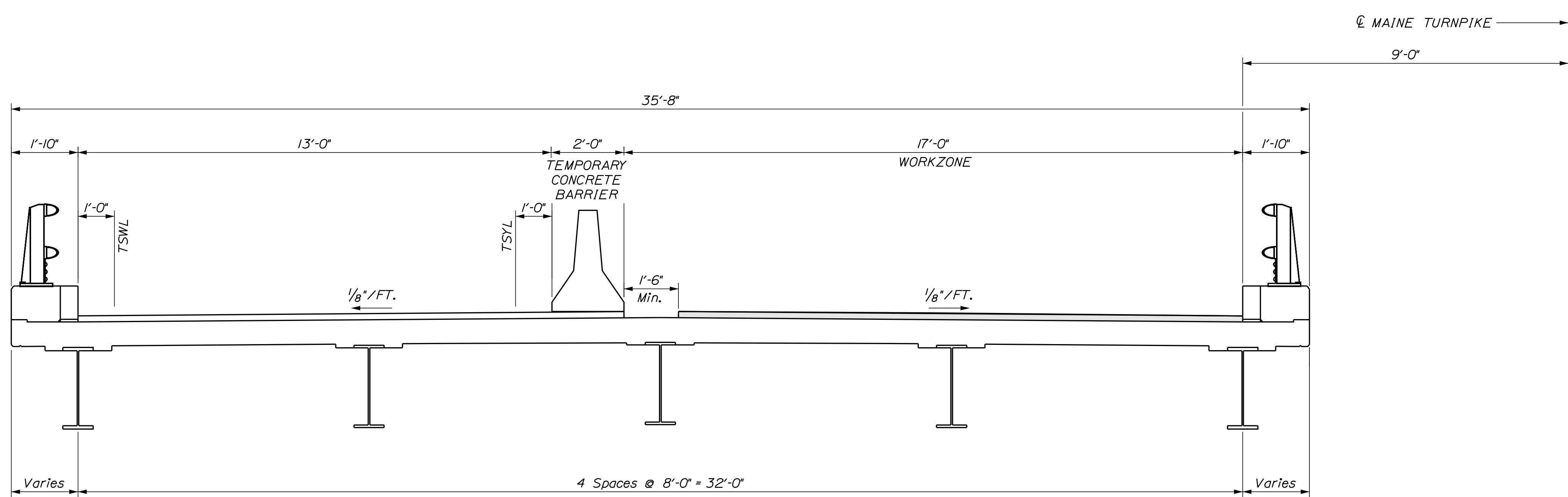
VHB: 55729.00
 CONTRACT: 2024.07

SHEET NUMBER: 7
 OF 38

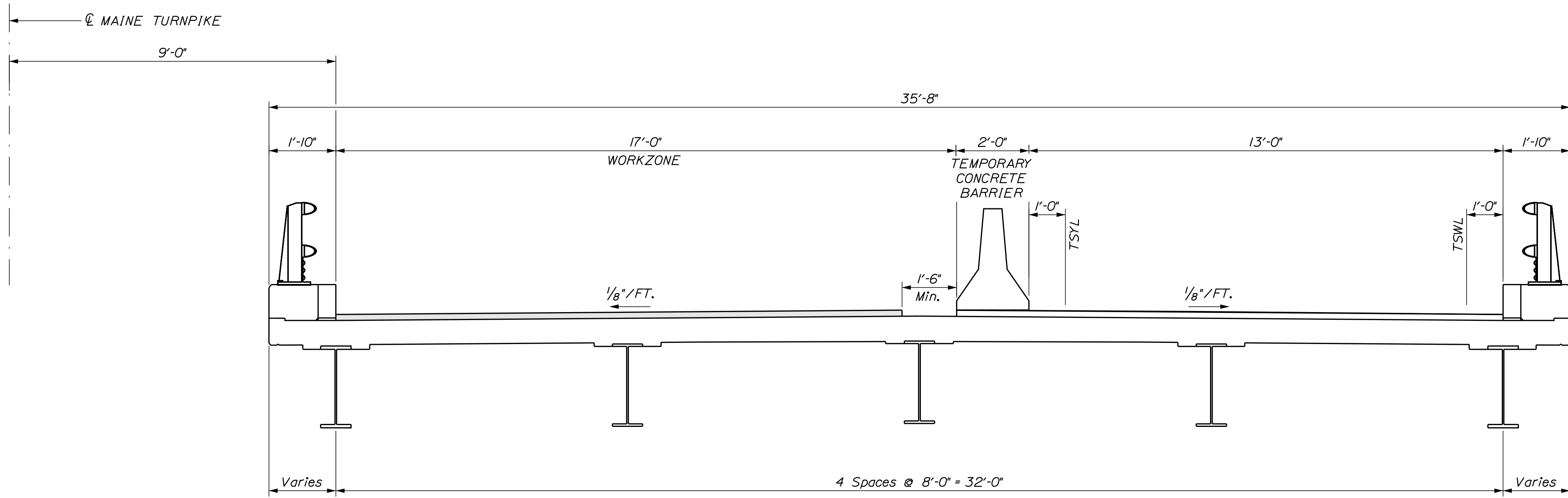
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Date: 3/26/2024

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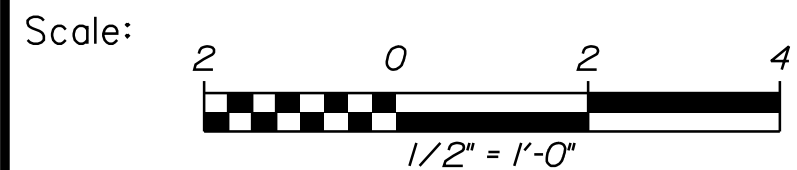
TRAFFIC CONTROL PHASE I BRIDGE CONSTRUCTION - SOUTHBOUND
Scale: 1/2" = 1'-0"



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

TRAFFIC CONTROL NOTE

1. Conduct median lane repairs and keep active traffic on the outside lane.
2. When active traffic lane reduces to 13 feet, install wide load detour route.



No.	Revision	By	Date

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**THE GOLD STAR
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	By	Date		By	Date
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MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

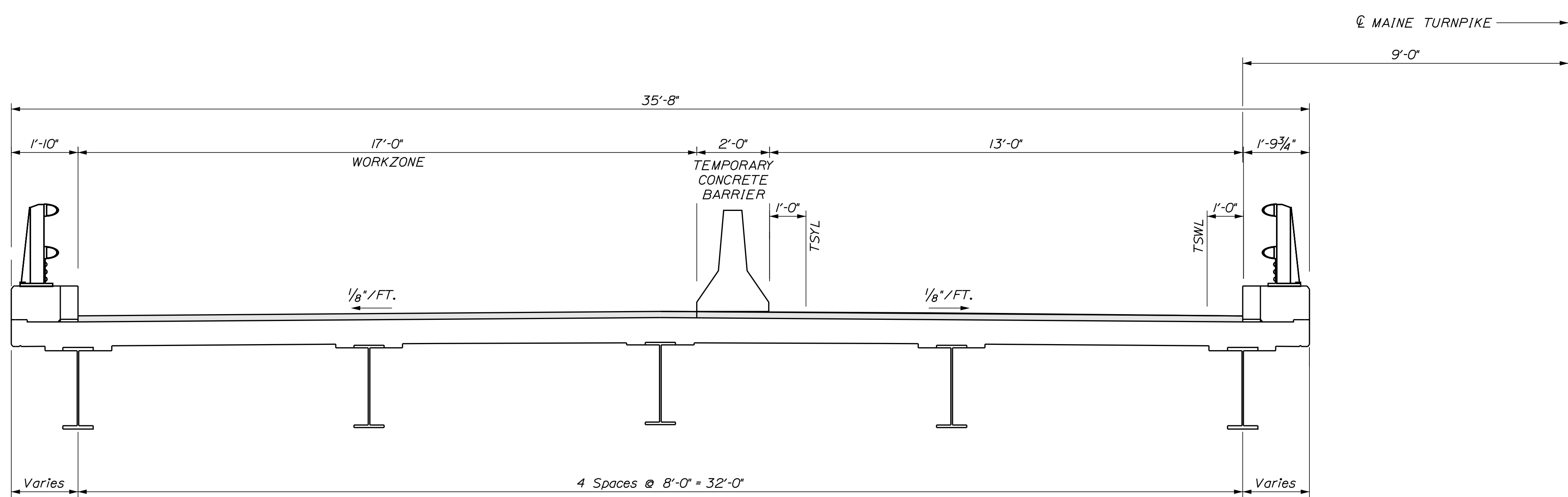
MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS
AT MM 74.50 IN AUBURN
BRIDGE CONSTRUCTION SECTION - PHASE 1

VHB: 55729.00
CONTRACT: 2024.07

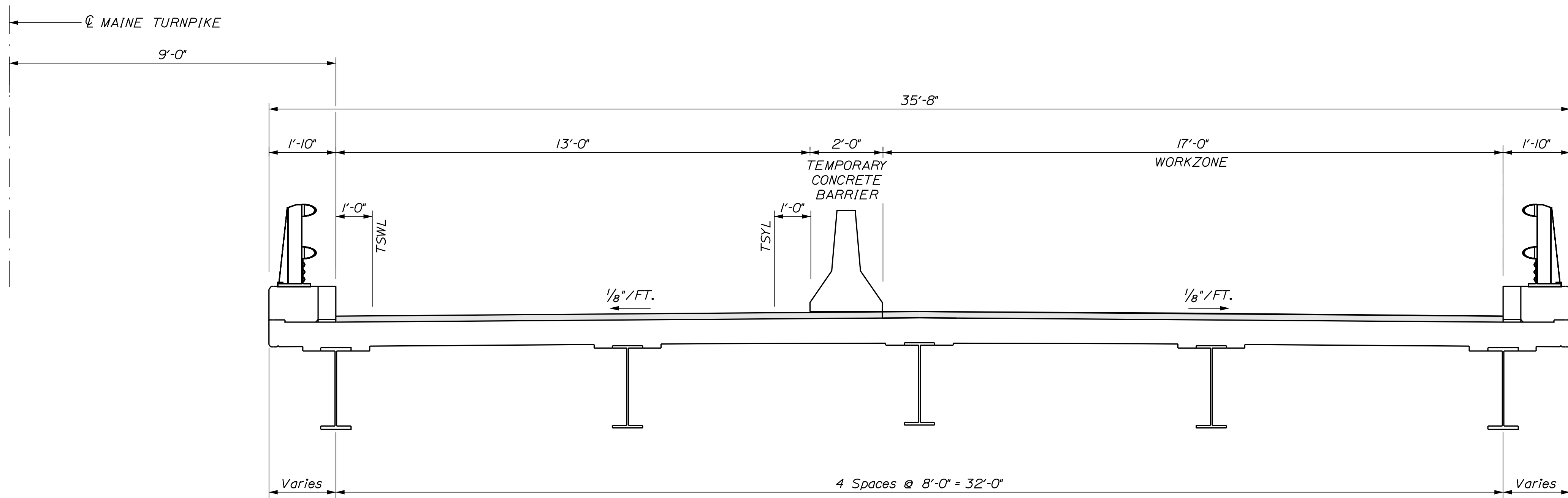
SHEET NUMBER: 8
8 OF 38

Date: 3/26/2024

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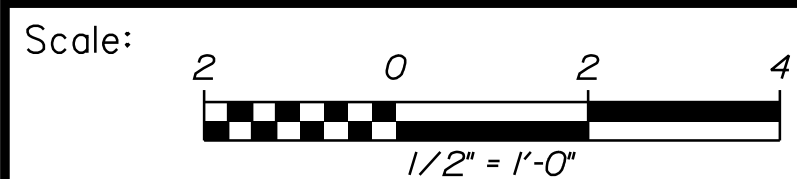
TRAFFIC CONTROL PHASE 2 BRIDGE CONSTRUCTION - SOUTHBOUND
Scale: 1/2" = 1'-0"



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

TRAFFIC CONTROL NOTE

1. Conduct outside lane repairs and keep active traffic on the median lane.
2. When active traffic lane reduces to 13 feet, install wide load detour route.



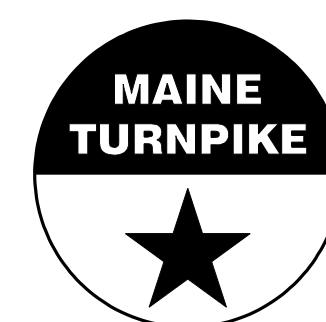
No.	Revision	By	Date

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	By	Date		By	Date
Designed	MLG	3/26/24	Checked	MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24



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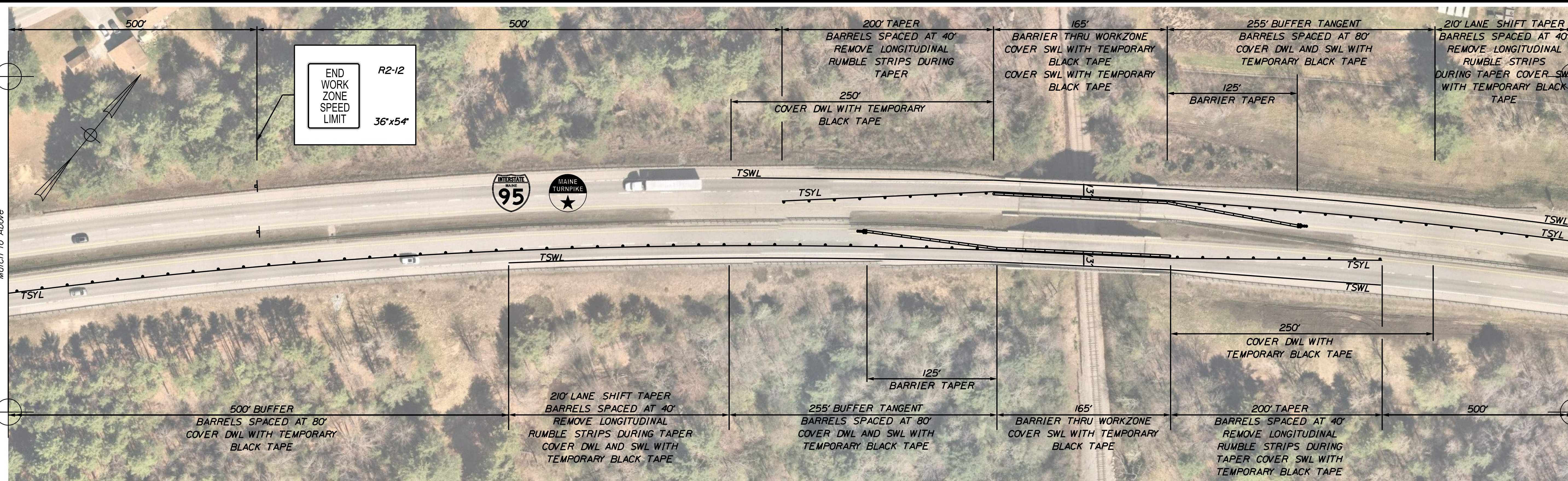
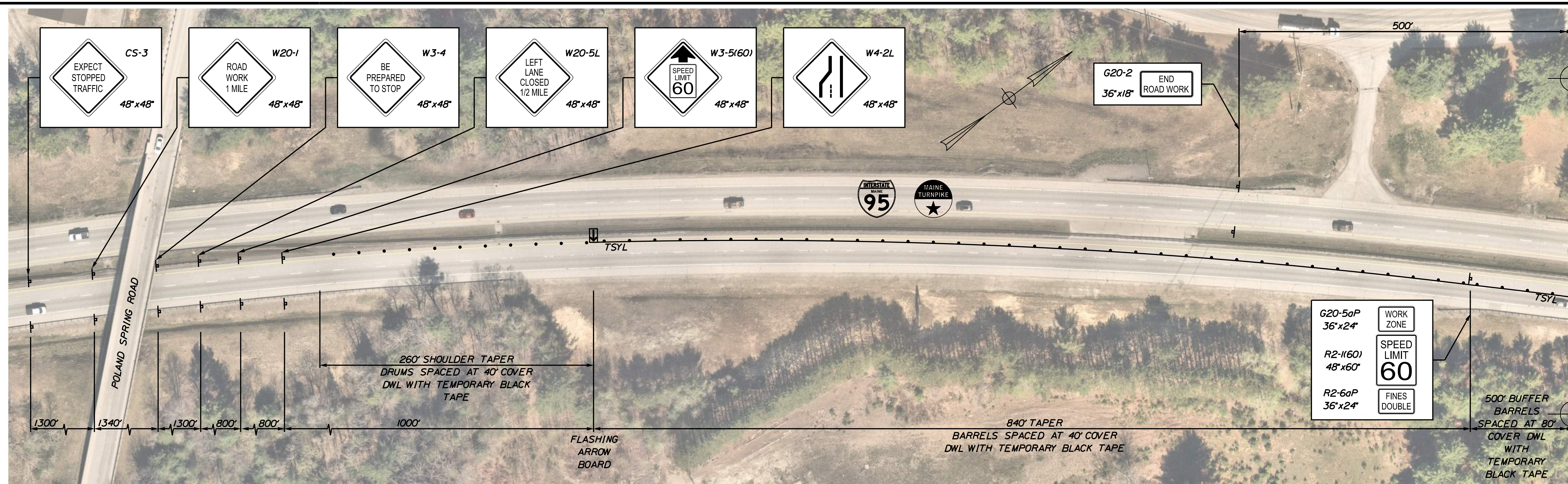
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS
AT MM 74.50 IN AUBURN
BRIDGE CONSTRUCTION SECTION - PHASE 2

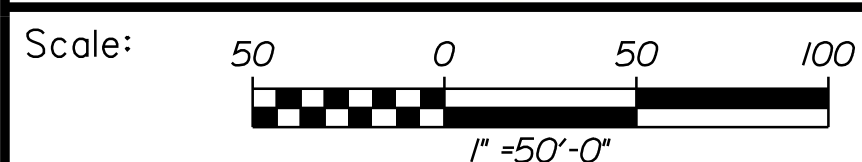
VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 9
9 OF 38

Date: 3/26/2024



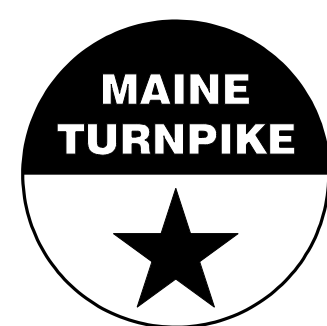
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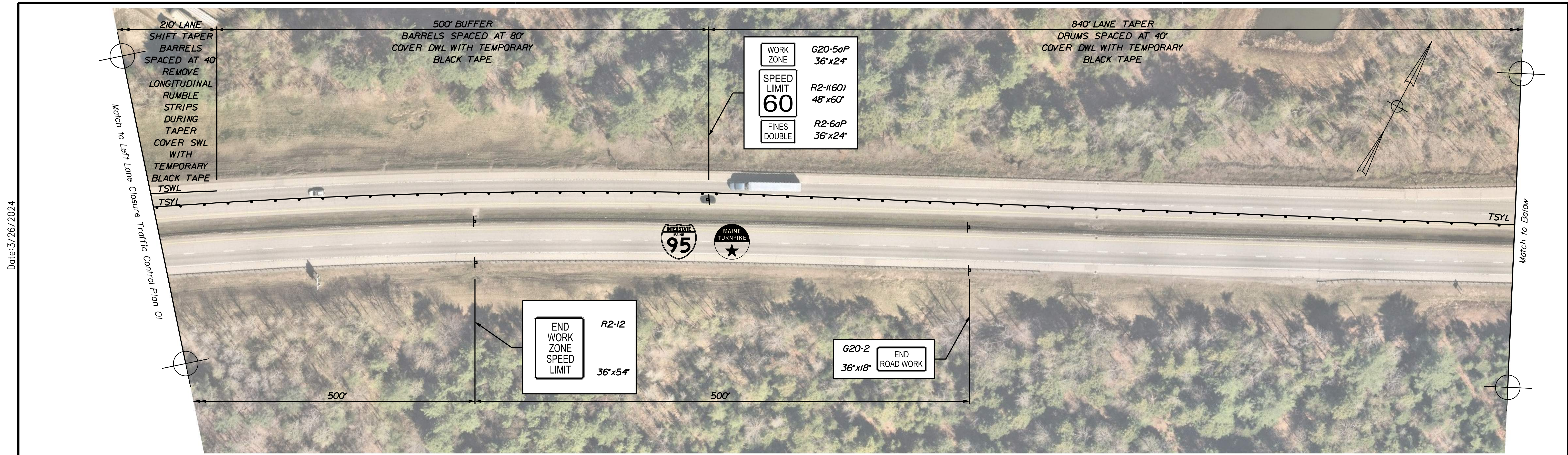
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2024.07
 ST. LAWRENCE AND ATLANTIC RR
 OVERPASS AT MM 74.50 IN AUBURN
 LEFT LANE CLOSURE
 TRAFFIC CONTROL PLAN 01

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	3/26/24	Checked	MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

VHB: 55729.00 SHEET NUMBER: 10
 CONTRACT: 2024.07 10 OF 38



Scale: 1" = 50'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	3/26/24		MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS AT MM 74.50 IN AUBURN
LEFT LANE CLOSURE
TRAFFIC CONTROL PLAN 02

VHB: 55729.00
CONTRACT: 2024.07

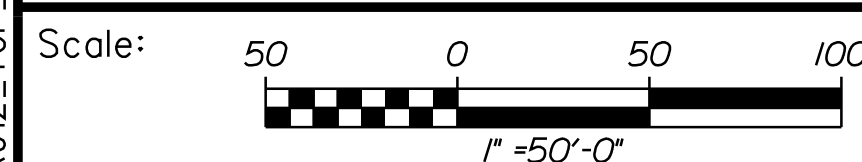
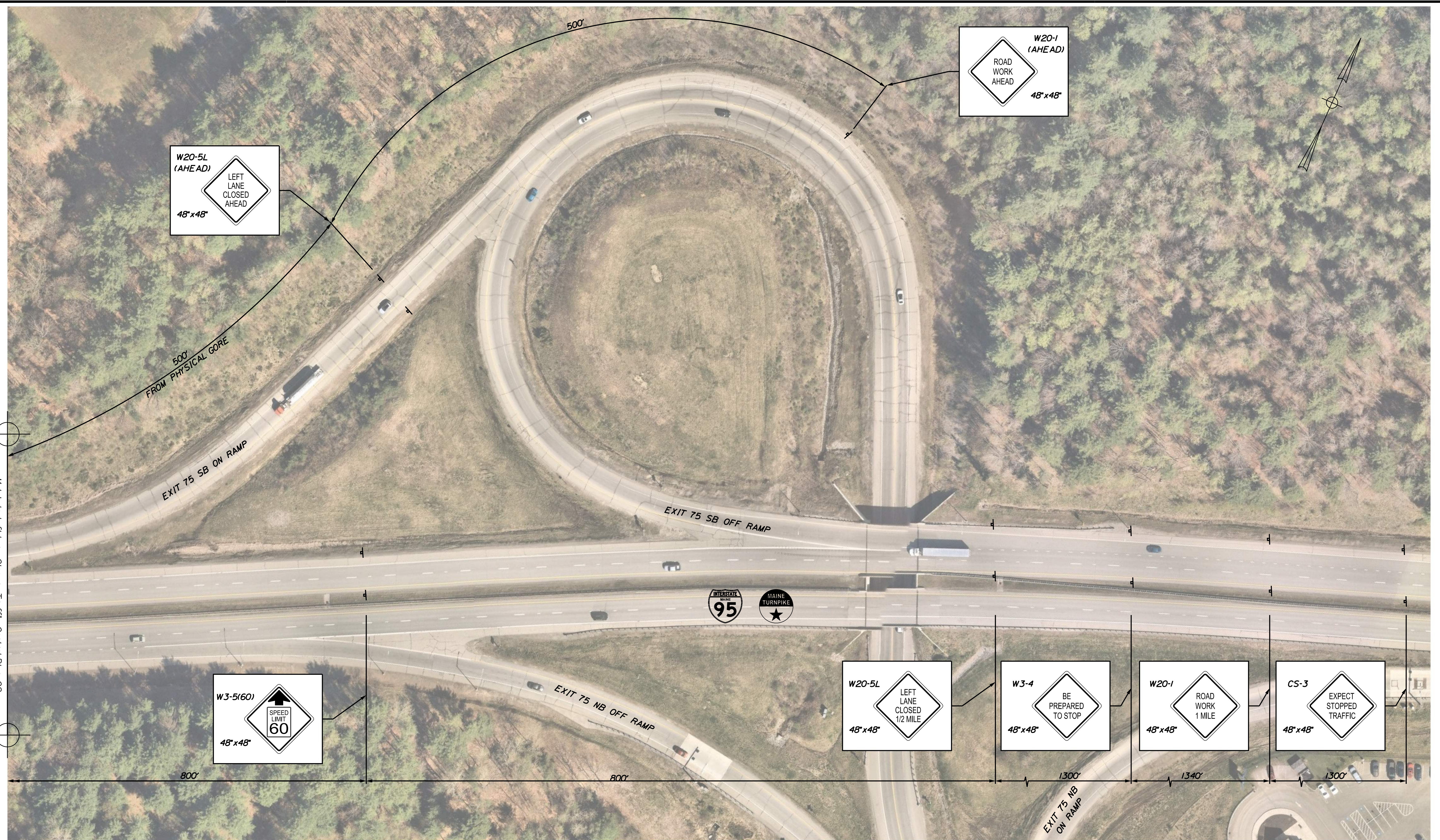
SHEET NUMBER: 11
11 OF 38

Date: 3/26/2024

Filename: ...MSTA011_TCP_02.dgn

Date: 3/26/2024

Match to Left Lane Closure Traffic Control Plan 02



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	3/26/24	In Charge of	MDS	3/26/24
Drawn	JAR	3/26/24		GME	3/26/24

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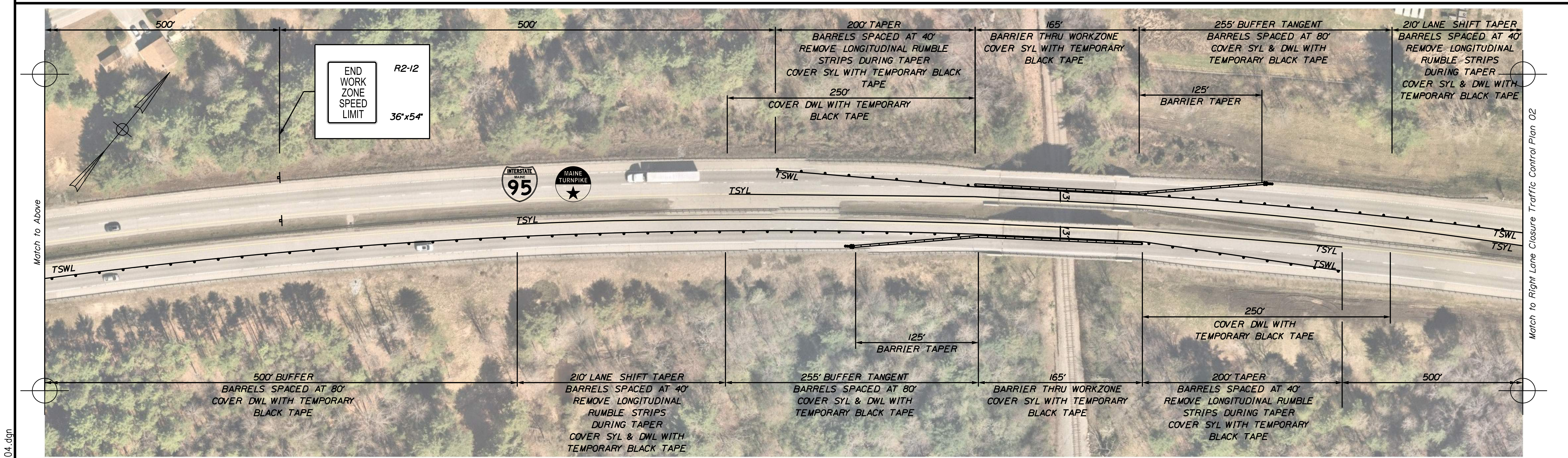
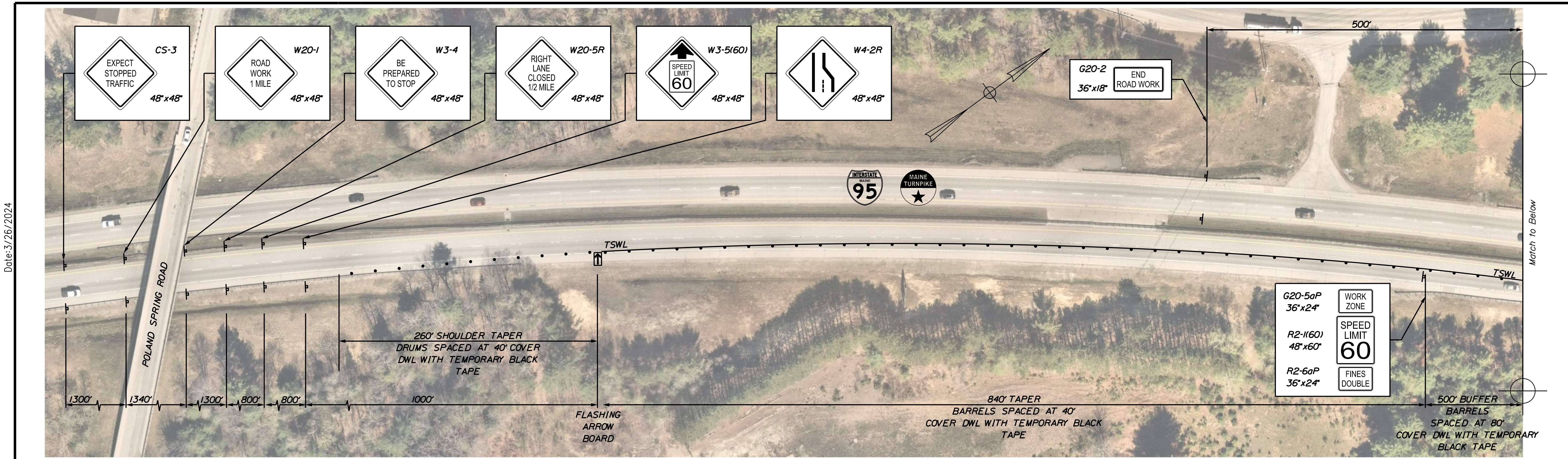
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
 ST. LAWRENCE AND ATLANTIC RR
 OVERPASS AT MM 74.50 IN AUBURN
 LEFT LANE CLOSURE
 TRAFFIC CONTROL PLAN 03

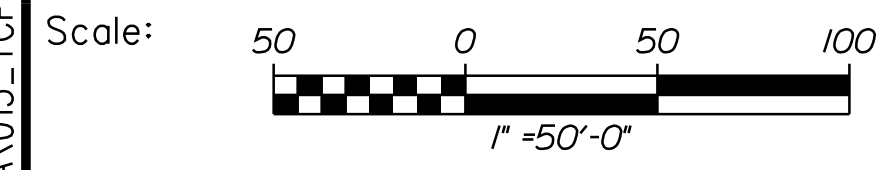
VHB: 55729.00
 CONTRACT: 2024.07

SHEET NUMBER: 12
 12 OF 38

Date: 3/26/2024



Filename: ...MSTAV013_TCP_04.dgn



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2024.07
 ST. LAWRENCE AND ATLANTIC RR
 OVERPASS AT MM 74.50 IN AUBURN
 RIGHT LANE CLOSURE
 TRAFFIC CONTROL PLAN 01

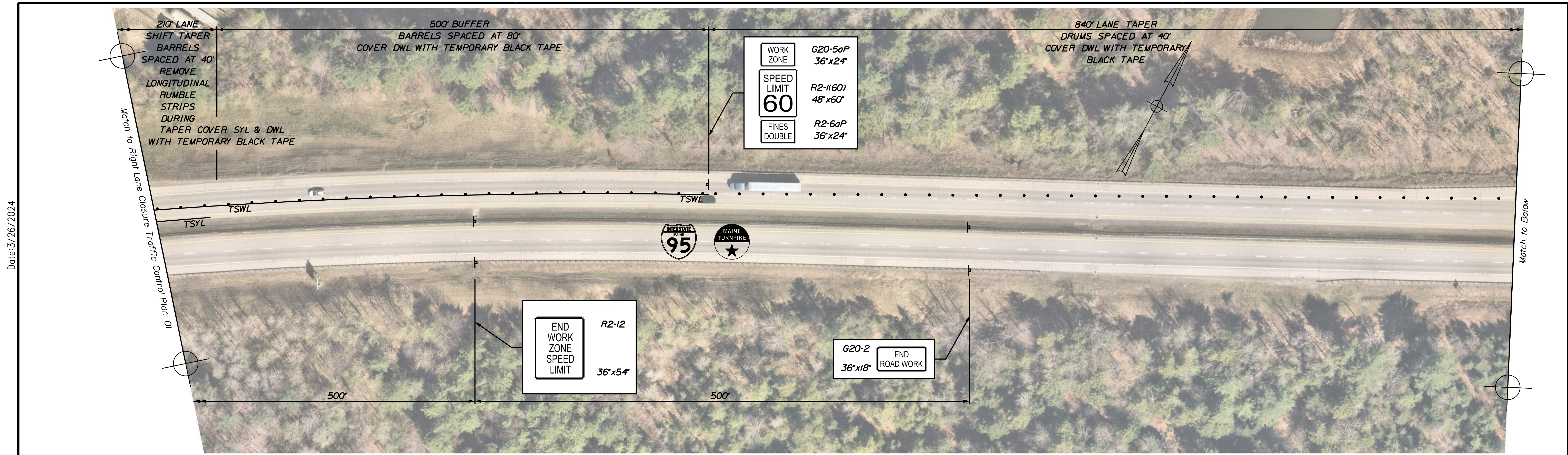
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	3/26/24	Checked	MDS	3/26/24
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MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

VHB: 55729.00
 CONTRACT: 2024.07

SHEET NUMBER: 13
 13 OF 38



Scale: 50 0 50 100
1" = 50'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	3/26/24		MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS AT MM 74.50 IN AUBURN
RIGHT LANE CLOSURE
TRAFFIC CONTROL PLAN 02

VHB: 55729.00
CONTRACT: 2024.07

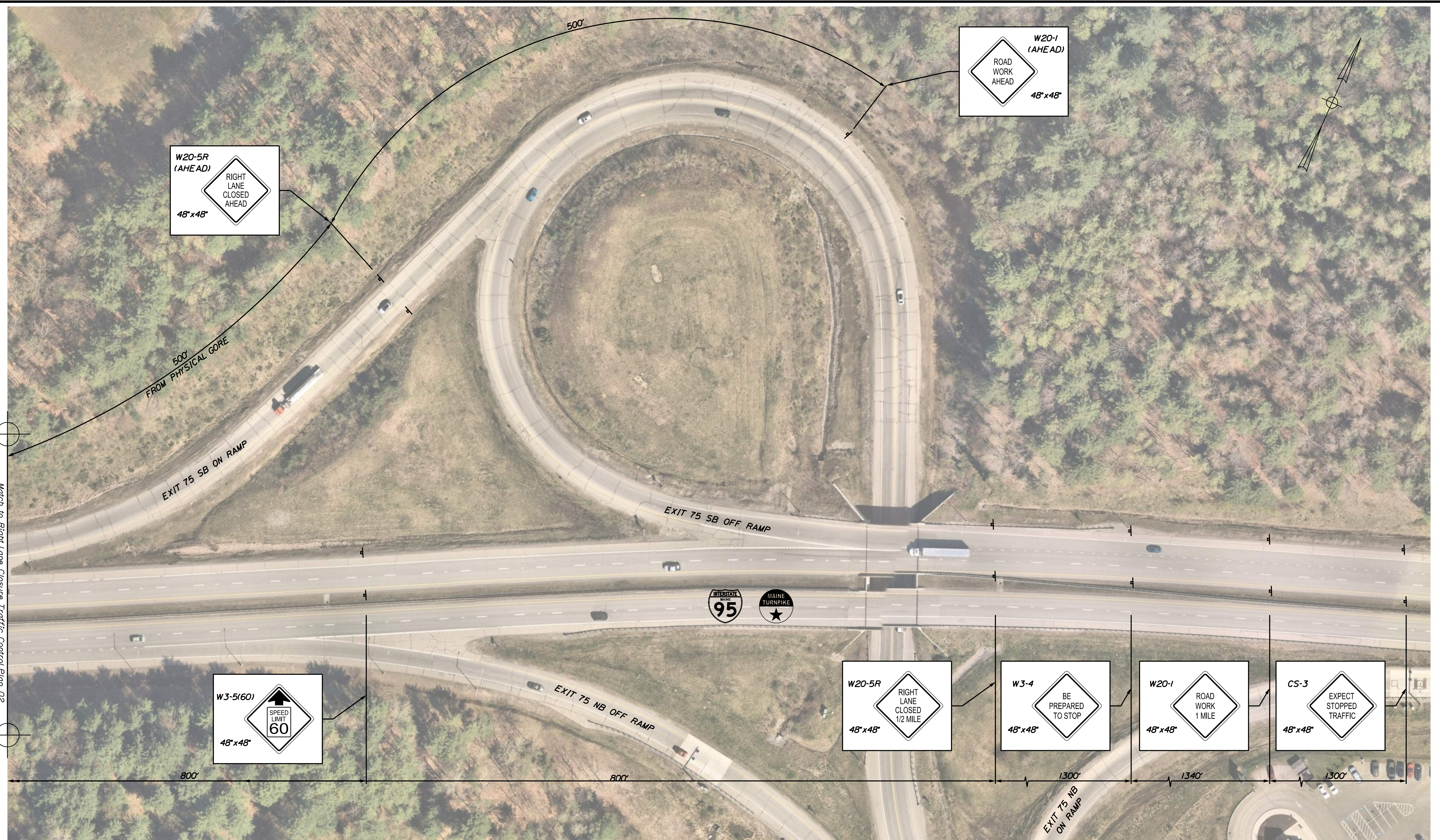
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14 OF 38

Date: 3/26/2024

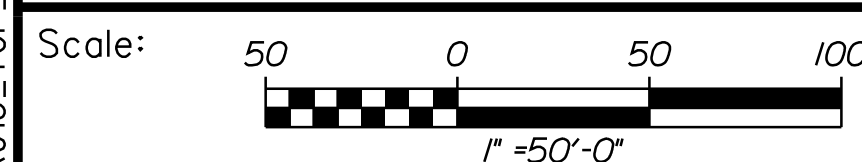
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Date: 3/26/2024

Match to Right Lane Closure Traffic Control Plan 02



Filename: ...MSTA015_TCP_06.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	3/26/24	In Charge of	MDS	3/26/24
Drawn	JAR	3/26/24		GME	3/26/24

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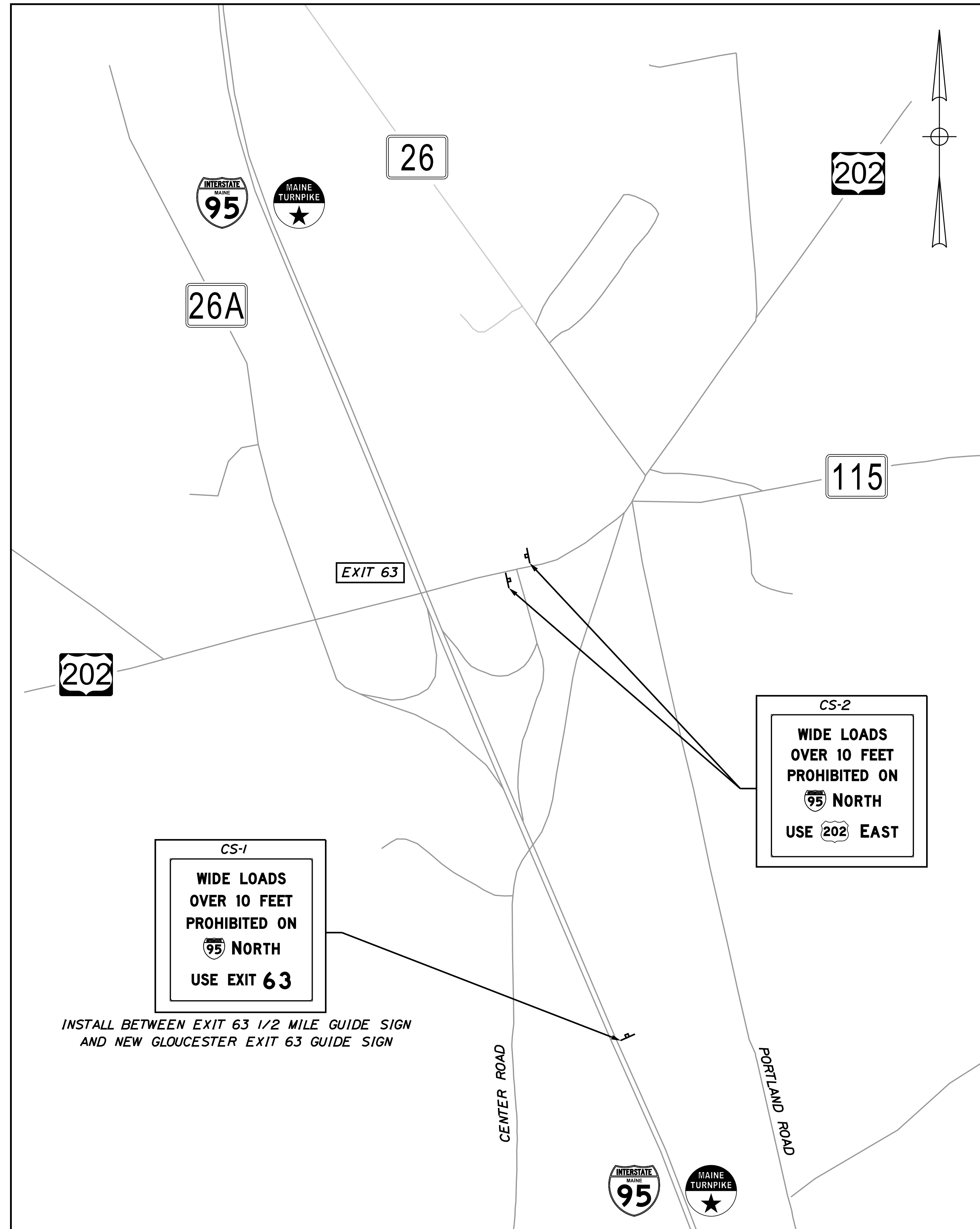
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
 ST. LAWRENCE AND ATLANTIC RR
 OVERPASS AT MM 74.50 IN AUBURN
 RIGHT LANE CLOSURE
 TRAFFIC CONTROL PLAN 03

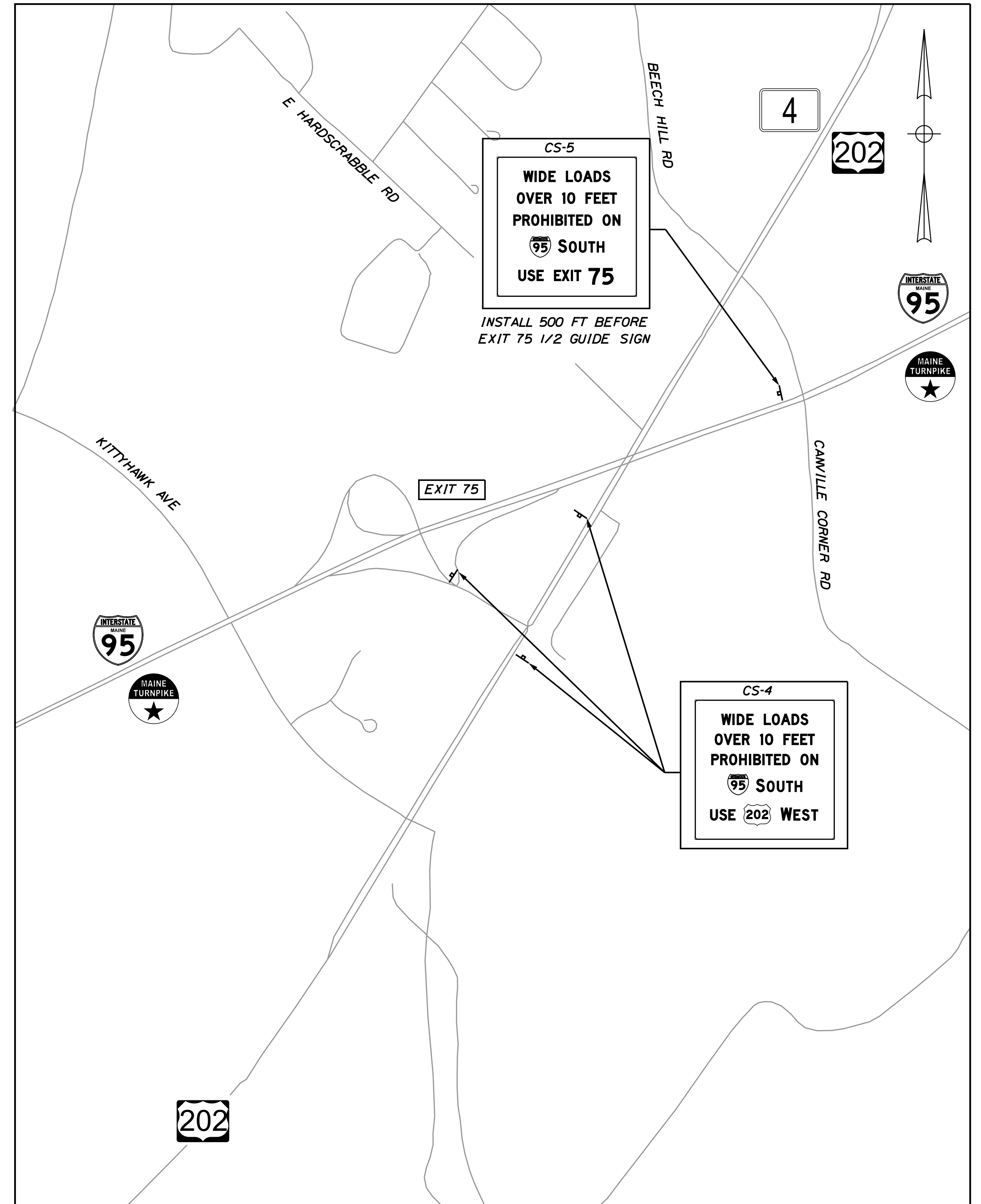
VHB: 55729.00
 CONTRACT: 2024.07

SHEET NUMBER: 15
 15 OF 38

EXIT 63 INTERCHANGE



EXIT 75 INTERCHANGE



Date: 3/26/2024

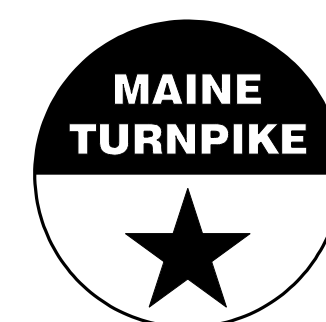
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THE GOLD STAR
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MTA PROJECT NO. 2024.07
 ST. LAWRENCE AND ATLANTIC RR
 OVERPASS AT MM 74.50 IN AUBURN
 WIDE LOAD DETOUR
 TRAFFIC CONTROL PLAN 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MLG	3/26/24	Checked MDS 3/26/24
Drawn	JAR	3/26/24	In Charge of GME 3/26/24

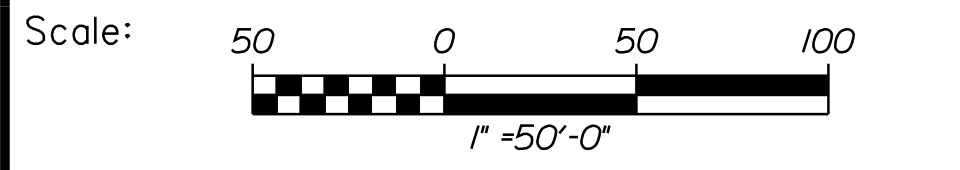
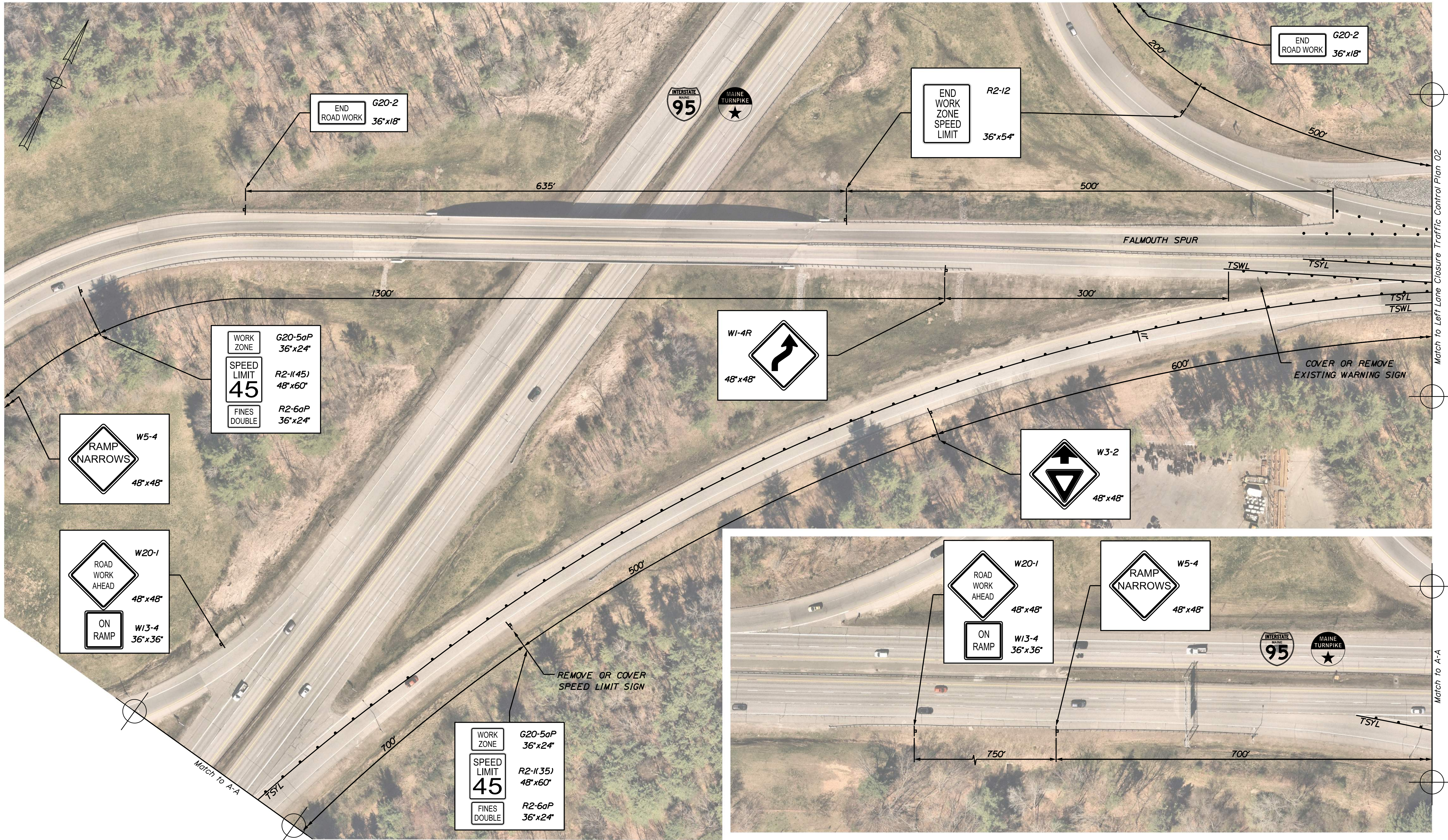
VHB: 55729.00
 CONTRACT: 2024.07

SHEET NUMBER: 16
 16 OF 38

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

Date: 3/26/2024

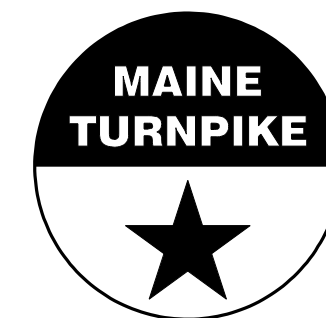
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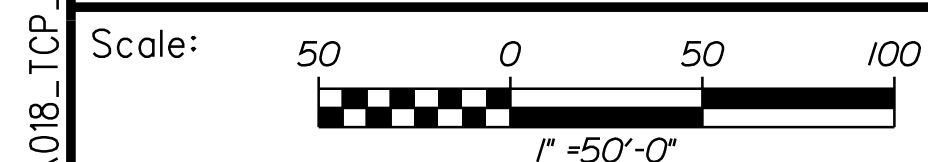
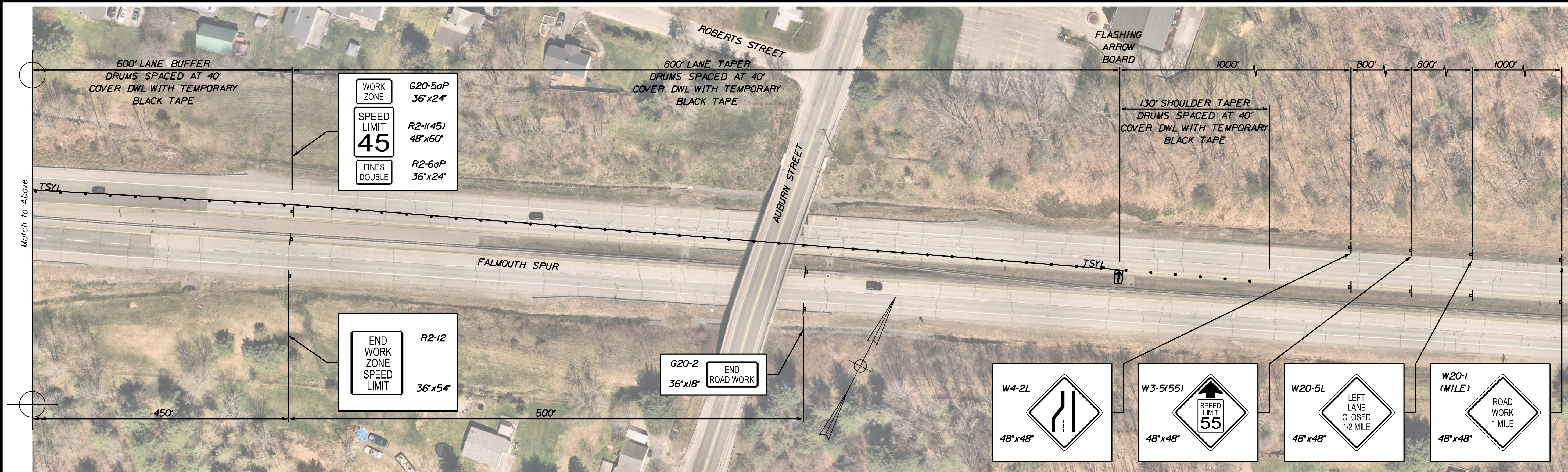
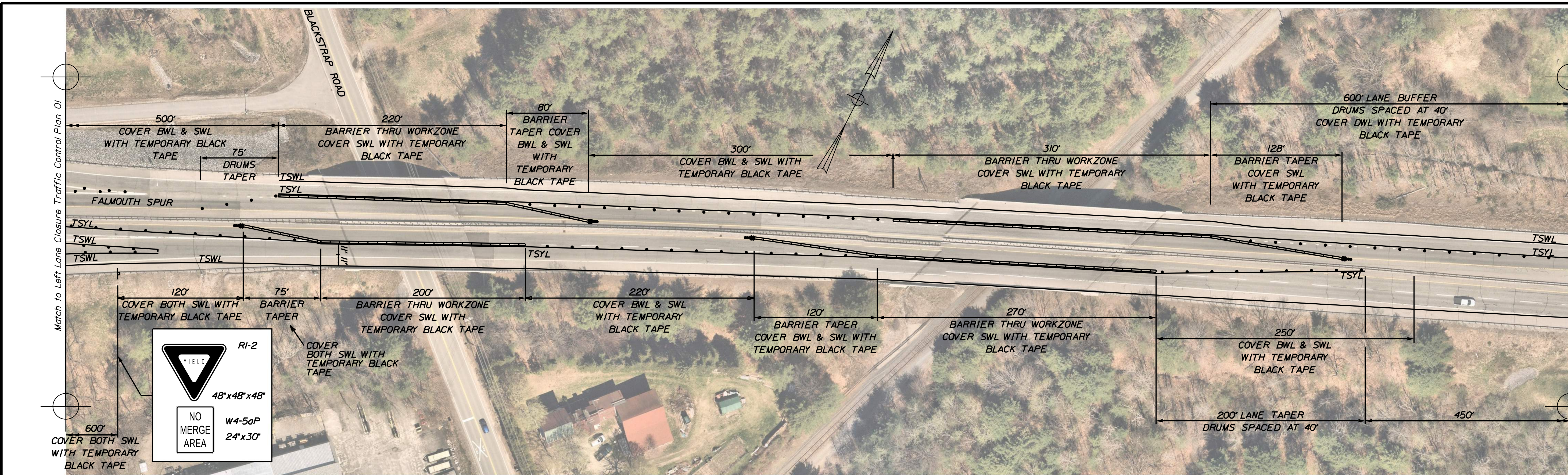
MTA PROJECT NO. 2024.07
 BLACKSTRAP ROAD OVERPASS/FALMOUTH
 SPUR AT MM FS0.40 IN FALMOUTH, ME
 LEFT LANE CLOSURE
 TRAFFIC CONTROL PLAN 01

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MLG	3/26/24	Checked MDS 3/26/24
Drawn	JAR	3/26/24	In Charge of GME 3/26/24

VHB: 55729.00
 CONTRACT: 2024.07
 SHEET NUMBER: 17
 17 OF 38

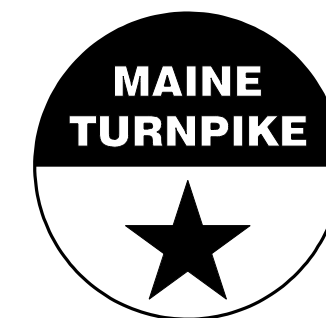
Date: 3/26/2024



Designed by:



VANASSE HANGEN BRUSTLIN, INC.
 500 Southborough Dr.
 Suite 105B
 South Portland, ME 04106
 TEL (207) 889-3150
 FAX (207) 253-5596



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2024.07
 BLACKSTRAP ROAD OVERPASS/FALMOUTH
 SPUR AT MM FS0.40 IN FALMOUTH, ME
 LEFT LANE CLOSURE
 TRAFFIC CONTROL PLAN 02

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MLG	3/26/24	Checked MDS 3/26/24
Drawn	JAR	3/26/24	In Charge of GME 3/26/24

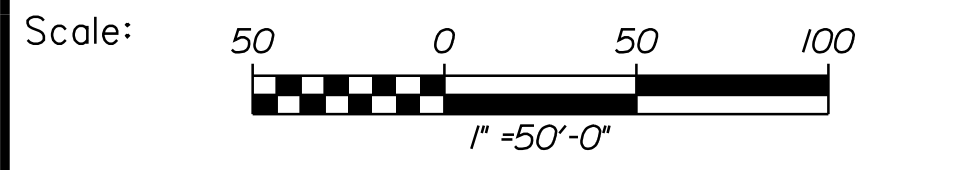
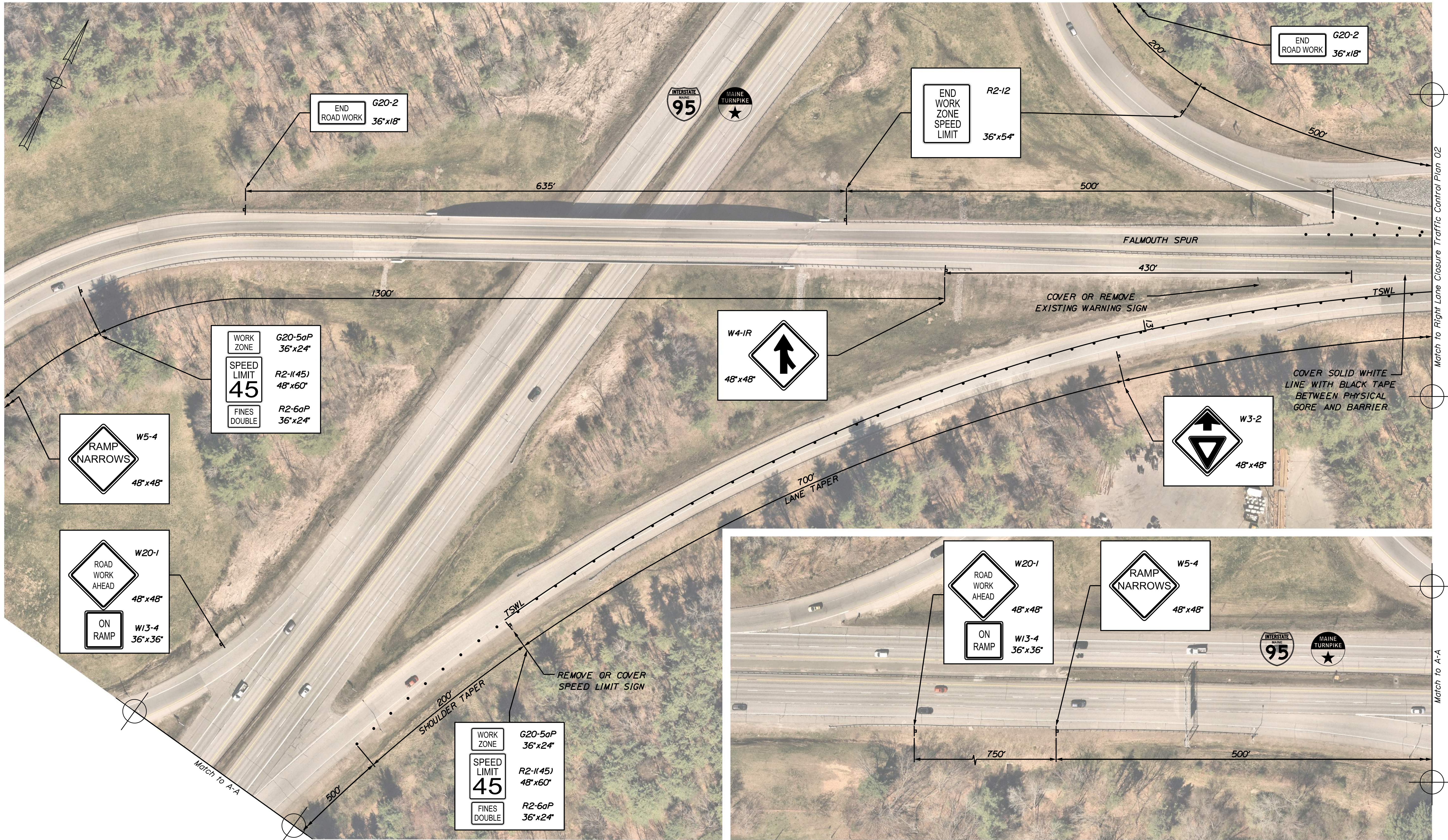
MTA PROJECT MANAGER: Ryan Barnes PE, CPESC

VHB: 55729.00 SHEET NUMBER: 18
 CONTRACT: 2024.07 18 OF 38

Filename: ...MSTA018_TCP_09.dgn

Date: 3/26/2024

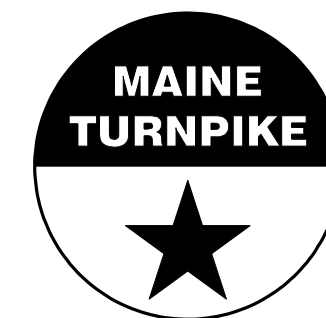
Filename: ...MSTA019_TCP_10.dgn



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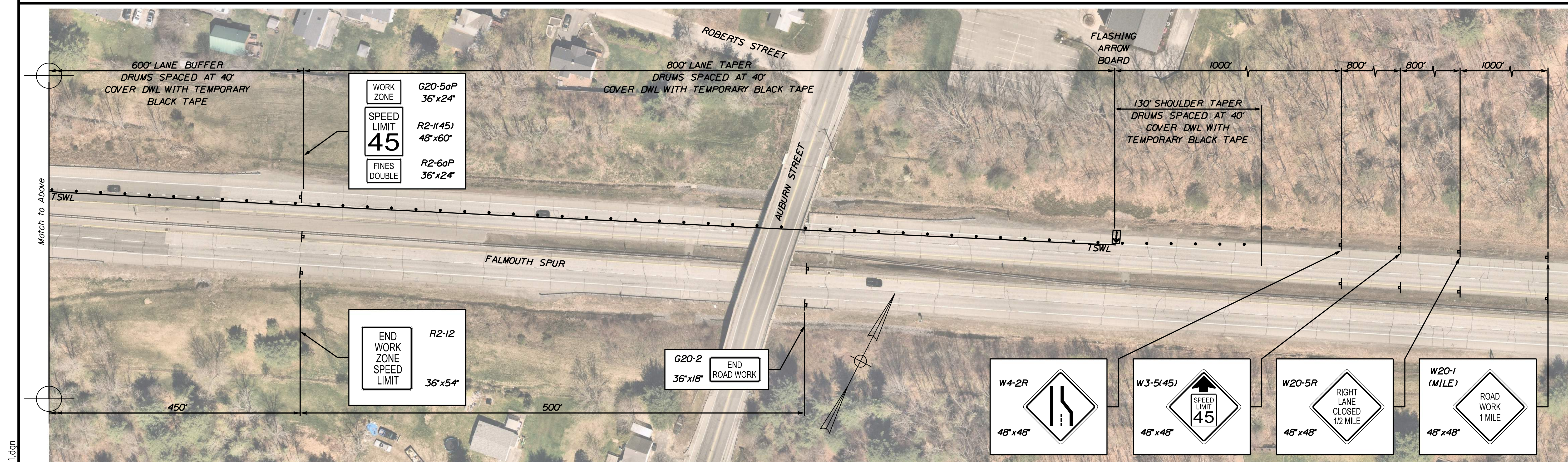
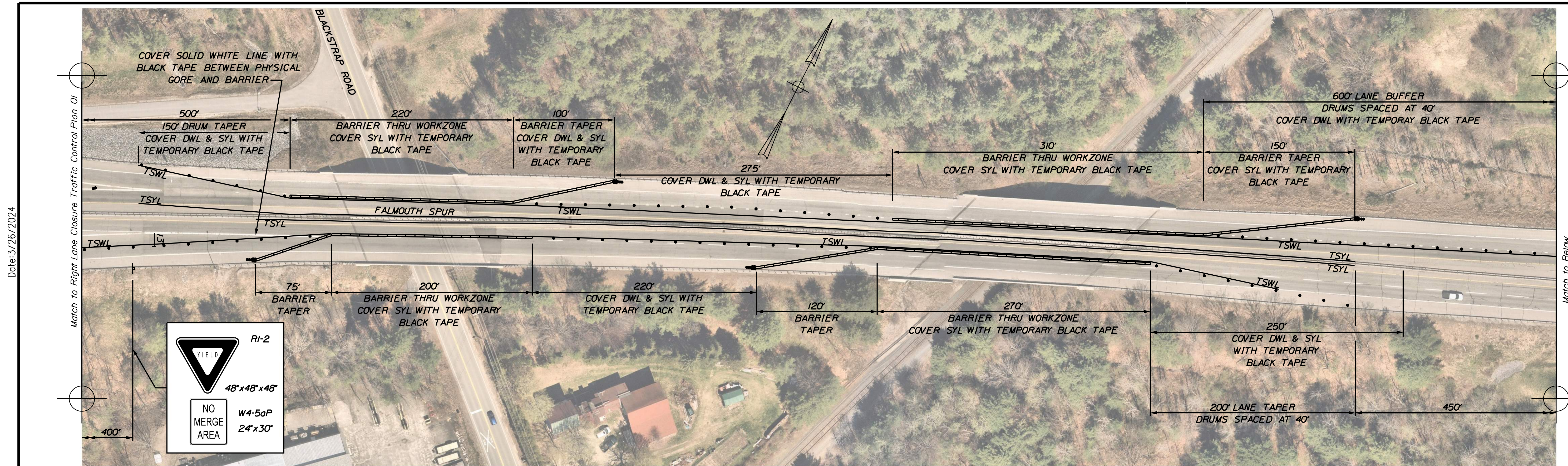
THE GOLD STAR
 MEMORIAL HIGHWAY

MTA PROJECT NO. 2024.07
 BLACKSTRAP ROAD OVERPASS/FALMOUTH
 SPUR AT MM FS0.40 IN FALMOUTH, ME
 RIGHT LANE CLOSURE
 TRAFFIC CONTROL PLAN 01

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington			
Designed	MLG	3/26/24	Checked
Drawn	JAR	3/26/24	In Charge of
			MDS
			GME
			3/26/24
			3/26/24

MTA PROJECT MANAGER: Ryan Barnes PE, CPESC



Scale: 50 0 50 100
1" = 50'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MLG	3/26/24	Checked	MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes PE, CPESC

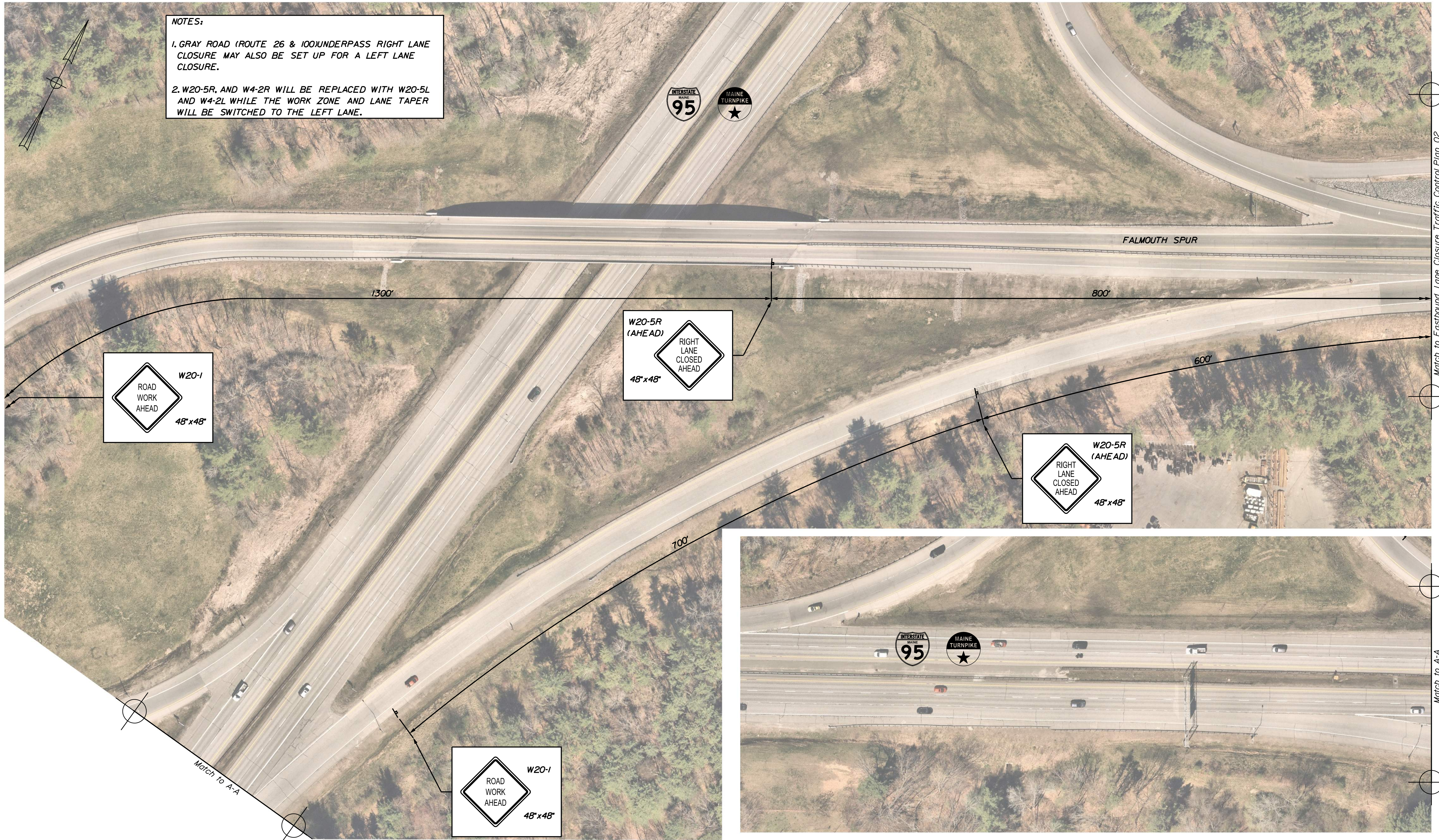
MTA PROJECT NO. 2024.07
BLACKSTRAP ROAD OVERPASS/FALMOUTH SPUR AT MM FS0.40 IN FALMOUTH, ME
RIGHT LANE CLOSURE
TRAFFIC CONTROL PLAN 02

VHB: 55729.00 SHEET NUMBER: 20
CONTRACT: 2024.07 20 OF 38

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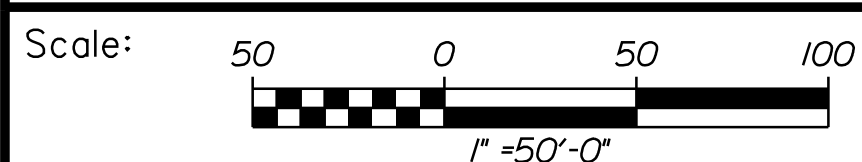
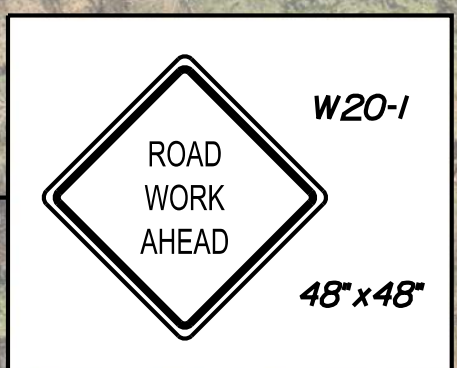
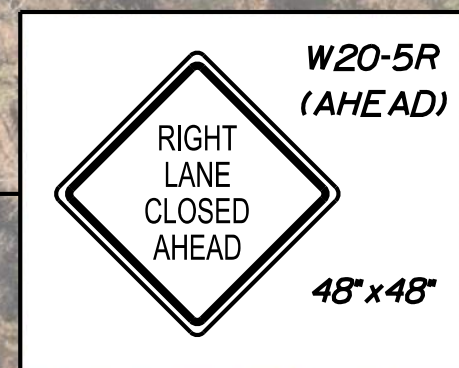
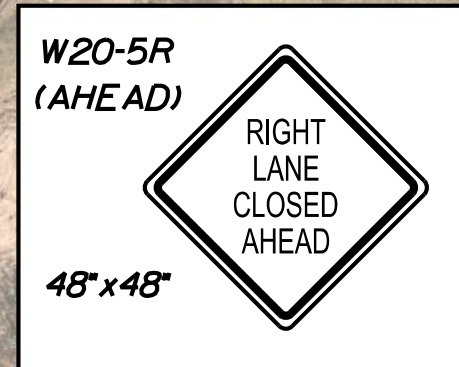
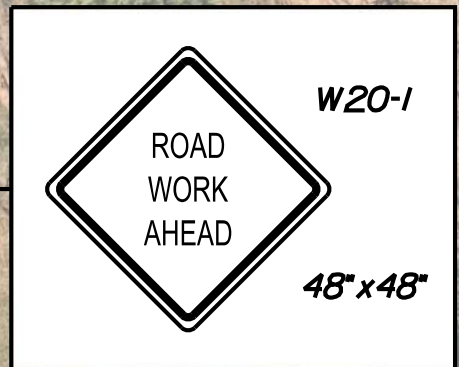
Date: 3/26/2024

Filename: ...MSTA021_TCP_12.dgn




NOTES:

1. GRAY ROAD (ROUTE 26 & 100) UNDERPASS RIGHT LANE CLOSURE MAY ALSO BE SET UP FOR A LEFT LANE CLOSURE.
2. W20-5R, AND W4-2R WILL BE REPLACED WITH W20-5L AND W4-2L WHILE THE WORK ZONE AND LANE TAPER WILL BE SWITCHED TO THE LEFT LANE.



No.	Revision	By	Date

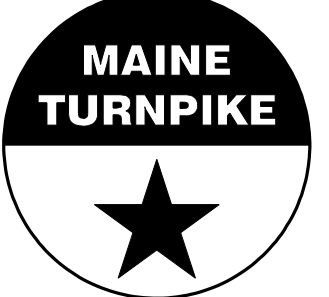
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	3/26/24		MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
 GRAY ROAD (ROUTE 26 & 100) UNDERPASS
 AT MM FS0.70 IN FALMOUTH
 EASTBOUND LANE CLOSURE
 TRAFFIC CONTROL PLAN 01

VHB: 55729.00
 CONTRACT: 2024.07

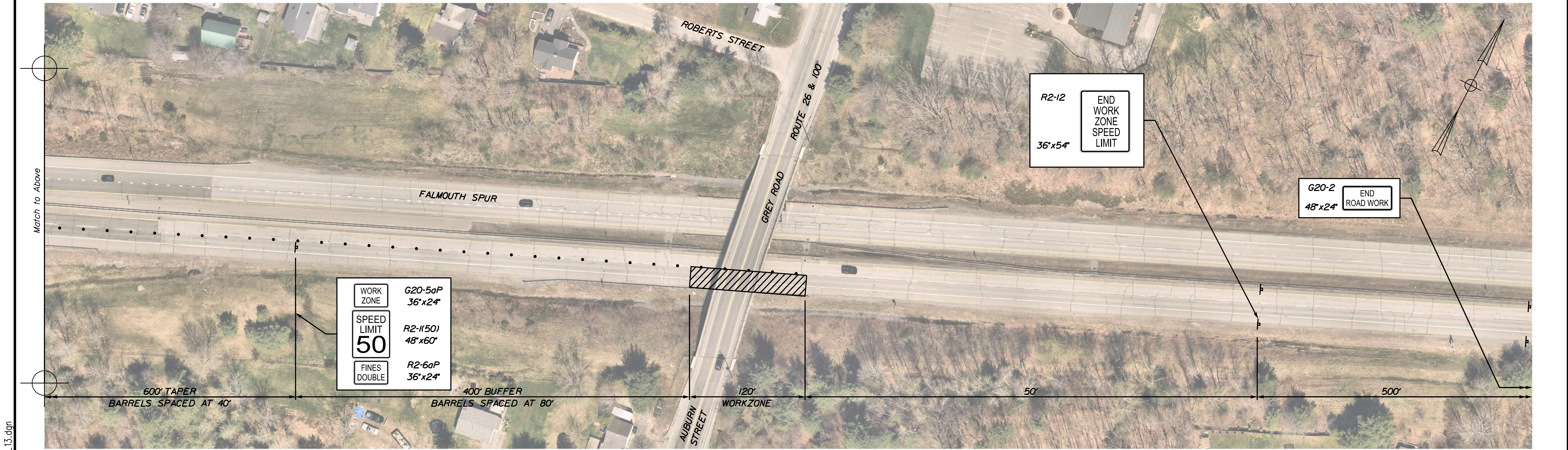
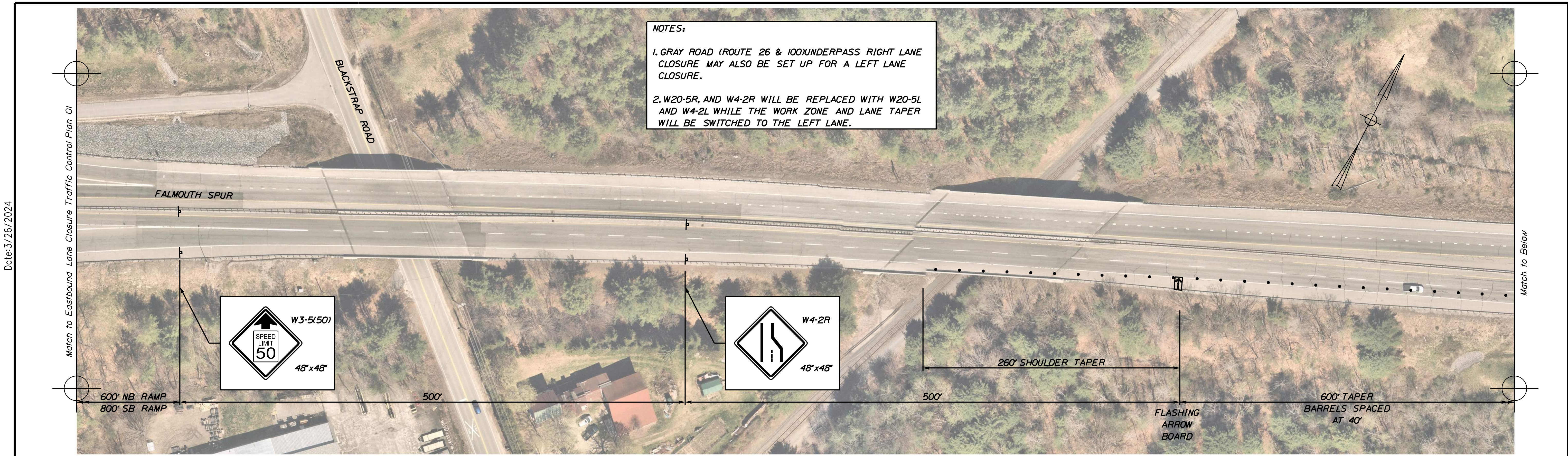
SHEET NUMBER: 21
 21 OF 38

Match to Eastbound Lane Closure Traffic Control Plan 02

Match to A-A

NOTES:


1. GRAY ROAD (ROUTE 26 & 100) UNDERPASS RIGHT LANE CLOSURE MAY ALSO BE SET UP FOR A LEFT LANE CLOSURE.
2. W20-5R, AND W4-2R WILL BE REPLACED WITH W20-5L AND W4-2L WHILE THE WORK ZONE AND LANE TAPER WILL BE SWITCHED TO THE LEFT LANE.



Scale: 1" = 50'-0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MLG	3/26/24	Checked	MDS	3/26/24
Drawn	JAR	3/26/24	In Charge of	GME	3/26/24

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

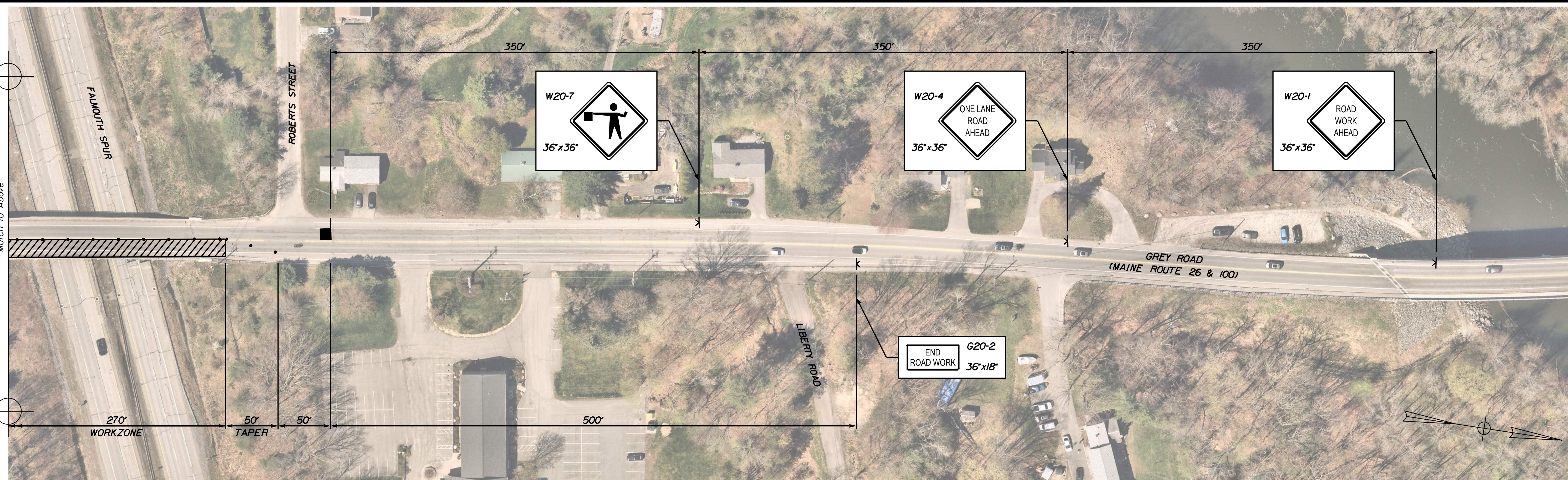
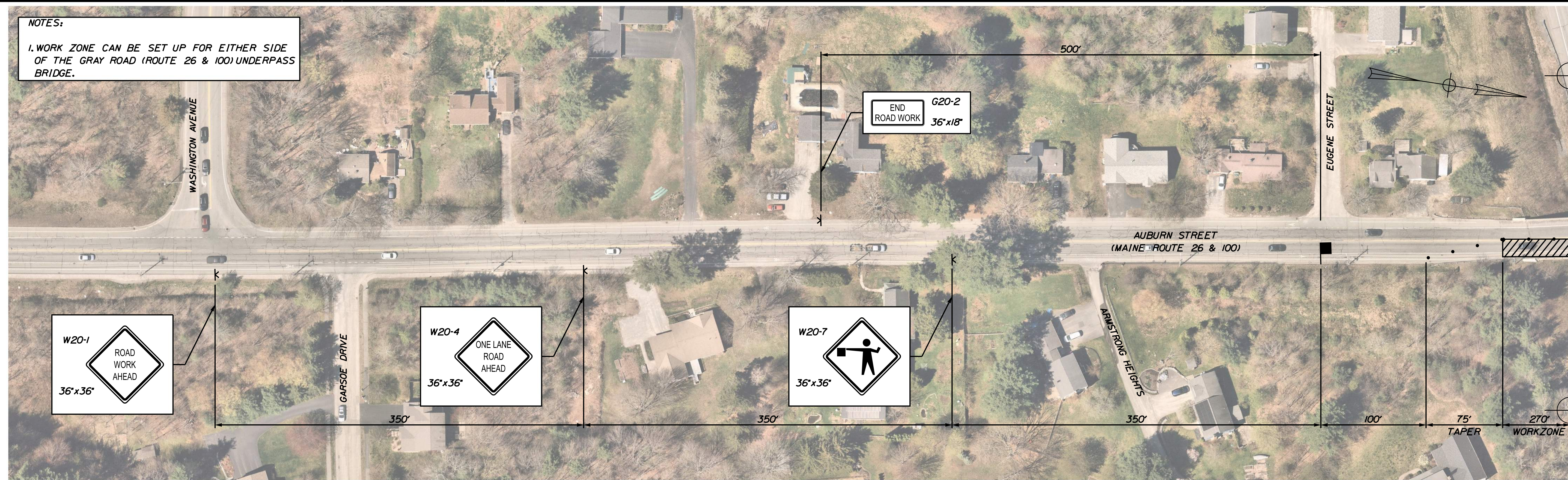
MTA PROJECT NO. 2024.07
 GRAY ROAD (ROUTE 26 & 100) UNDERPASS
 AT MM FS0.70 IN FALMOUTH
 EASTBOUND LANE CLOSURE
 TRAFFIC CONTROL PLAN 02

VHB: 55729.00
 CONTRACT: 2024.07

SHEET NUMBER: 22
 22 OF 38

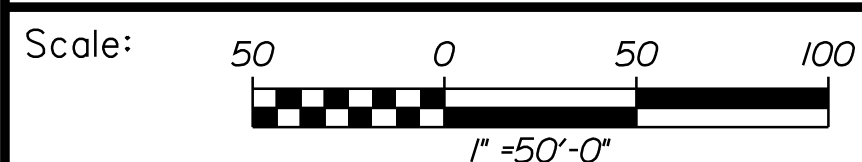
Date: 3/26/2024
 Match to Eastbound Lane Closure Traffic Control Plan 01
 Match to Above
 Match to Below
 Filename: ...MSTA\022_TCP_13.dgn

NOTES:
 1. WORK ZONE CAN BE SET UP FOR EITHER SIDE OF THE GRAY ROAD (ROUTE 26 & 100) UNDERPASS BRIDGE.



Date: 3/26/2024

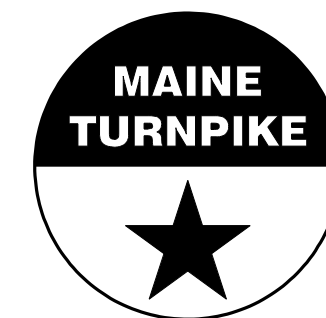
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2024.07
 GRAY ROAD (ROUTE 26 & 100) UNDERPASS
 AT MM FS0.70 IN FALMOUTH
 FLAGGING
 TRAFFIC CONTROL PLAN

No.	Revision	By	Date

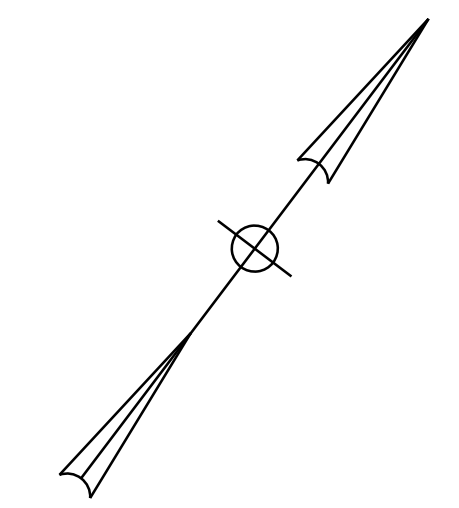
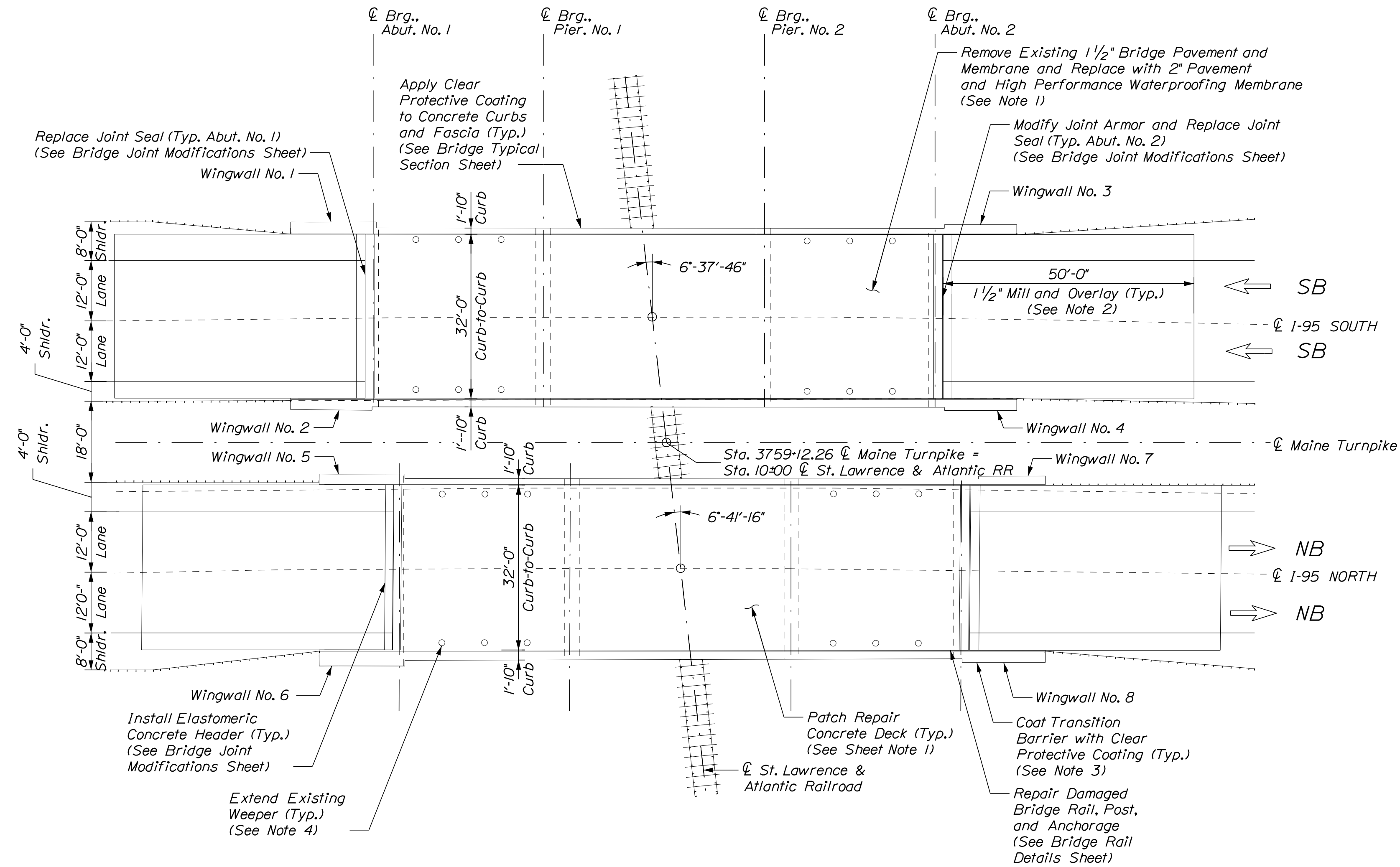
CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MLG	3/26/24	Checked
Drawn	JAR	3/26/24	In Charge of
			GME

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

VHB: 55729.00
 CONTRACT: 2024.07
 SHEET NUMBER: 23
 23 OF 38

Date: 3/26/2024

Filename: ...MSTA\024_MM_74.50_plan.dgn



ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Full Depth Concrete Repairs	120
*Assumes 1.5% of the Deck will require Full Depth Concrete Repairs	
Partial Depth Concrete Repairs	240
**Assumes 3.5% of the Deck will require Partial Depth Concrete Repairs	
Overhead Surface Repairs	40
***Includes 2 S.F. Additional Repair Quantity as a Contingency	

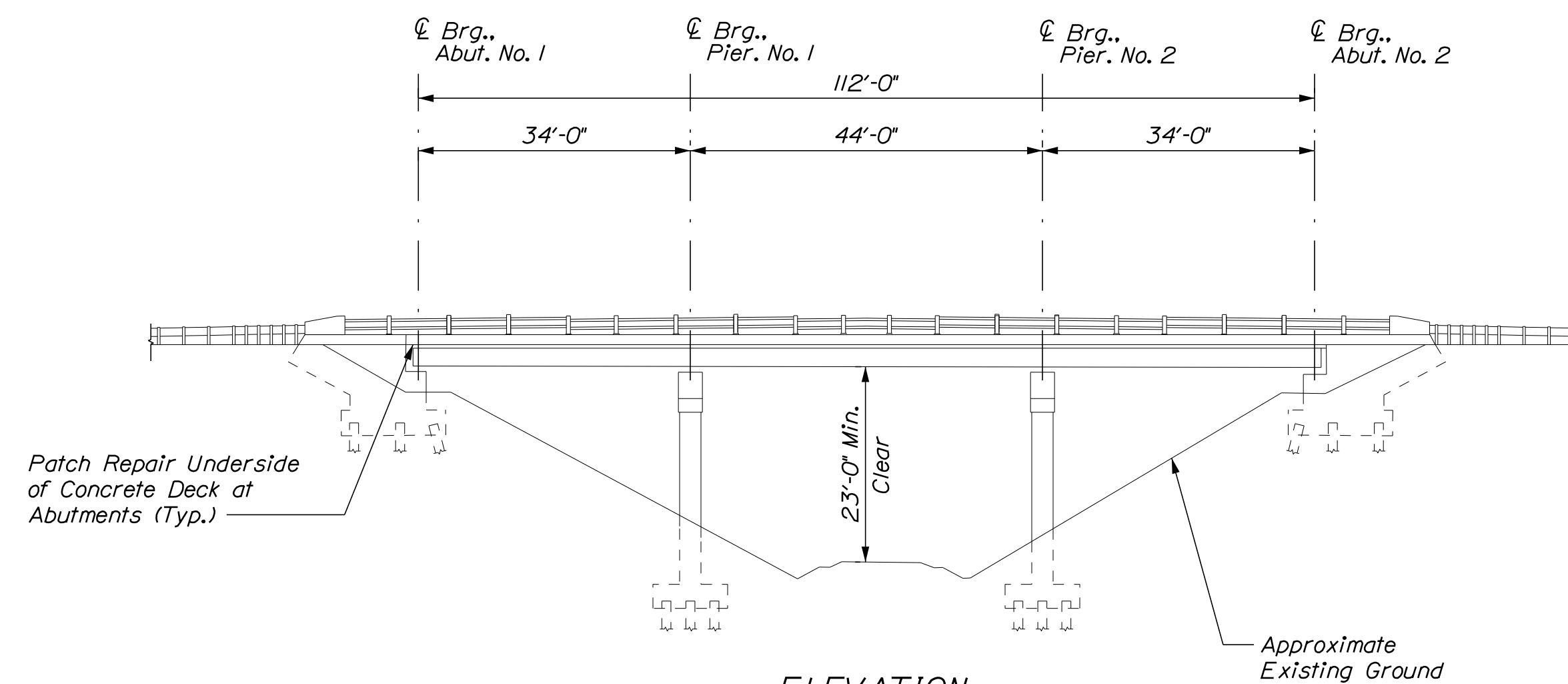
NOTES

1. Bridge pavement shall be tapered from 2" to 1 1/2" over 35 ft to match with the proposed joint header as directed by the Resident.
2. Mill and Pave 1 1/2" HMA. Depth of mill shall be based on string-line measurements to achieve a smooth transition between existing and approach pavement.
3. Clear Protective Coating shall be paid for under Item 515.202 Clear Protective Coating for Concrete Surfaces.
4. Extending existing weepers shall be paid for under Item 502.7011 Weep Drain Extensions. See Miscellaneous Repair Details Sheet.

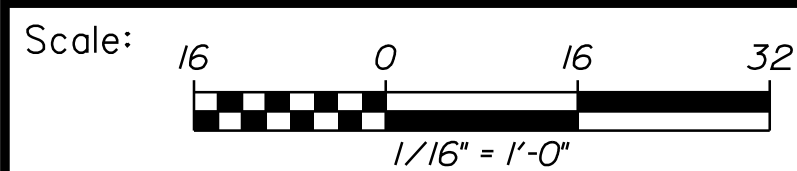
SHEET NOTE

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

PLAN
Scale: 1/16" = 1'-0"



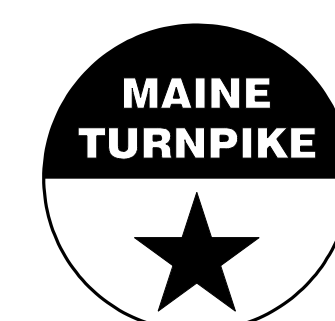
ELEVATION
(NB Shown, SB Similar)
Scale: 1/16" = 1'-0"



Designed by:



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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS
AT MM 74.50 IN AUBURN
BRIDGE PLAN AND ELEVATION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	MJC	3/26/24	In Charge of	GME	3/26/24

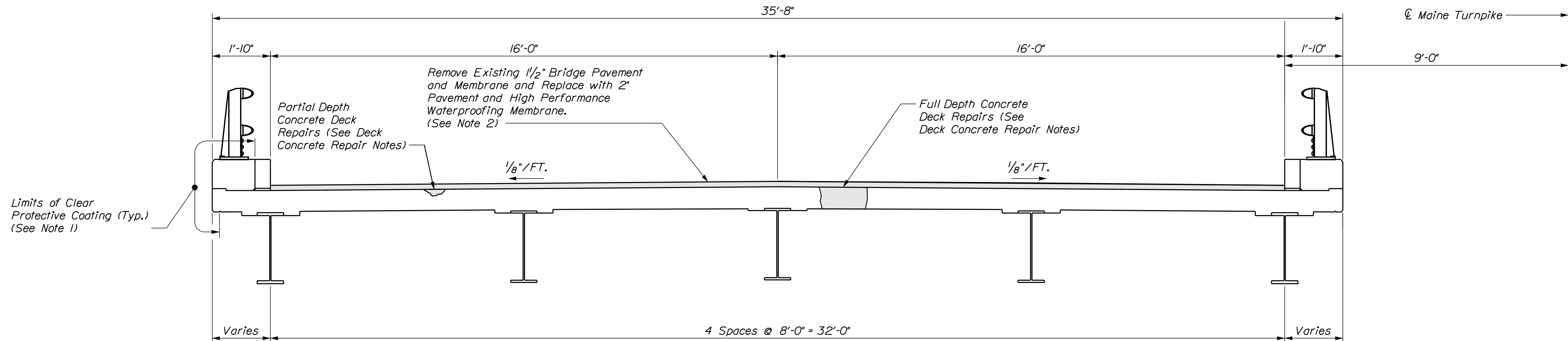
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

VHB: 55729.00
CONTRACT: 2024.07

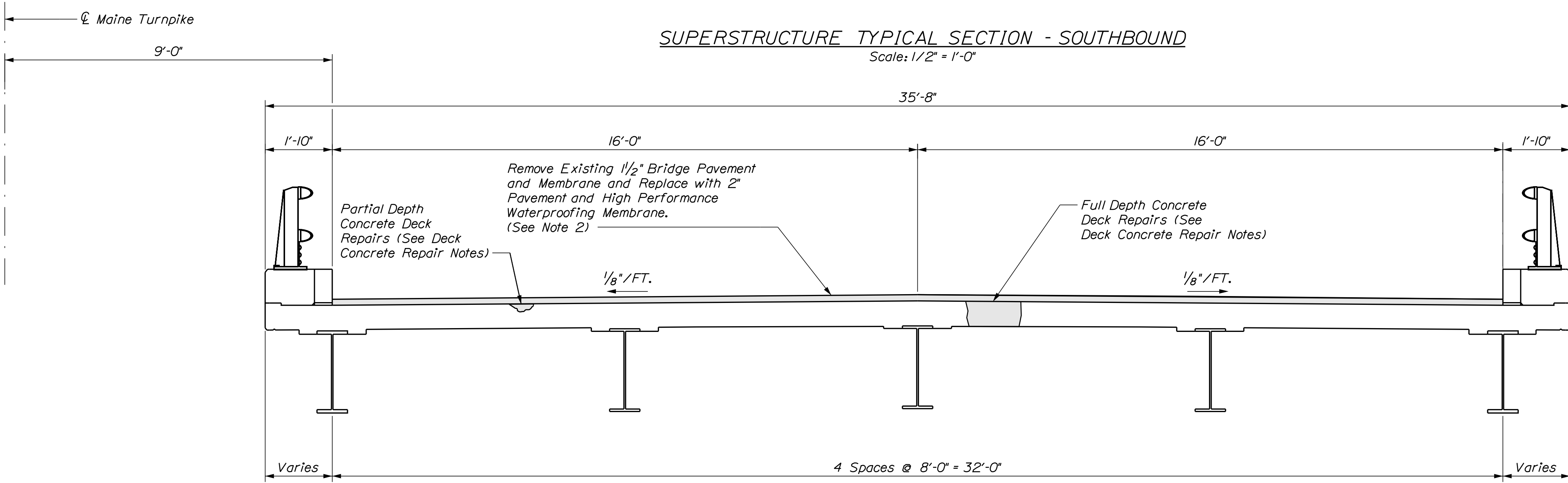
SHEET NUMBER: 24
24 OF 38

Date: 3/26/2024

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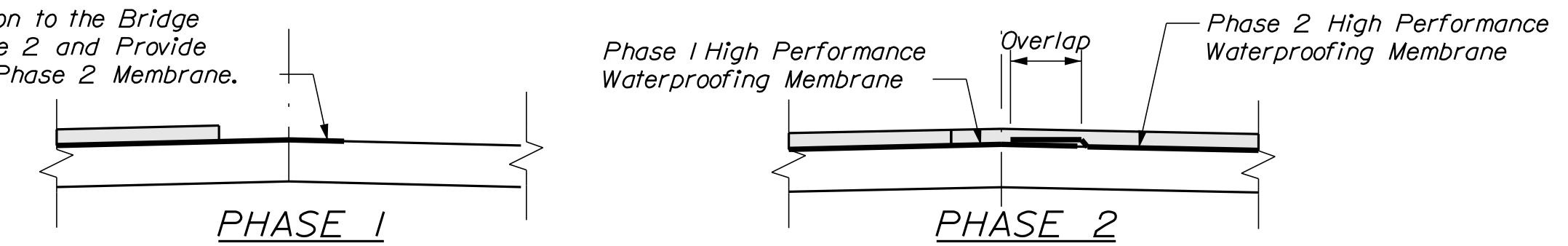


SUPERSTRUCTURE TYPICAL SECTION - SOUTHBOUND
Scale: 1/2" = 1'-0"



SUPERSTRUCTURE TYPICAL SECTION - NORTHBOUND
Scale: 1/2" = 1'-0"

Extend High Performance Waterproofing Membrane 12" Min. Beyond Edge of Phase 1 Paving Limits. Adhere the Membrane Extension to the Bridge Deck During Phase 2 and Provide 6" Min. Overlap to Phase 2 Membrane.



MEMBRANE OVERLAP DETAILS
Not to Scale

NOTES

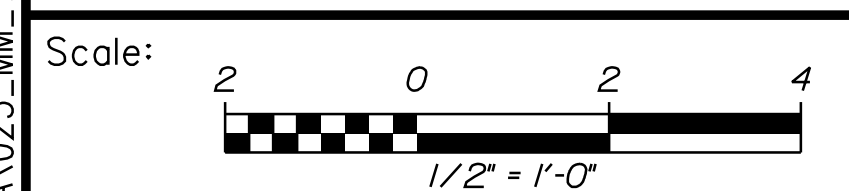
1. Clear Protective Coating Shall be Paid for Under Item 515.202 Clear Protective Coating for Concrete Surfaces.
2. Bridge Pavement Shall be Tapered from 2" to 1/2" Over 35 ft to Match with Proposed Joint Header as Directed by the Resident.

DECK CONCRETE REPAIR NOTES

1. Prior to the start of deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.81, Full Depth Concrete Deck Repairs.
2. Sawcut 1" deep along all limits of removal.
3. Chip concrete as specified in Supplemental Specification 518. If the removal limits change during the demolition process, the Contractor shall notify the Resident. The Resident and Contractor shall agree on the revised pay limits prior to the Contractor continuing the removal.
4. Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specification 518.

MEMBRANE OVERLAP NOTE

1. Details of the membrane overlap method shall be submitted to the Resident for approval.



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	MJC	3/26/24	In Charge of	GME	3/26/24

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500 Southborough Dr.
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THE GOLD STAR MEMORIAL HIGHWAY

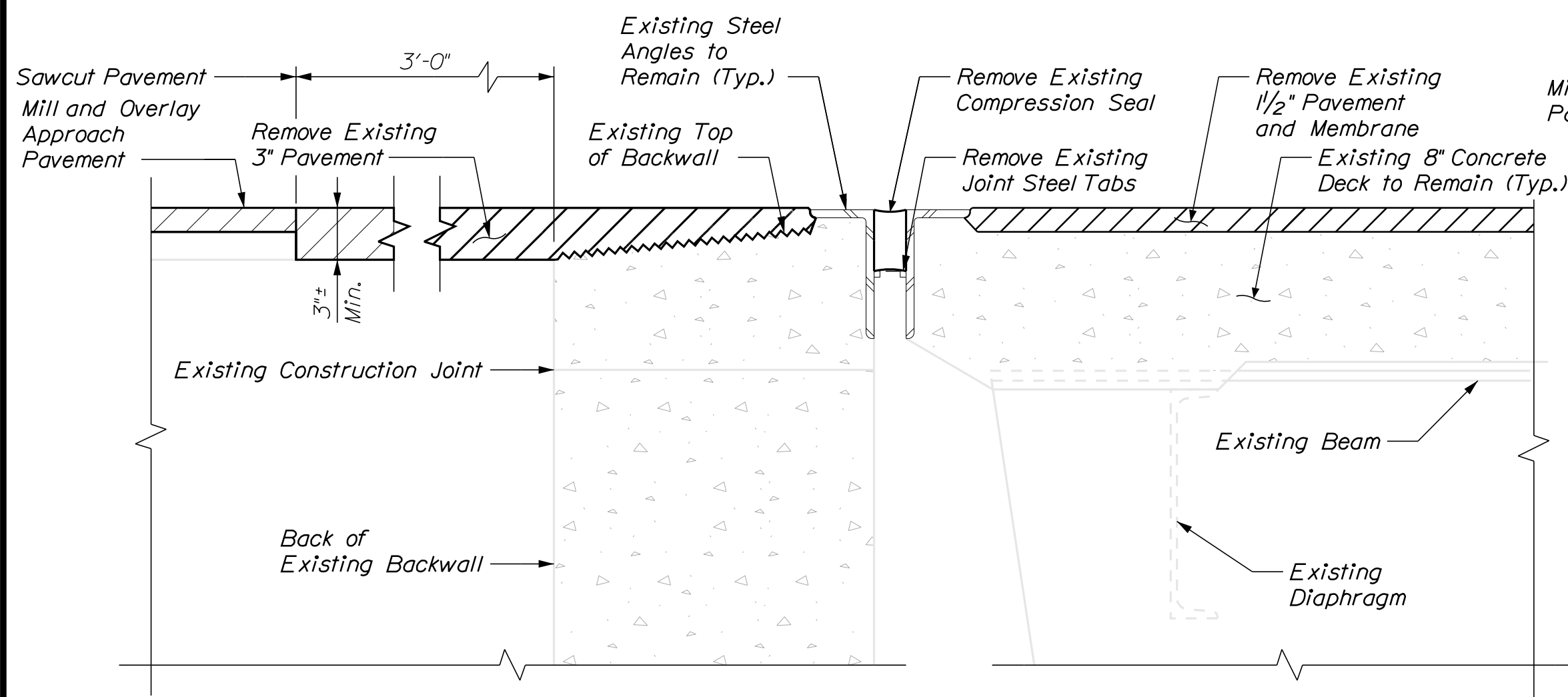
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS
AT MM 74.50 IN AUBURN
BRIDGE TYPICAL SECTION

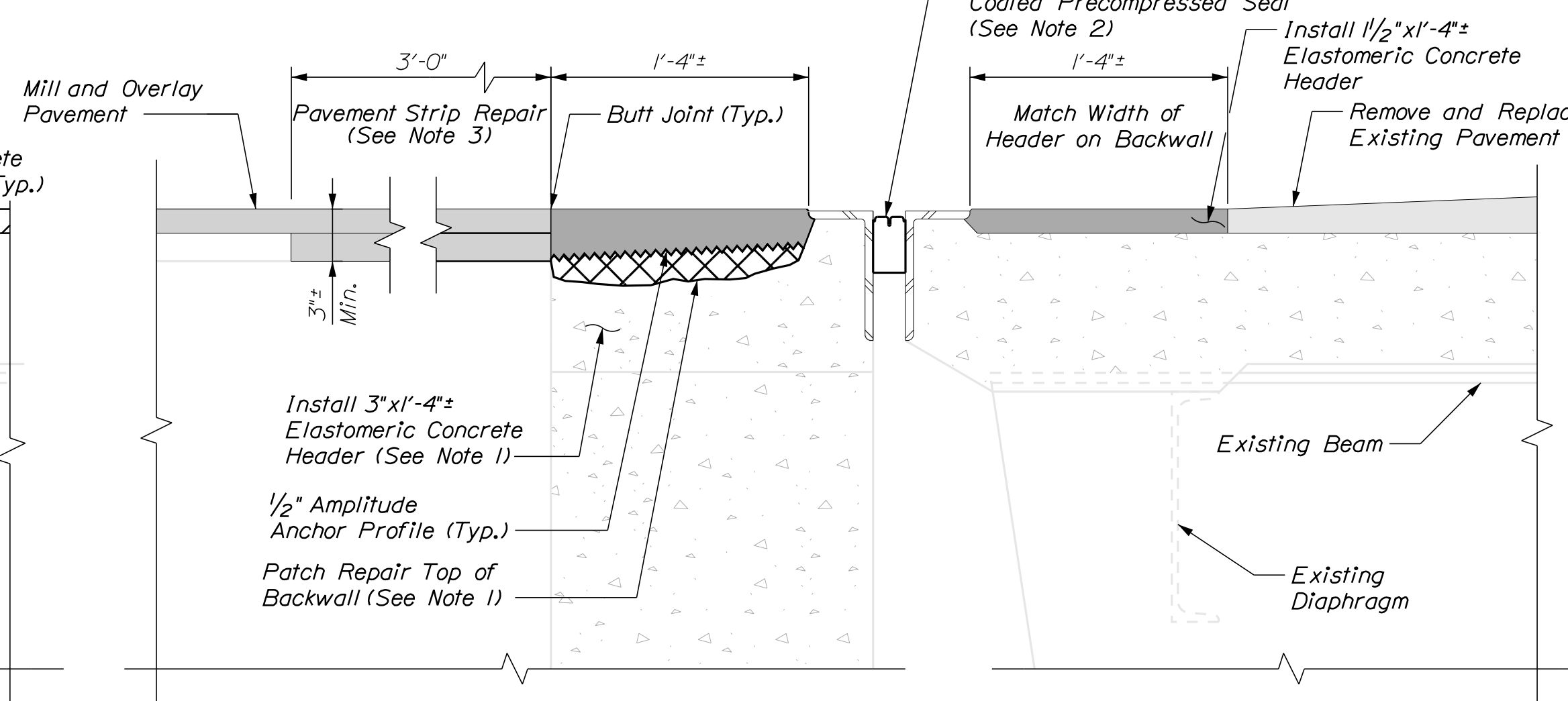
VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 25
25 OF 38

Date: 3/26/2024

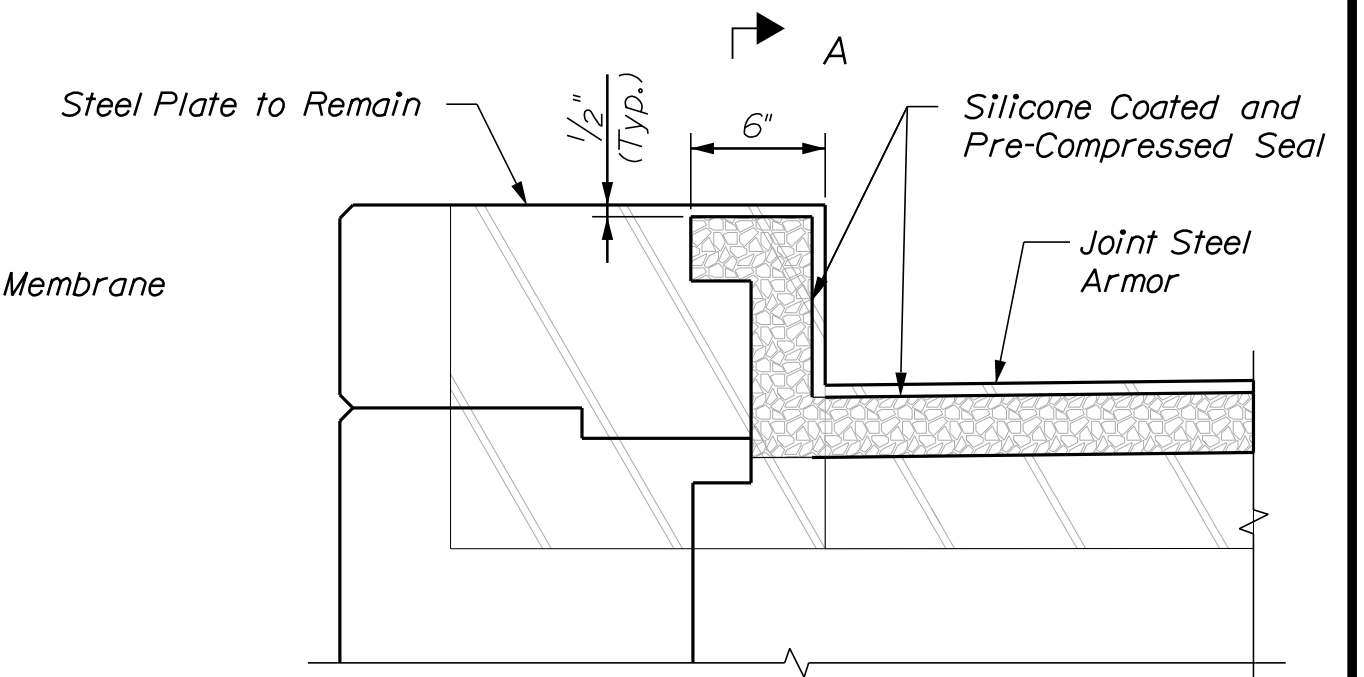


EXISTING EXPANSION JOINT SECTION

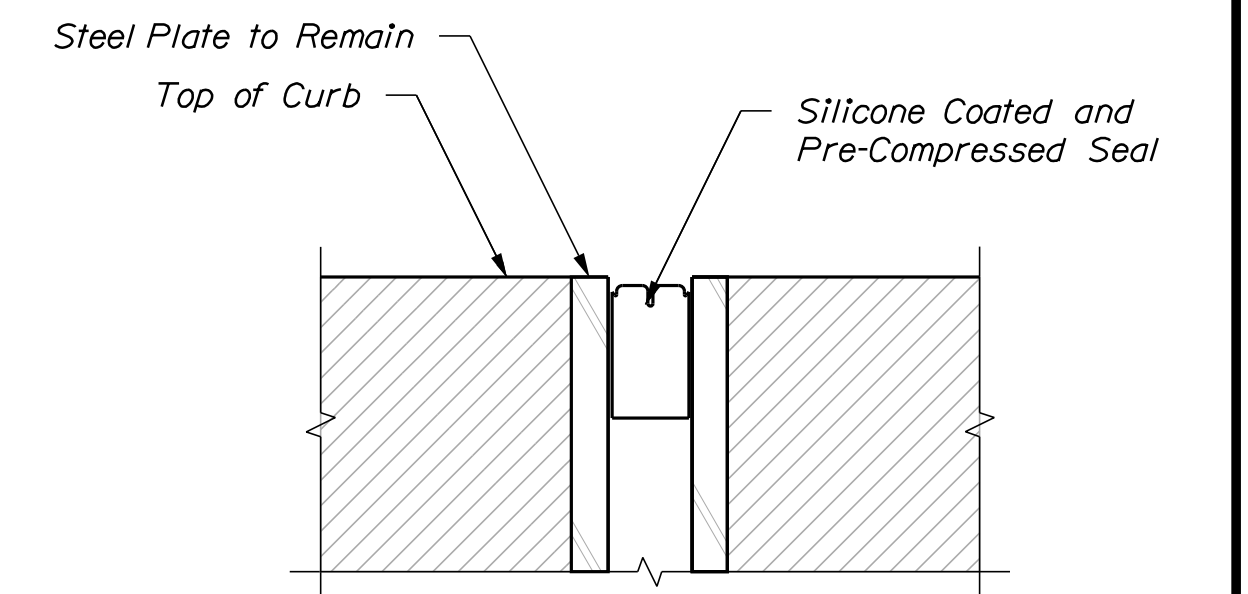


PROPOSED EXPANSION JOINT SECTION

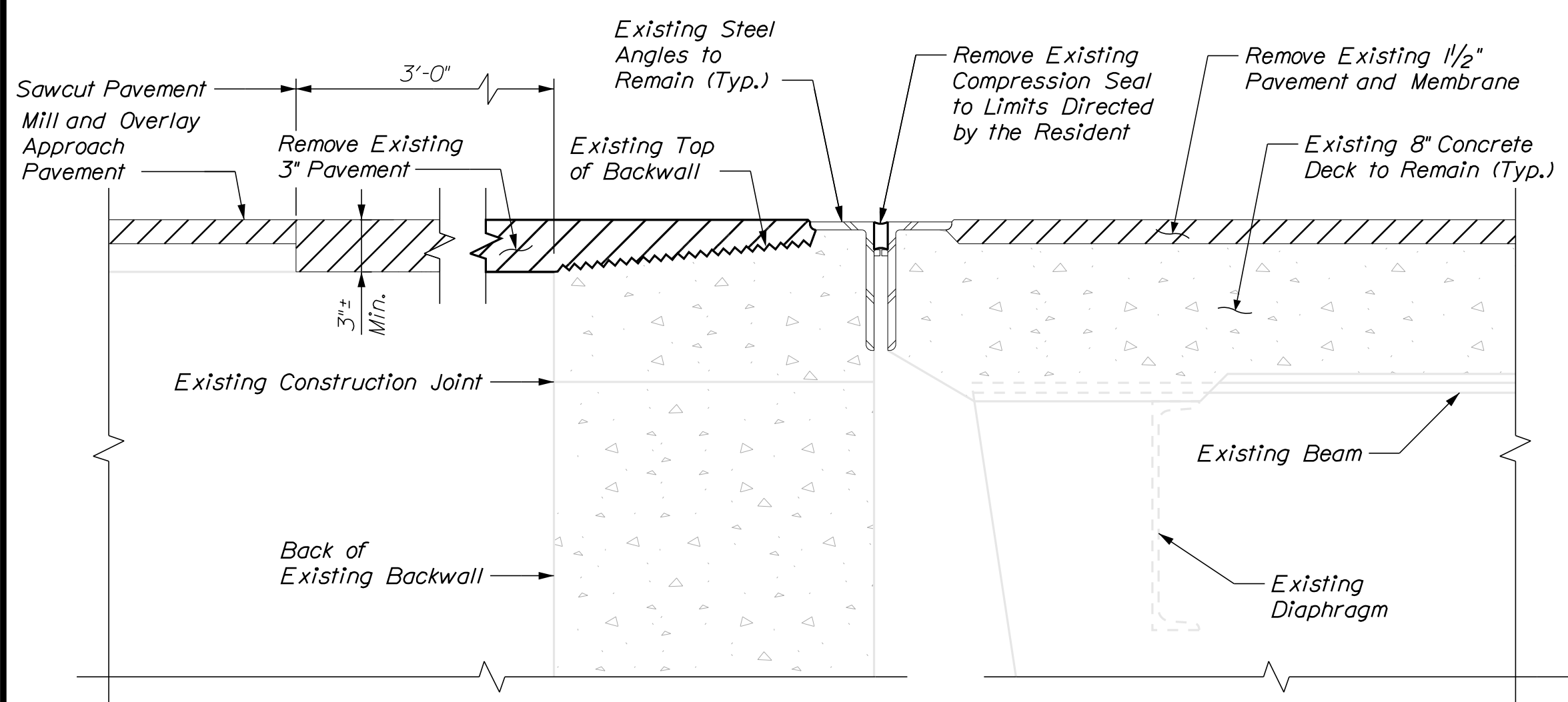
SECTIONS AT EXPANSION JOINT
AT ABUTMENT NO. 1
Not to Scale



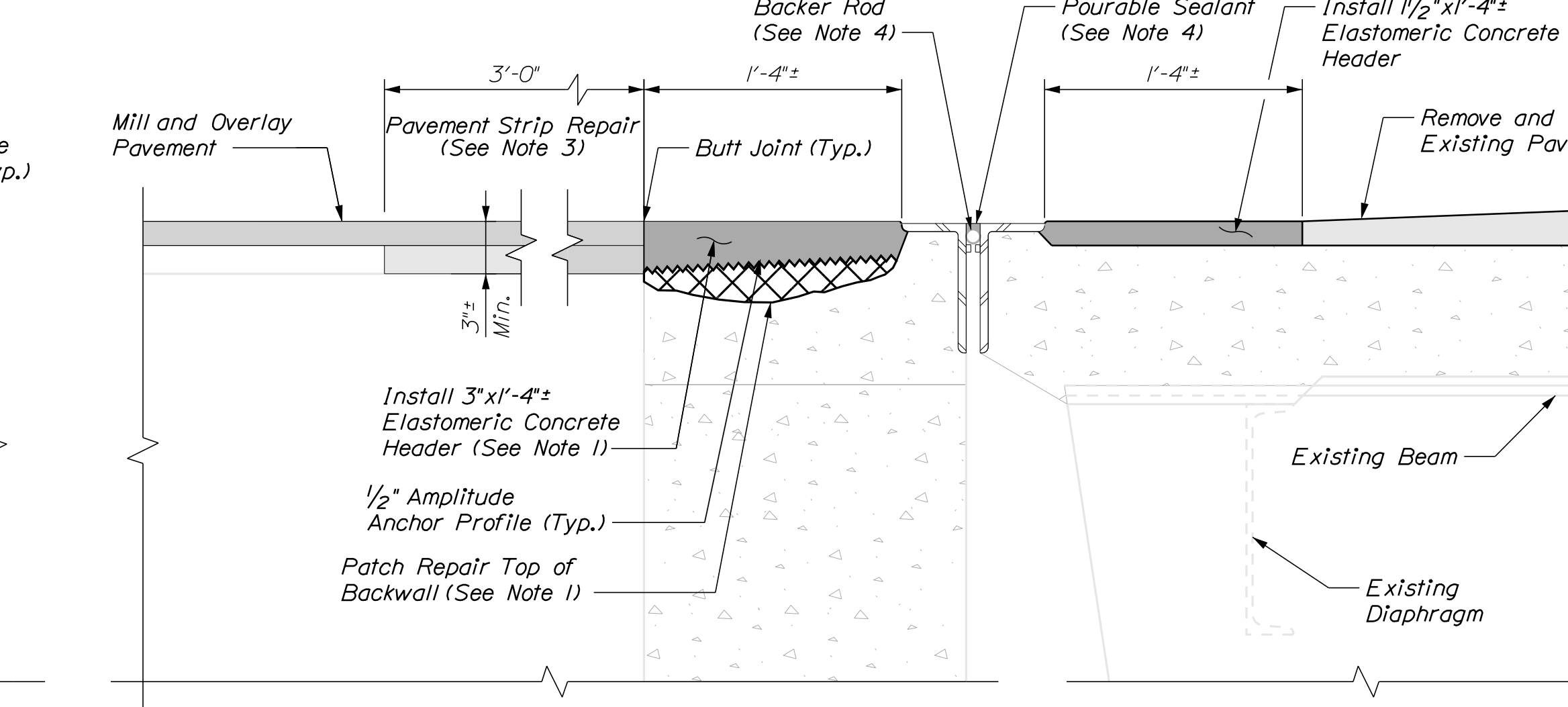
ABUTMENT NO. 1 JOINT DETAIL AT CURB
(Median Curb Shown, Fascia Curb Similar)
Not to Scale



SECTION A-A
Not to Scale



EXISTING EXPANSION JOINT SECTION



PROPOSED EXPANSION JOINT SECTION

SECTIONS AT EXPANSION JOINT
AT ABUTMENT NO. 2
Not to Scale

NOTES

1. Elastomeric Concrete Header shall be paid under Item 518.863 Elastomeric Concrete Header Repair. Prior to placing the elastomeric concrete, the Contractor shall remove any areas of deteriorated concrete in accordance with Supplemental Specification 518 and as directed by the Resident. If repairs to the top of the backwall are needed, the Contractor shall repair with elastomeric concrete and repairs shall be paid under Item 518.864 Elastomeric Concrete Header Repair. If repair depth is greater than 3" below the header, the repairs may be done with AAA concrete at the direction of the Resident and paid under Item 518.80 Partial Depth Concrete Deck Repairs.
2. Silicone Coated and Pre-Compressed Seal shall be paid under Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.
3. Pavement Strip Repair shall be paid under Item 403.208 Hot Mix Asphalt 12.5mm Nominal Maximum Size.
4. Pourable Sealant and Backer Rod shall be paid under Item 520.921, Bridge Joint Modification (St. Lawrence & Atlantic).
5. The Contractor shall extend the backer rod and pourable seal through the curb to the fascia as directed by the Resident.

Filename: ...026_MM_74.50_joint_mod.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:						
CONSULTANT PROJECT MANAGER: G. Edington						
	By	Date		By	Date	
	MFS	3/26/24		MEB	3/26/24	
	Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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**THE GOLD STAR
MEMORIAL HIGHWAY**

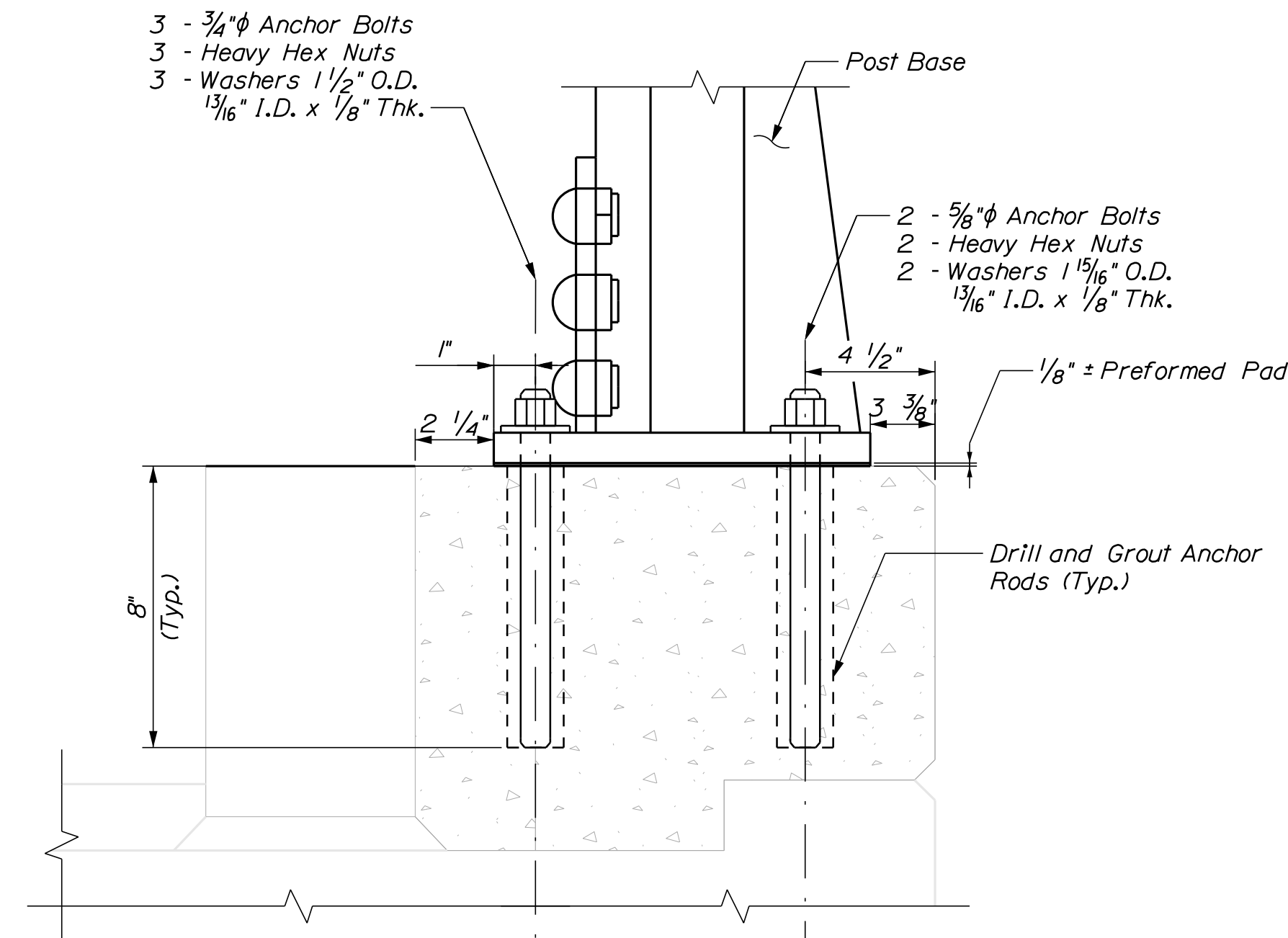
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
ST. LAWRENCE AND ATLANTIC RR
OVERPASS
AT MM 74.50 IN AUBURN
BRIDGE JOINT MODIFICATIONS

VHB: 55729.00 SHEET NUMBER: 26
CONTRACT: 2024.07 26 OF 38

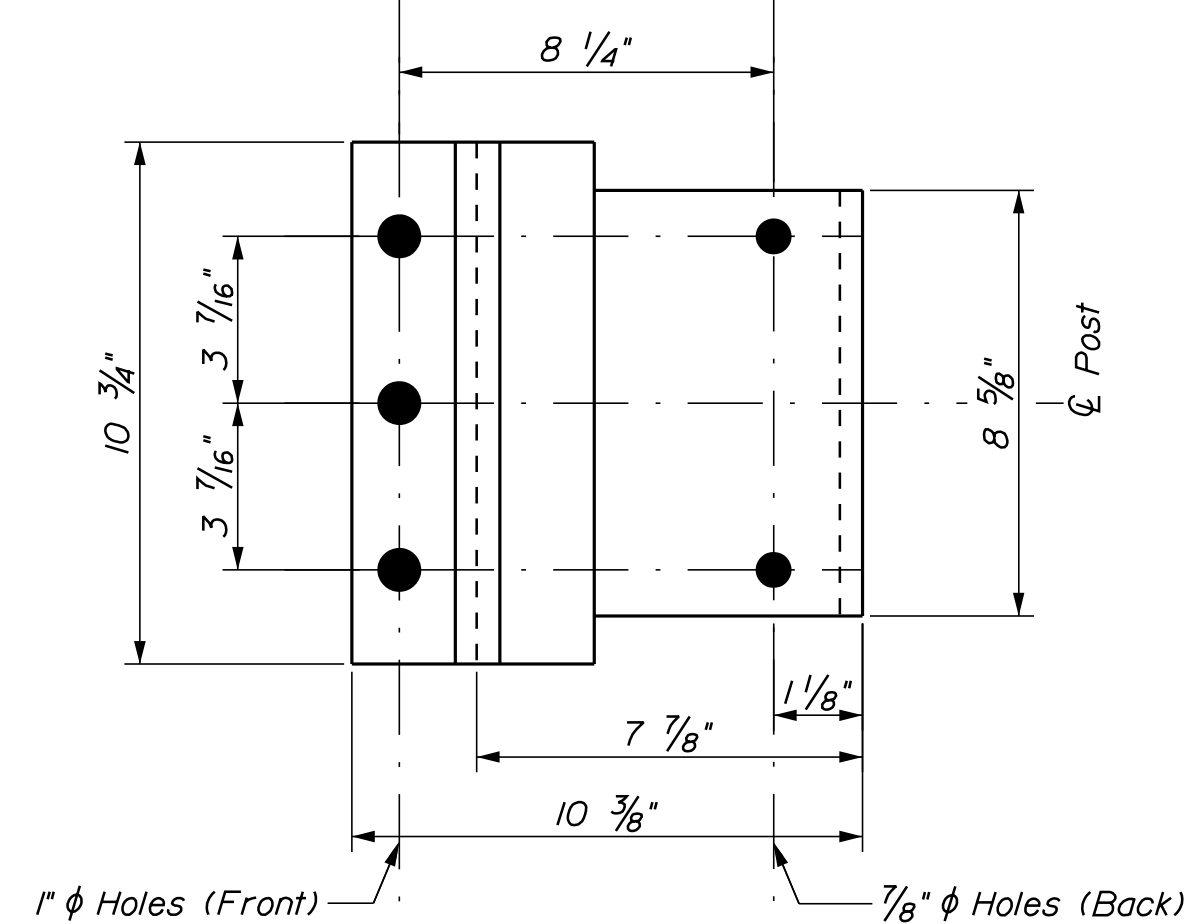
Date: 3/26/2024

Filename: ...MSTA\027_MM_74.50_rail.dgn



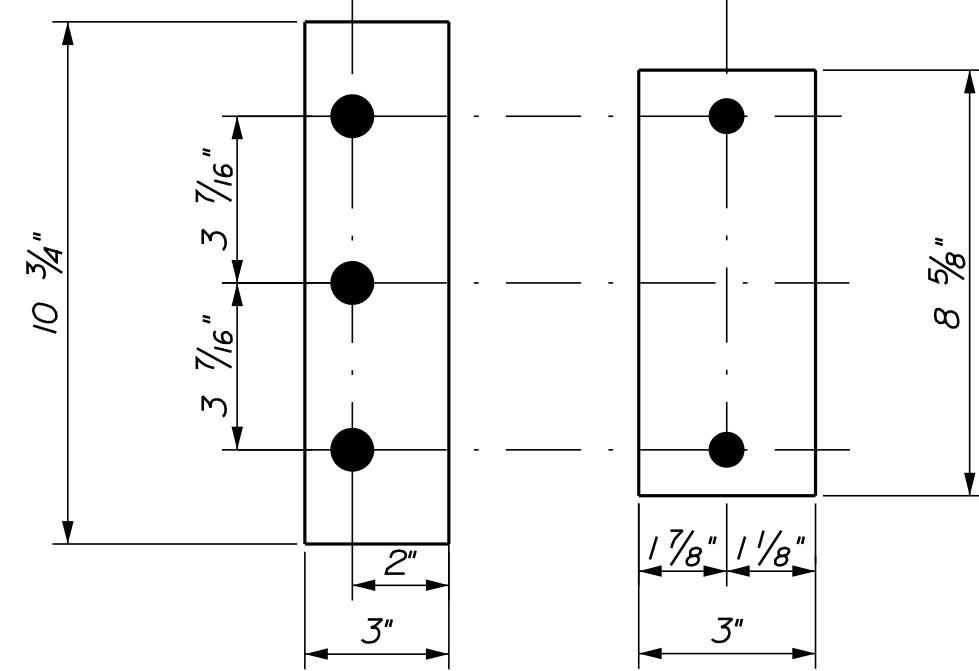
RAIL POST ANCHORAGE

Not to Scale



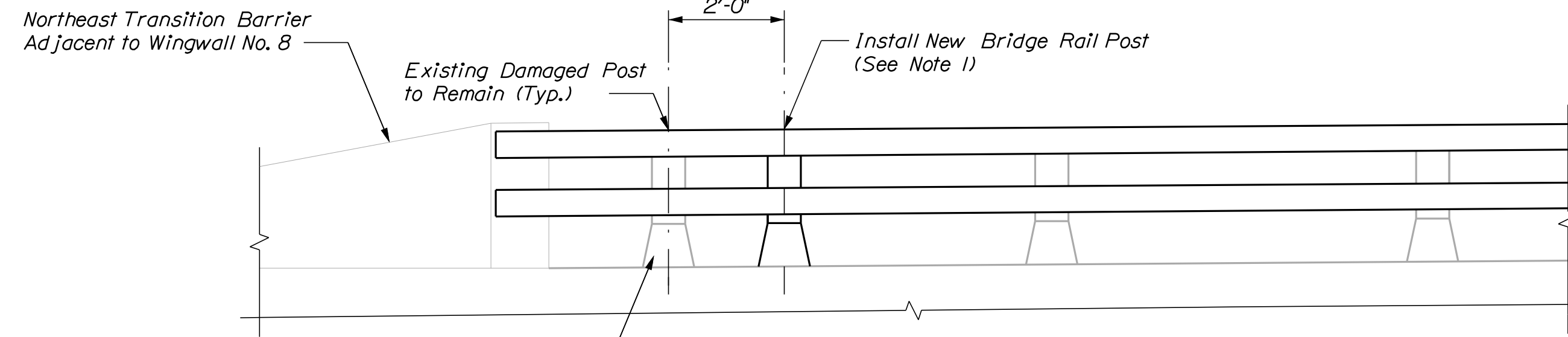
POST BASE

Not to Scale



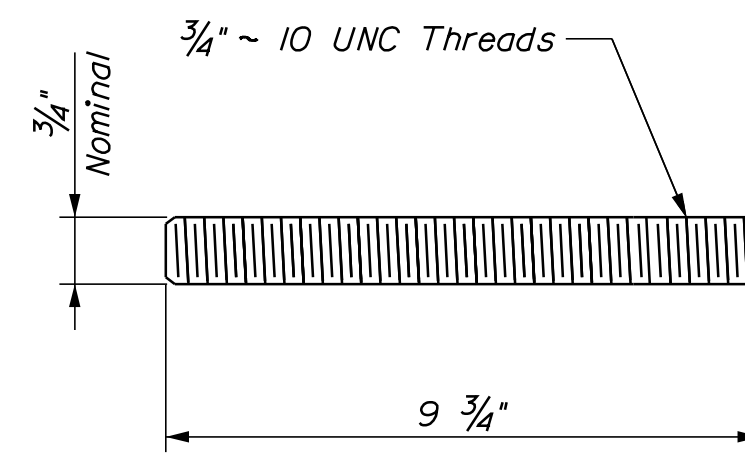
PREFORMED PADS

Not to Scale



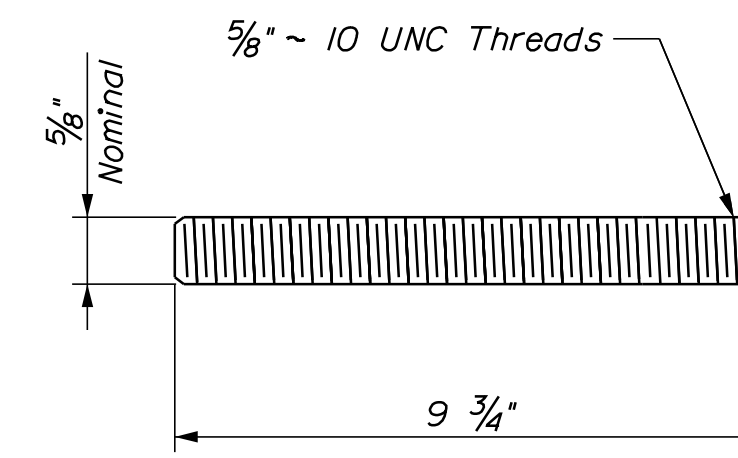
BRIDGE RAIL ELEVATION

Not to Scale



FRONT ANCHOR BOLT

Not to Scale



BACK ANCHOR BOLT

Not to Scale

NOTES

1. Installation of new bridge rail post shall be paid under item 507.812 Aluminum Bridge Rail, 2 Bar Repair.
2. The Contractor shall tighten loose anchor bolt nuts on existing damaged post. This work shall be incidental to item 507.812 Aluminum Bridge Rail, 2 Bar Repair.

ANCHOR BOLTS NOTES

1. If cut threads are used, body diameter shall be no less than nominal diameter.
2. If rolled threads are used, body diameter shall be no less than root diameter of threads.

Scale:			
Not to Scale			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MFS	3/26/24	Checked
			MEB
			3/26/24
Drawn	MJC	3/26/24	In Charge of
			GME
			3/26/24

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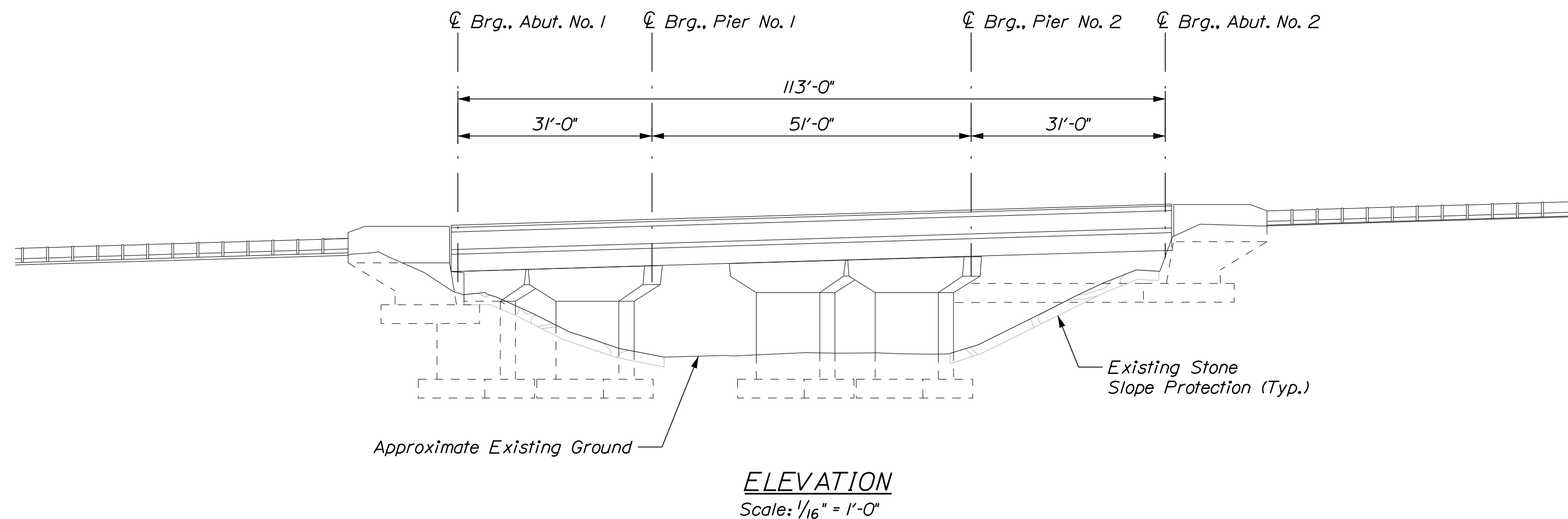
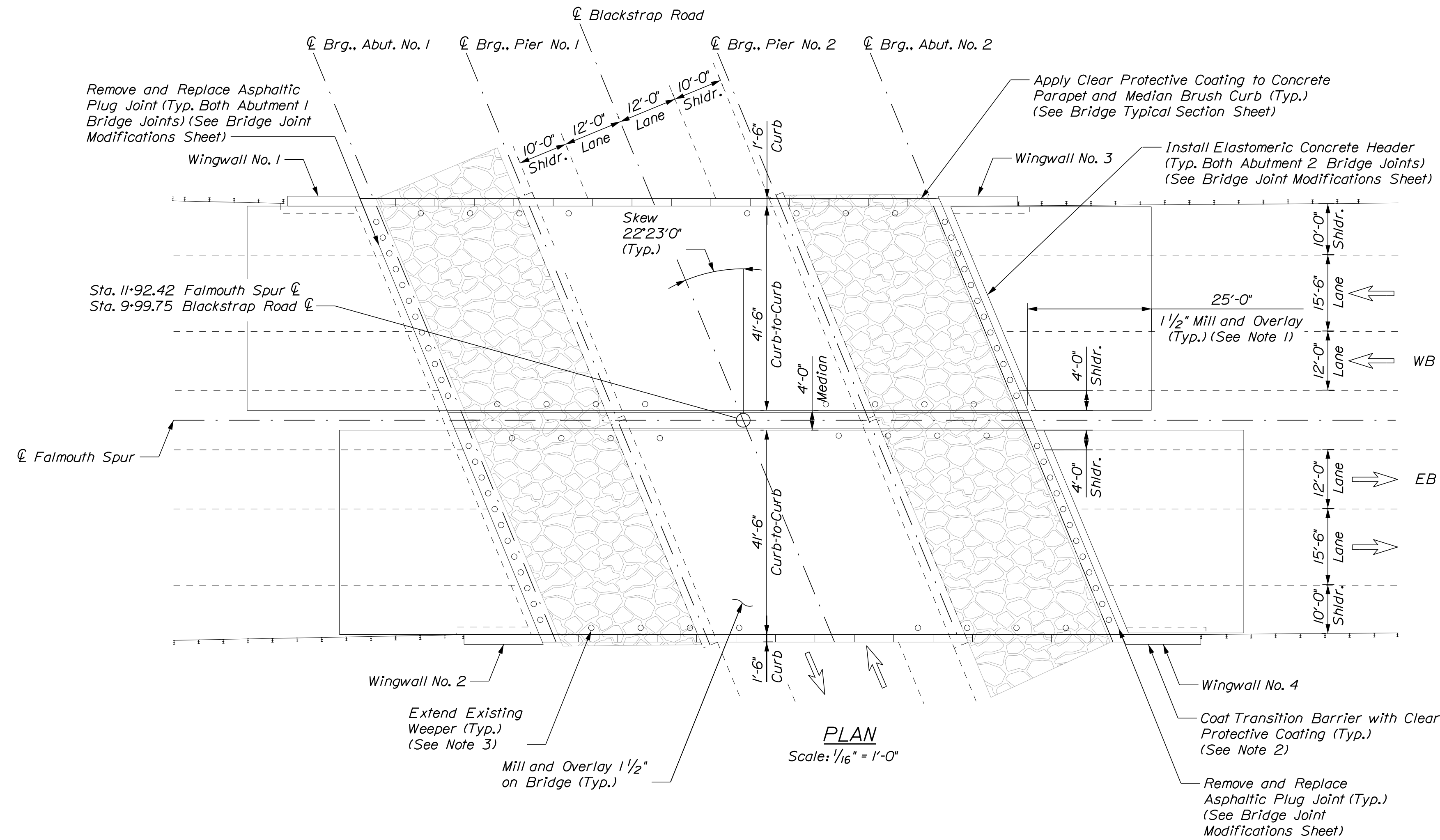
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07 ST. LAWRENCE AND ATLANTIC RR OVERPASS AT MM 74.50 IN AUBURN BRIDGE RAIL DETAILS	
VHB: 55729.00	SHEET NUMBER: 27
CONTRACT: 2024.07	27 OF 38

Date: 3/26/2024

Filename: ...MSTA\028_MM_FS0.30_plan.dgn



- NOTES**
1. Mill and pave 1 1/2" HMA. Depth of mill shall be based on string-line measurements to achieve a smooth transition between existing and approach pavement.
 2. Clear Protective Coating Shall be Paid for Under Item 515.202 Clear Protective Coating for Concrete Surfaces.
 3. Extending existing weepers shall be paid for under Item 502.7011 Weep Drain Extensions. See Miscellaneous Repair Details Sheet.



Designed by:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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500 Southborough Dr.
Suite 105B
South Portland, ME 04106
TEL (207) 889-3150
FAX (207) 253-5596

THE GOLD STAR MEMORIAL HIGHWAY

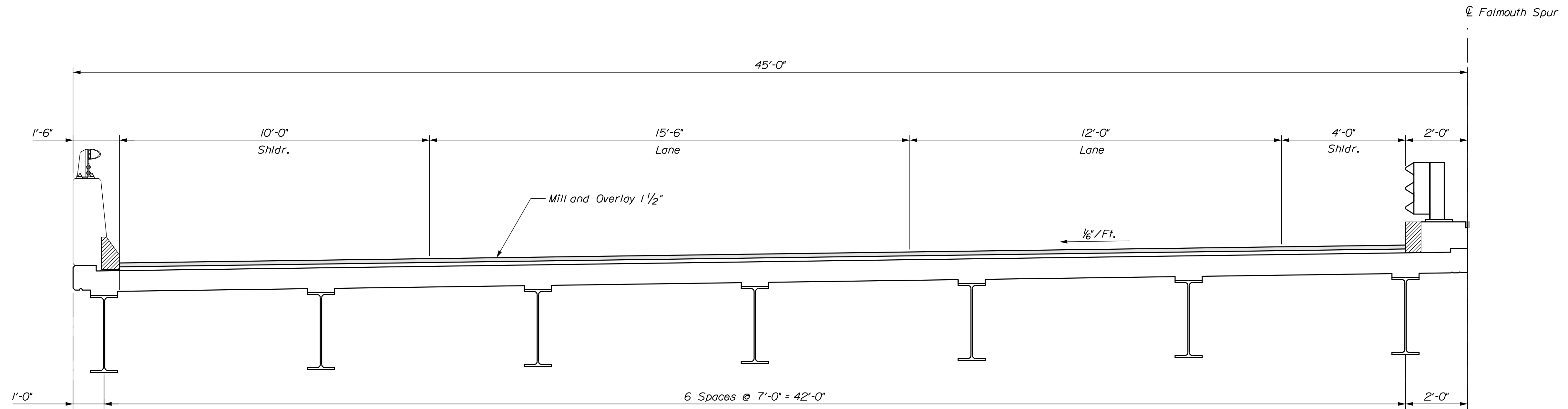
MTA PROJECT MANAGER: Ryan Barnes PE, CPESC

MTA PROJECT NO. 2024.07
BLACKSTRAP ROAD OVERPASS/FALMOUTH SPUR AT MM FS0.40 IN FALMOUTH, ME
BRIDGE PLAN AND ELEVATION

VHB: 55729.00
CONTRACT: 2024.07

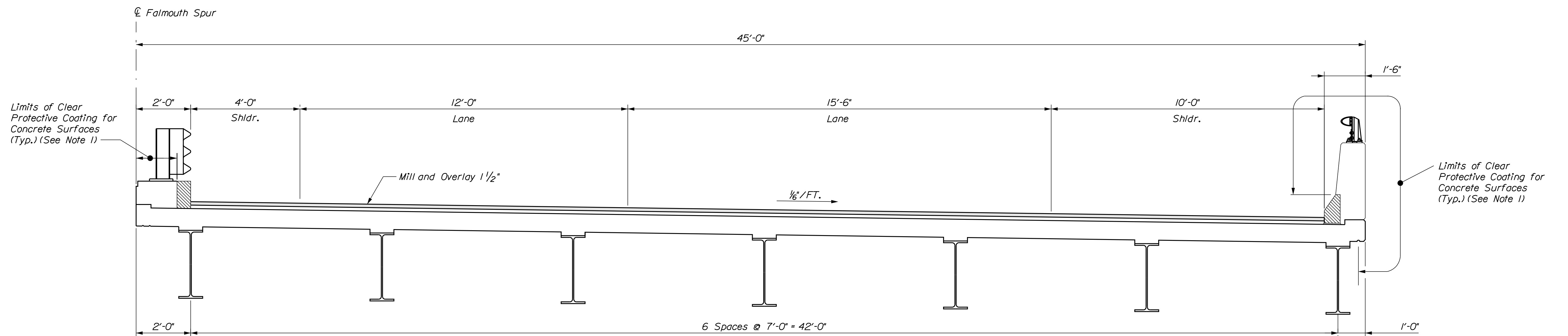
SHEET NUMBER: 28
28 OF 38

Date: 3/26/2024



SUPERSTRUCTURE TYPICAL SECTION - WESTBOUND

Scale: 1/2" = 1'-0"



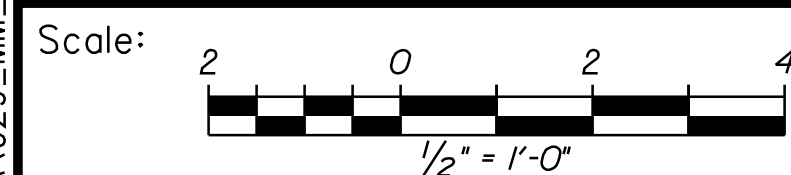
SUPERSTRUCTURE TYPICAL SECTION - EASTBOUND

Scale: 1/2" = 1'-0"

NOTE

1. Clear Protective Coating shall be paid under Item 515.202, Clear Protective Coating for Concrete Surfaces.

Filename: ...MSTA\029_MM_F0.30_Typical.dgn



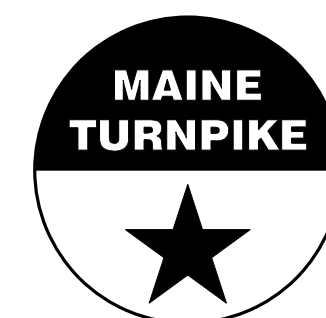
No.	Revision	By	Date

Designed by:



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500 Southborough Dr.
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CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	MJC	3/26/24	In Charge of	GME	3/26/24



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes PE, CPESC

MTA PROJECT NO. 2024.07
BLACKSTRAP ROAD OVERPASS/FALMOUTH
SPUR AT MM FS0.40 IN FALMOUTH, ME
BRIDGE TYPICAL SECTION

VHB: 55729.00

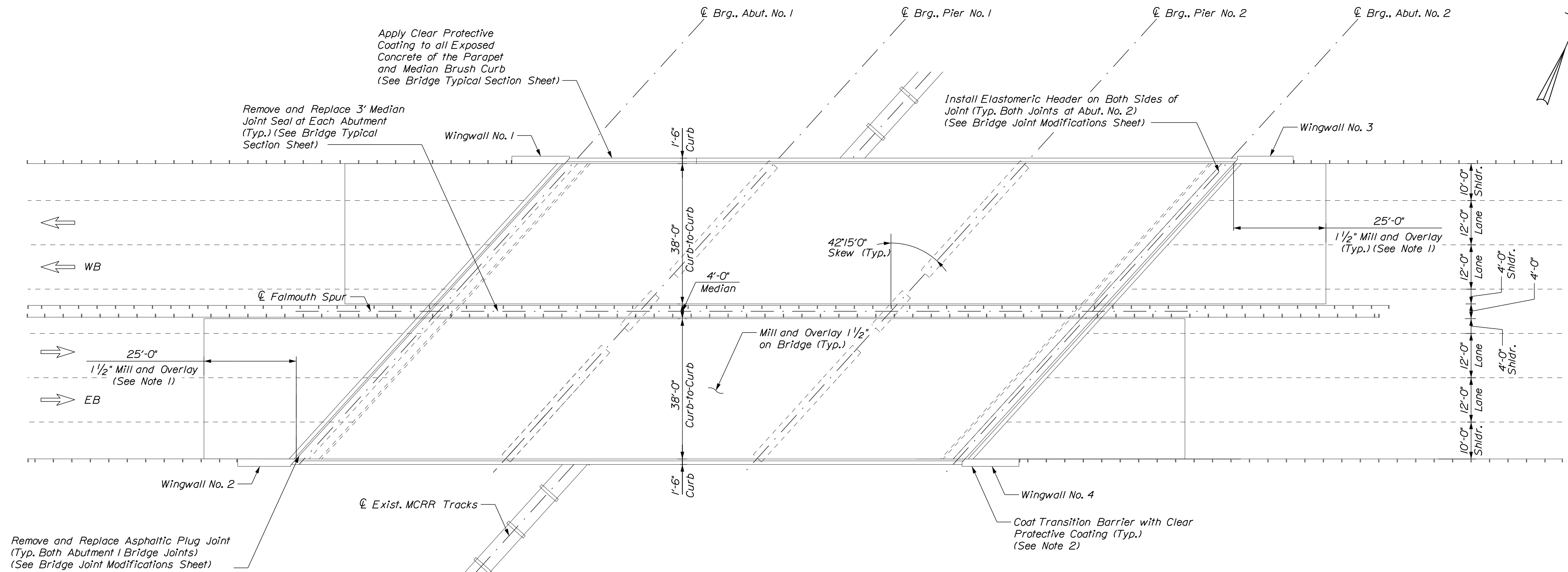
CONTRACT: 2024.07

SHEET NUMBER: 29

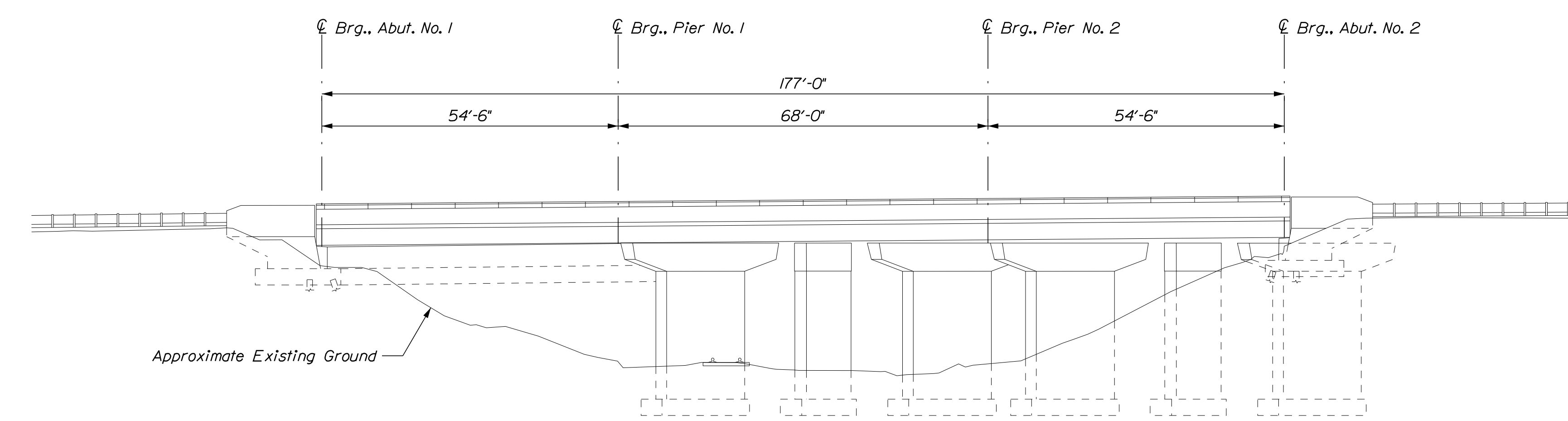
29 OF 38

Date: 3/26/2024

Filename: ...MSTA\031_MM_F0.40_plan.dgn



PLAN
Scale: 1/16" = 1'-0"




ELEVATION
Scale: 1/16" = 1'-0"

- NOTES**
1. Mill and pave 1 1/2" HMA. Depth of mill shall be based on string-line measurements to achieve a smooth transition between existing and approach pavement.
 2. Clear Protective Coating shall be paid for under Item 515.202 Clear Protective Coating for Concrete Surfaces.
 3. The Contractor shall complete all work from the topside of the bridge and the approaches. The Contractor shall not do any work or access the bridge from below.

Scale: 1/16" = 1'-0"

No.	Revision	By	Date

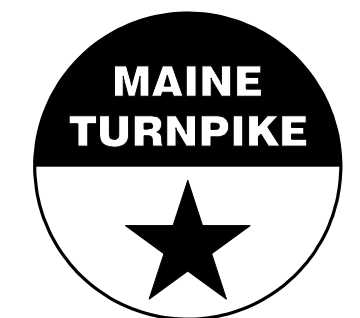
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

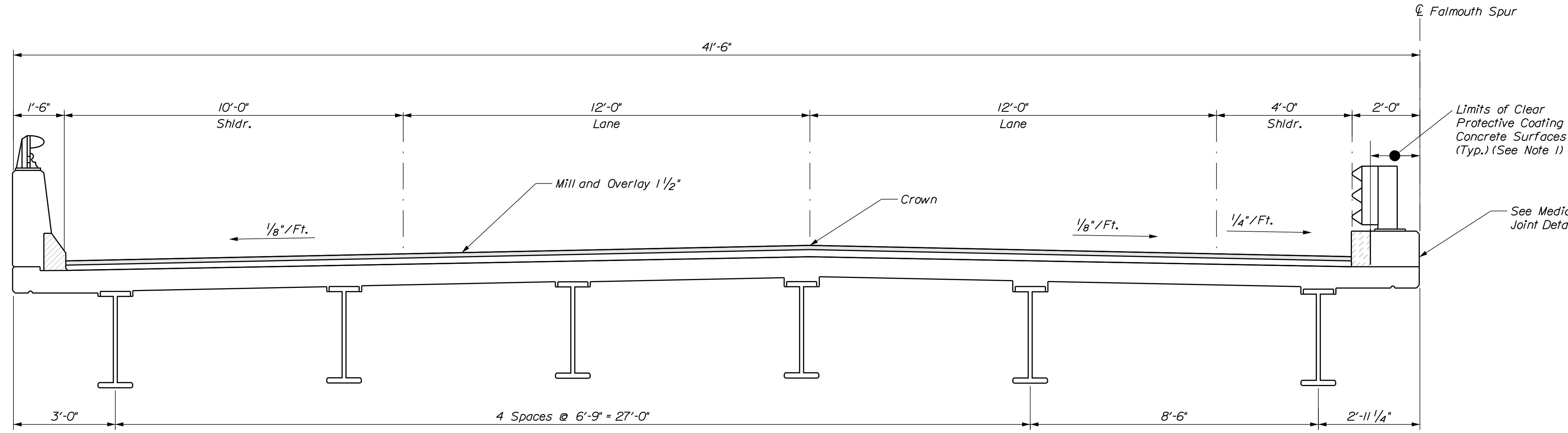
MTA PROJECT NO. 2024.07
MCR R OVERPASS AT MM FS0.50
AND MM FS0.51 IN FALMOUTH, ME
BRIDGE PLAN & ELEVATION

VHB: 55729.00
CONTRACT: 2024.07

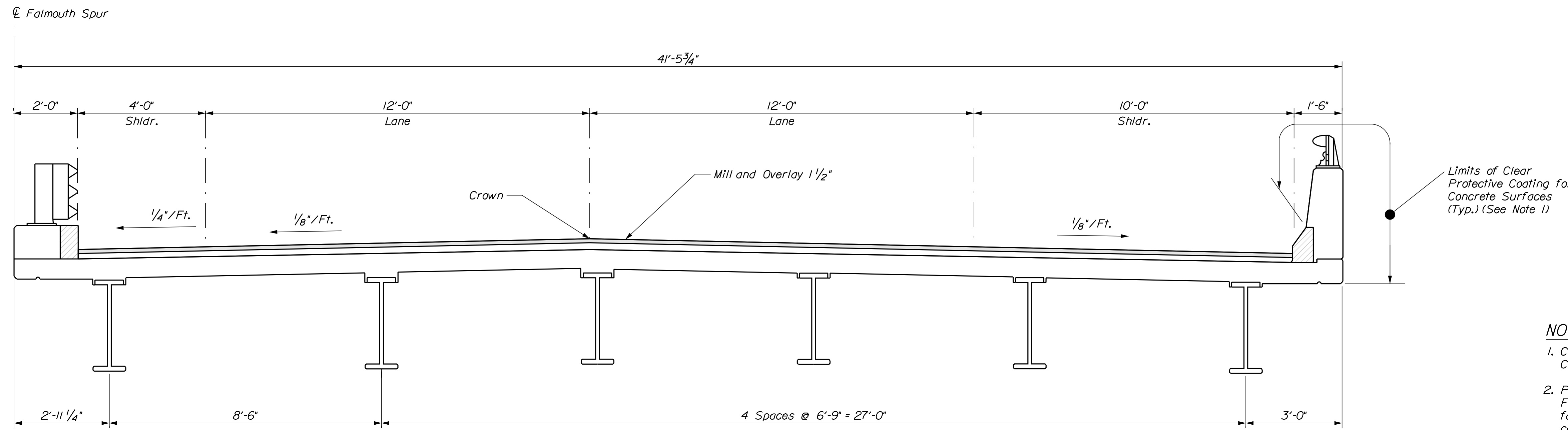
SHEET NUMBER: 31
31 OF 38

Date: 3/26/2024

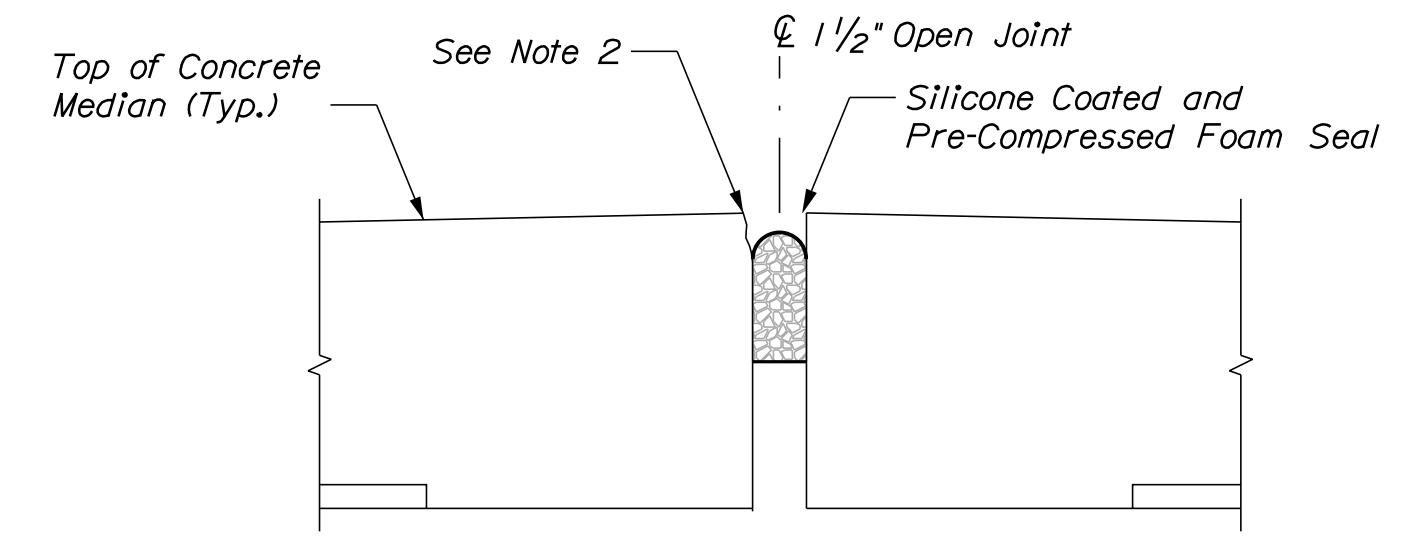
Filename: ...MSTA\032_MM_F0.40_Typical.dgn



SUPERSTRUCTURE TYPICAL SECTION - WESTBOUND
Scale: 1/2" = 1'-0"



SUPERSTRUCTURE TYPICAL SECTION - EASTBOUND
Scale: 1/2" = 1'-0"



MEDIAN JOINT DETAIL
Not to Scale

- NOTES**
1. Clear Protective Coating shall be paid under Item 515.202, Clear Protective Coating for Concrete Surfaces.
 2. Prior to installing the Silicone Coated and Pre-Compressed Foam Seal, the Contractor shall reestablish a neat vertical face to ensure a proper seal. The Contractor shall use a concrete repair material for vertical services selected from Specification Section 518.02, Repair Materials. All costs for this work shall be incidental to Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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THE GOLD STAR MEMORIAL HIGHWAY

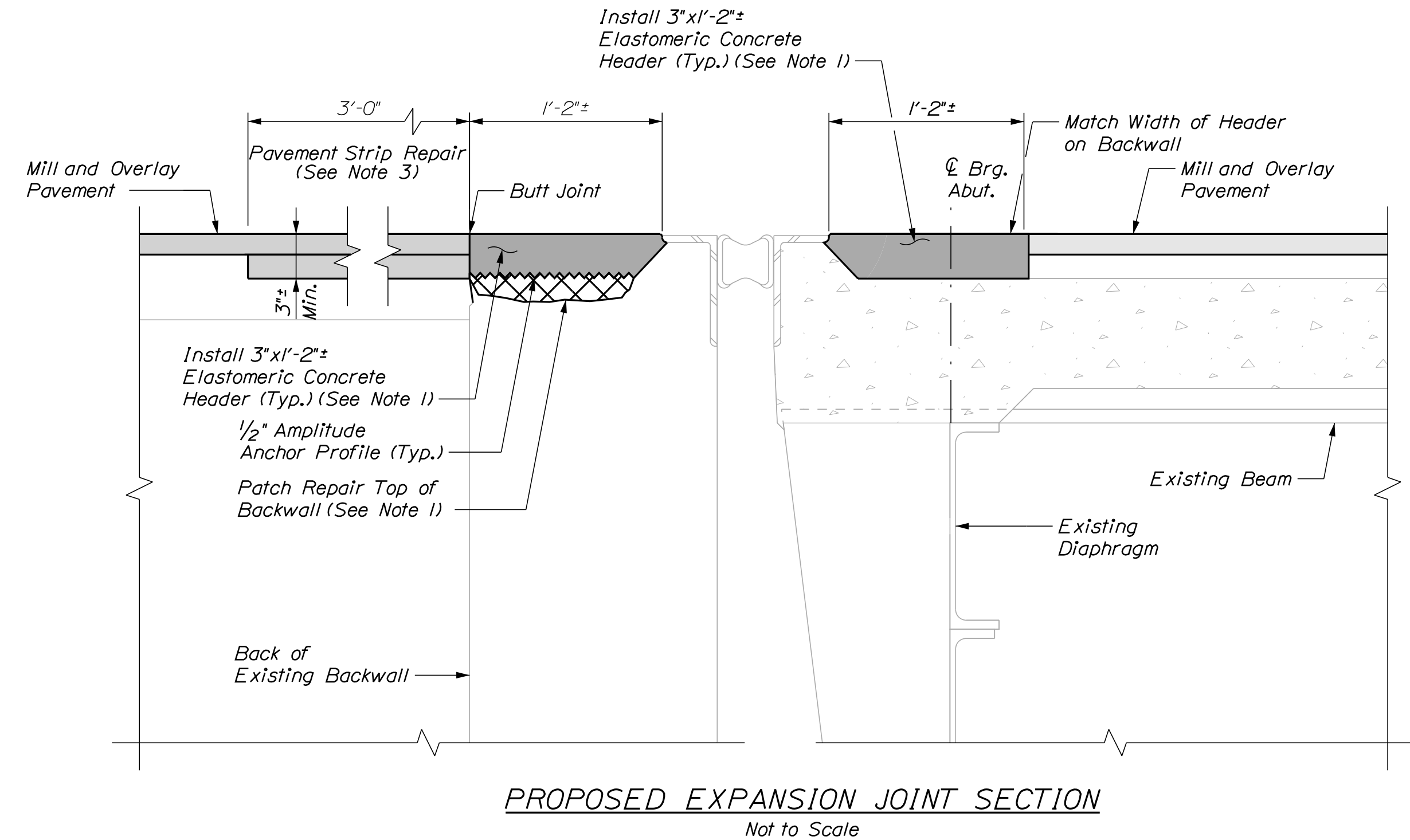
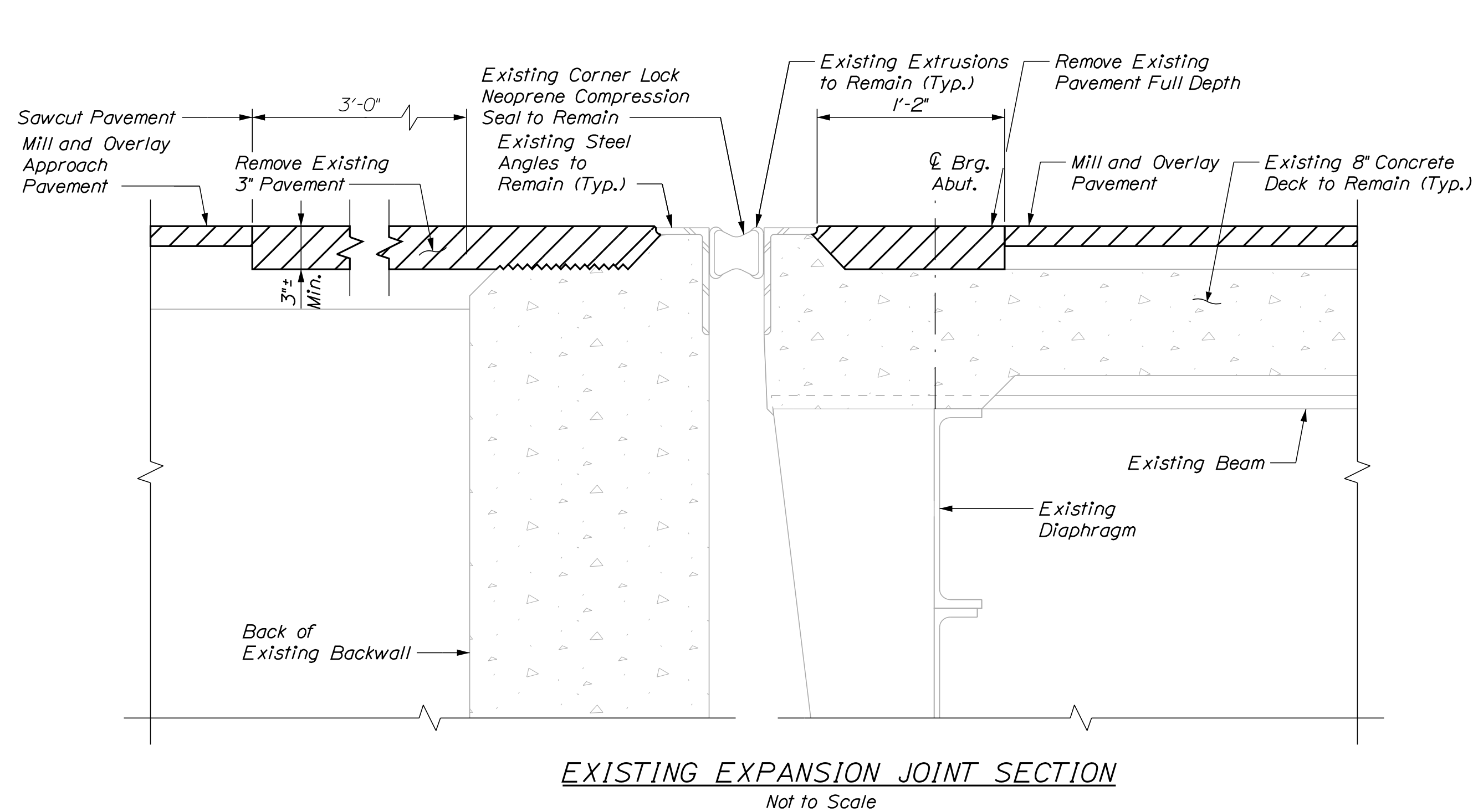
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
MCRR OVERPASS AT MM FS0.50
AND MM FS0.51 IN FALMOUTH, ME
BRIDGE TYPICAL SECTION

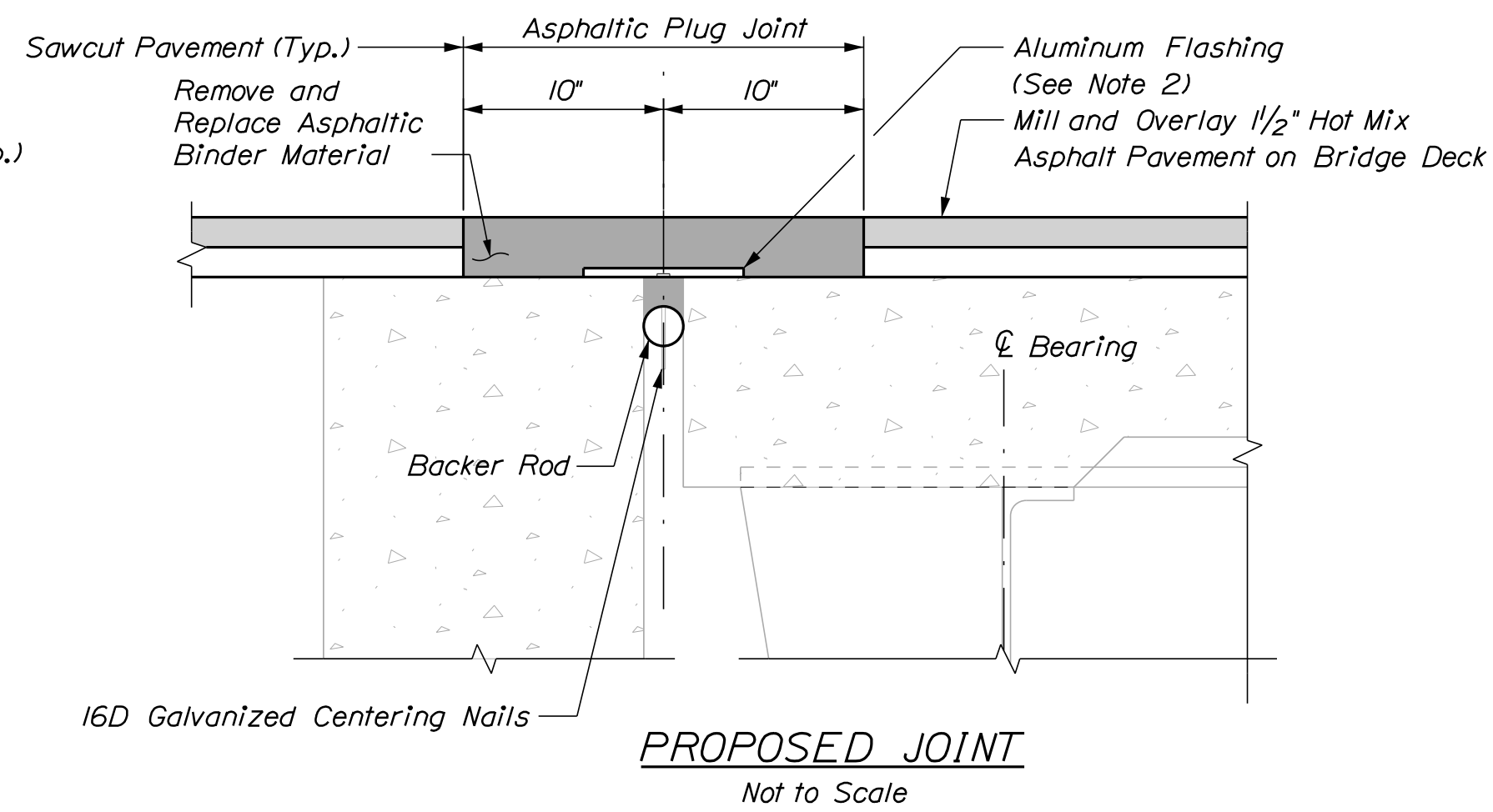
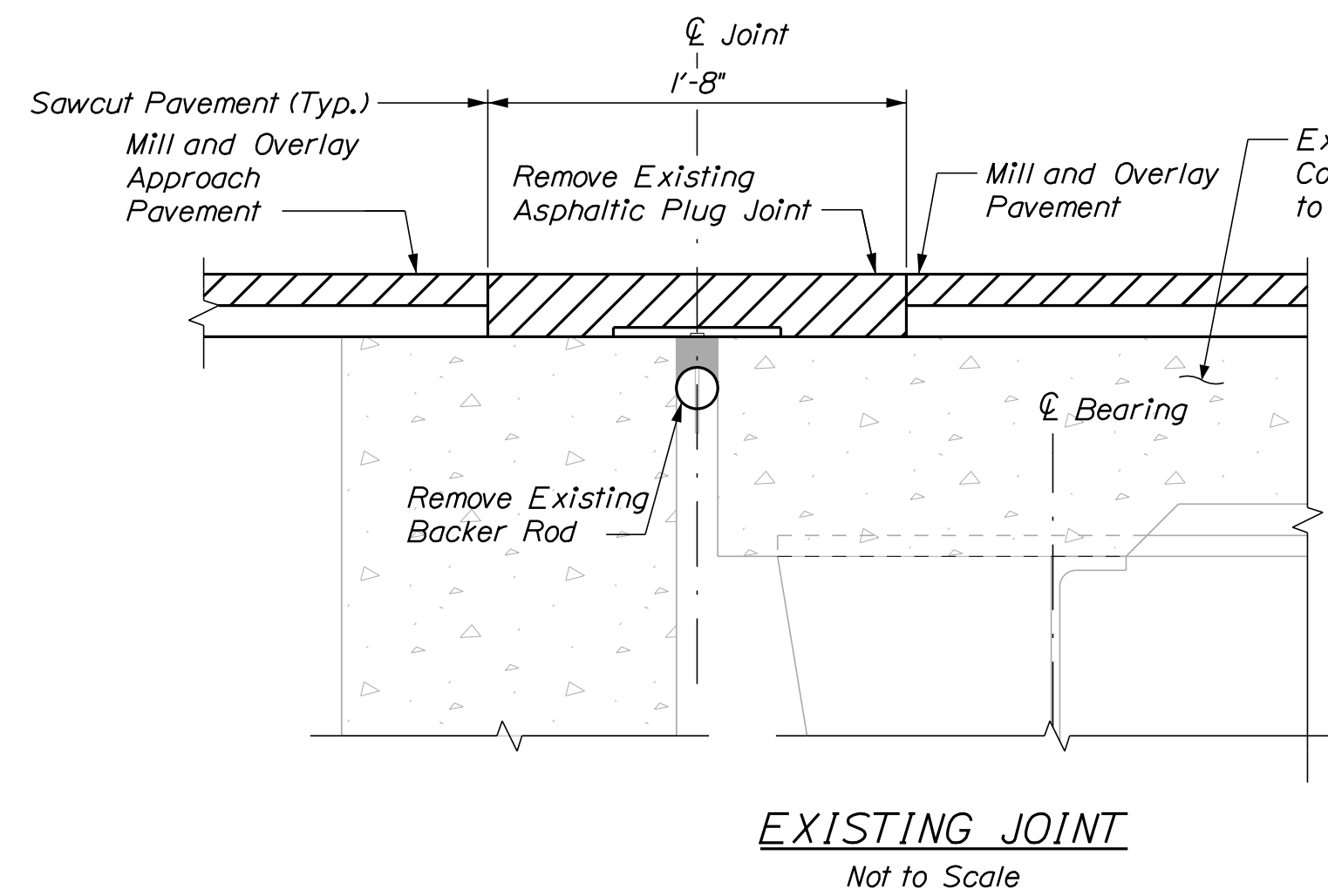
VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 32
32 OF 38

Date: 3/28/2024



**BRIDGE JOINT MODIFICATION
(ABUTMENT NO. 2)**
Not to Scale



**BRIDGE JOINT MODIFICATION
(ABUTMENT NO. 1)**
Not to Scale

NOTES

1. Elastomeric Concrete Header shall be paid under Item 518.864 Elastomeric Concrete Header Repair. Prior to placing the elastomeric concrete, the Contractor shall remove any areas of deteriorated concrete in accordance with Supplemental Specification Section 518 and as directed by the Resident. If repairs to the top of the backwall are needed, the Contractor shall repair with elastomeric concrete and repairs shall be paid under Item 518.864 Elastomeric Concrete Header Repair. If repair depth is greater than 3" below the header, the repairs may be done with AAA concrete at the direction of the Resident and paid under Item 518.80, Partial Depth Concrete Deck Repair.
2. Aluminum Flashing shall be incidental to Item 520.23 Asphaltic Plug Joint.
3. Pavement Strip Repair shall be paid under Item 403.208 Hot Mix Asphalt 12.5mm Nominal Maximum Size.
4. The Contractor shall repair the silicone sealant at the curbs and parapets at Abutment No. 1 after replacement of the asphaltic plug joint as directed by the Resident. The silicone sealant shall be a product from the MaineDOT Qualified Products List for Silicone and Polyurethane Joint Sealant. Repairs to the sealant shall be incidental to Item 520.23, Asphaltic Plug Joint.

Filename: ...033_MM_F0.40_joint_mod.dgn

Scale: Not to Scale			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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Suite 105B
South Portland, ME 04106
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FAX (207) 253-5596

**THE GOLD STAR
MEMORIAL HIGHWAY**

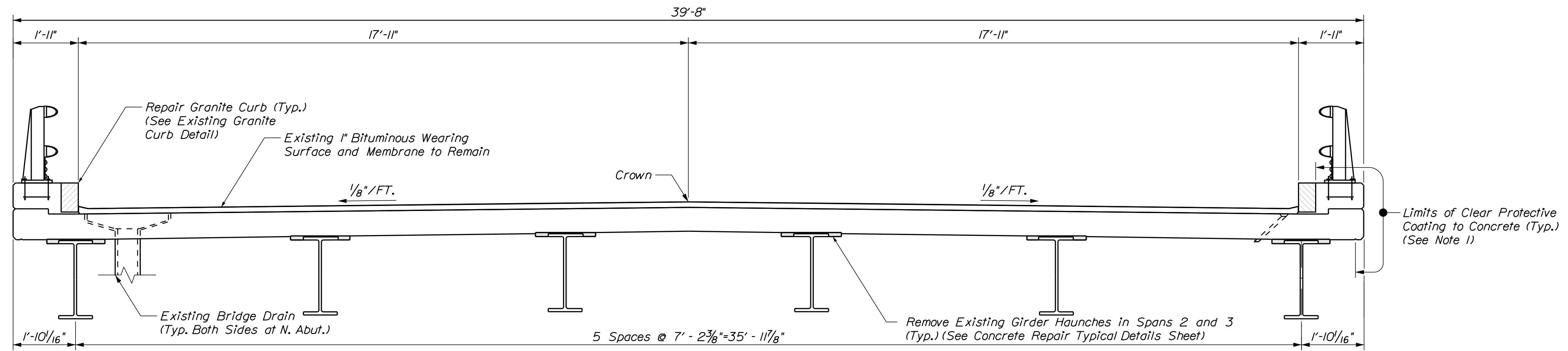
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
MCR OVERPASS AT MM FS0.50
AND MM FS0.51 IN FALMOUTH, ME
BRIDGE JOINT MODIFICATIONS

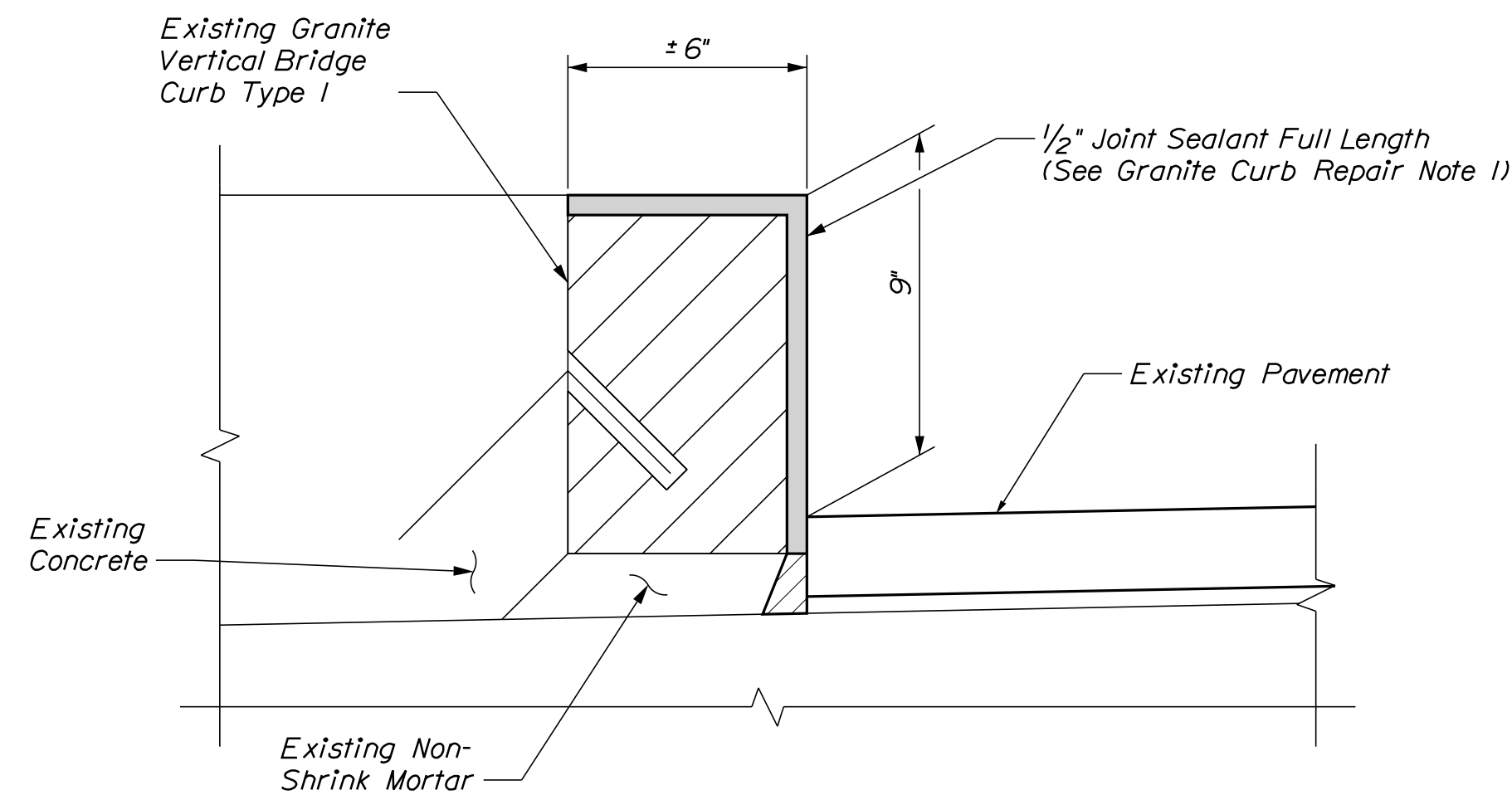
VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 33
33 OF 38

Date: 3/26/2024



SUPERSTRUCTURE TYPICAL SECTION
Scale: 1/2" = 1'-0"



EXISTING GRANITE CURB DETAIL
Scale: 3" = 1'-0"

GRANITE CURB REPAIR NOTES

- Joint sealant shall be a material from the MaineDOT approved products list as approved by the Resident. Joint sealant shall be incidental to item 518.391, Repairing Granite Curb Joint and Bedding Mortar.

NOTES

- Clear Protective Coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.

Filename: ...MSTA\035_MM_F0.60_Typical.dgn

Scale:			
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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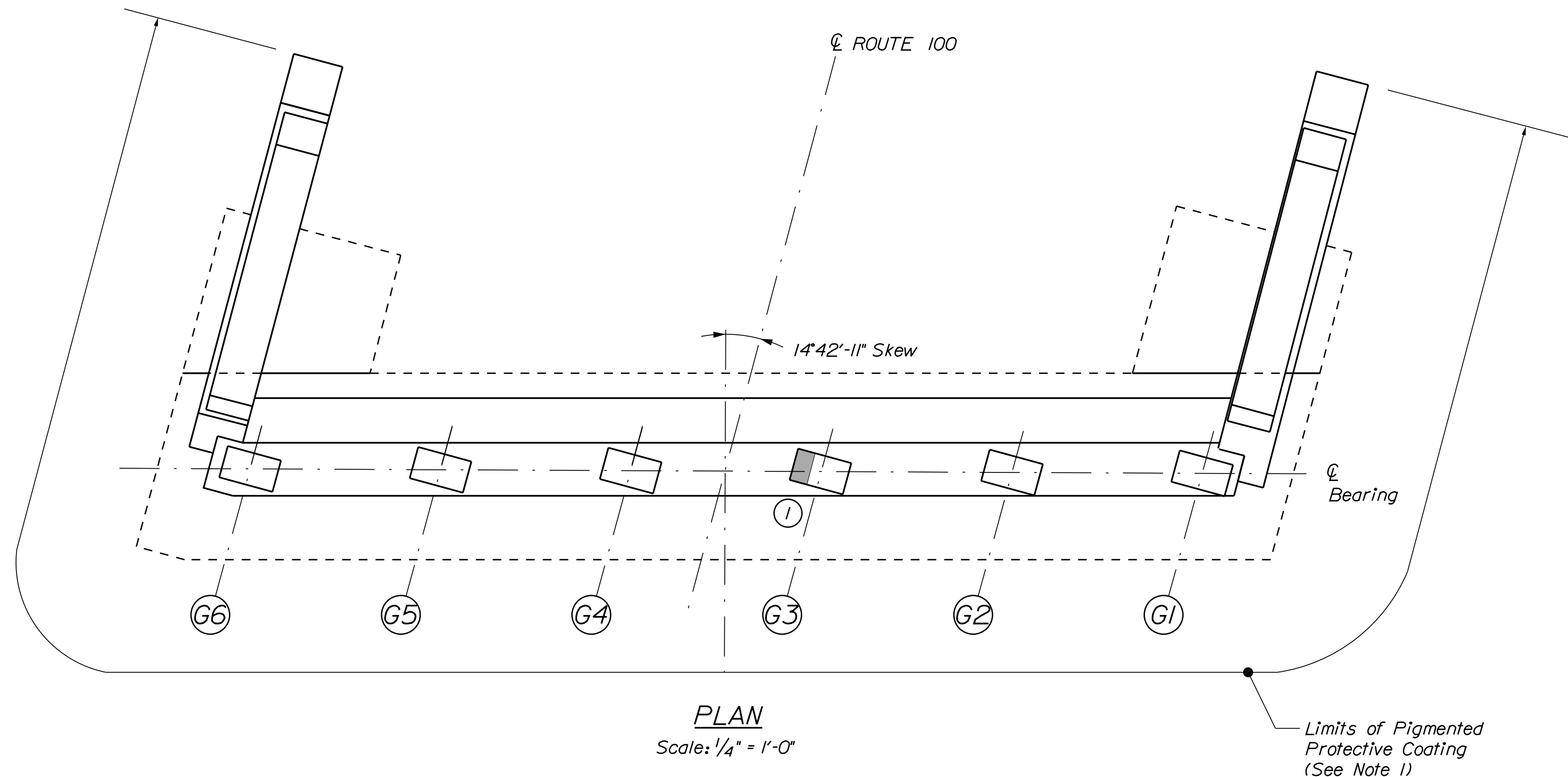
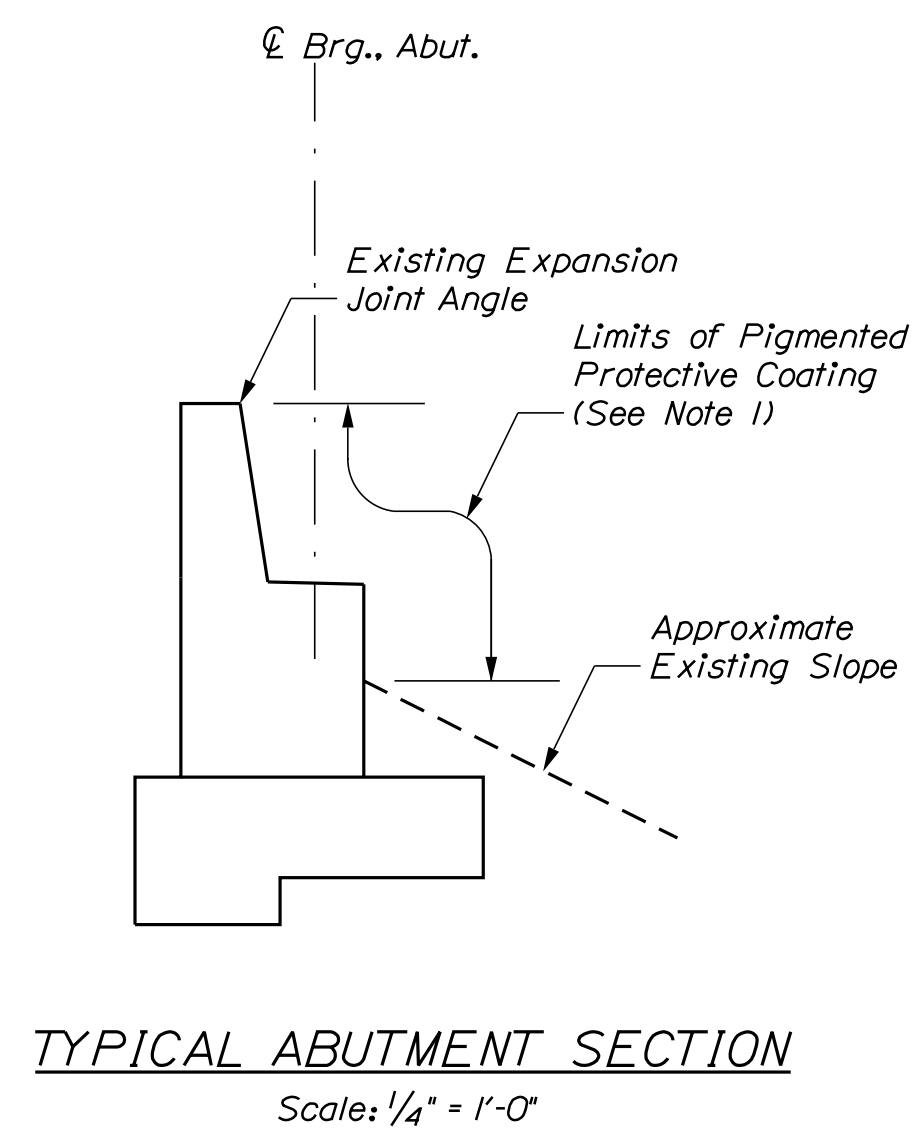
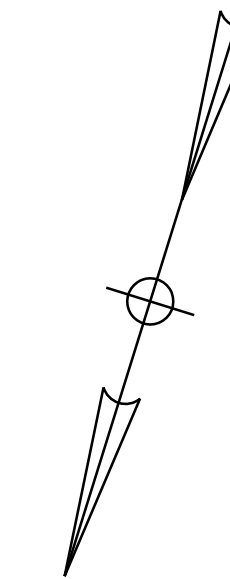
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
GRAY ROAD (ROUTE 26 & 100) UNDERPASS
AT MM FS0.70 IN FALMOUTH
BRIDGE TYPICAL SECTION

VHB: 55729.00 SHEET NUMBER: 35
CONTRACT: 2024.07 35 OF 38

Date: 3/26/2024



ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)

Surface Abutment Repairs	20 *
* Includes 6 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	7 **
** Includes 2 S.F. Additional Repair Quantity As A Contingency	

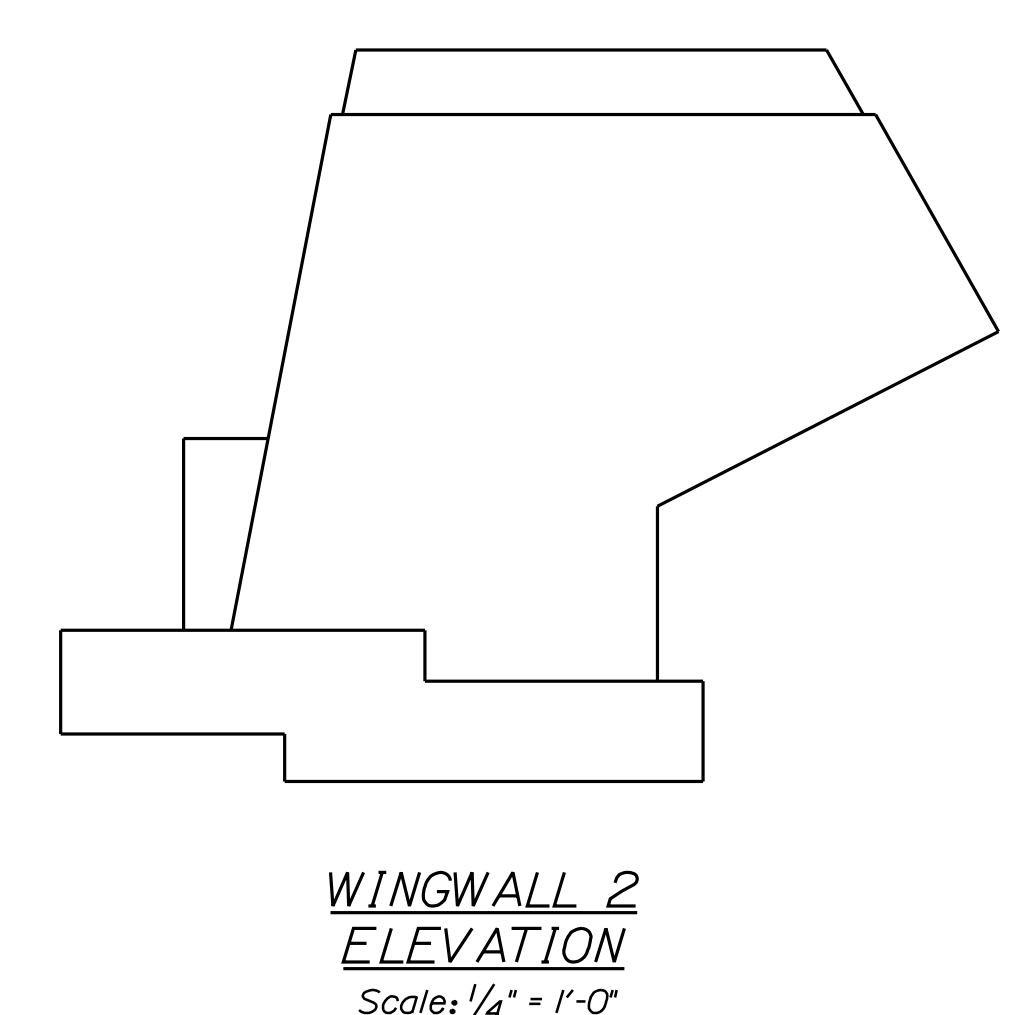
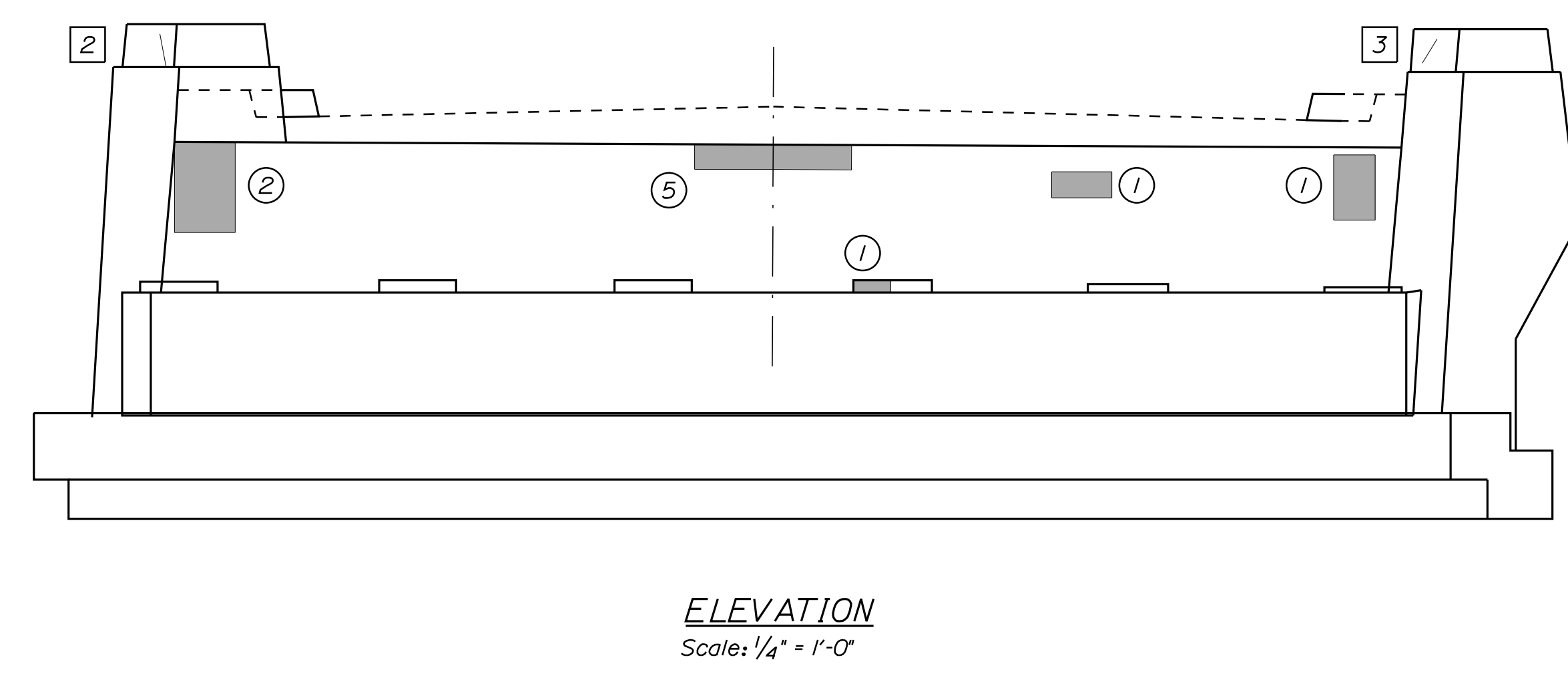
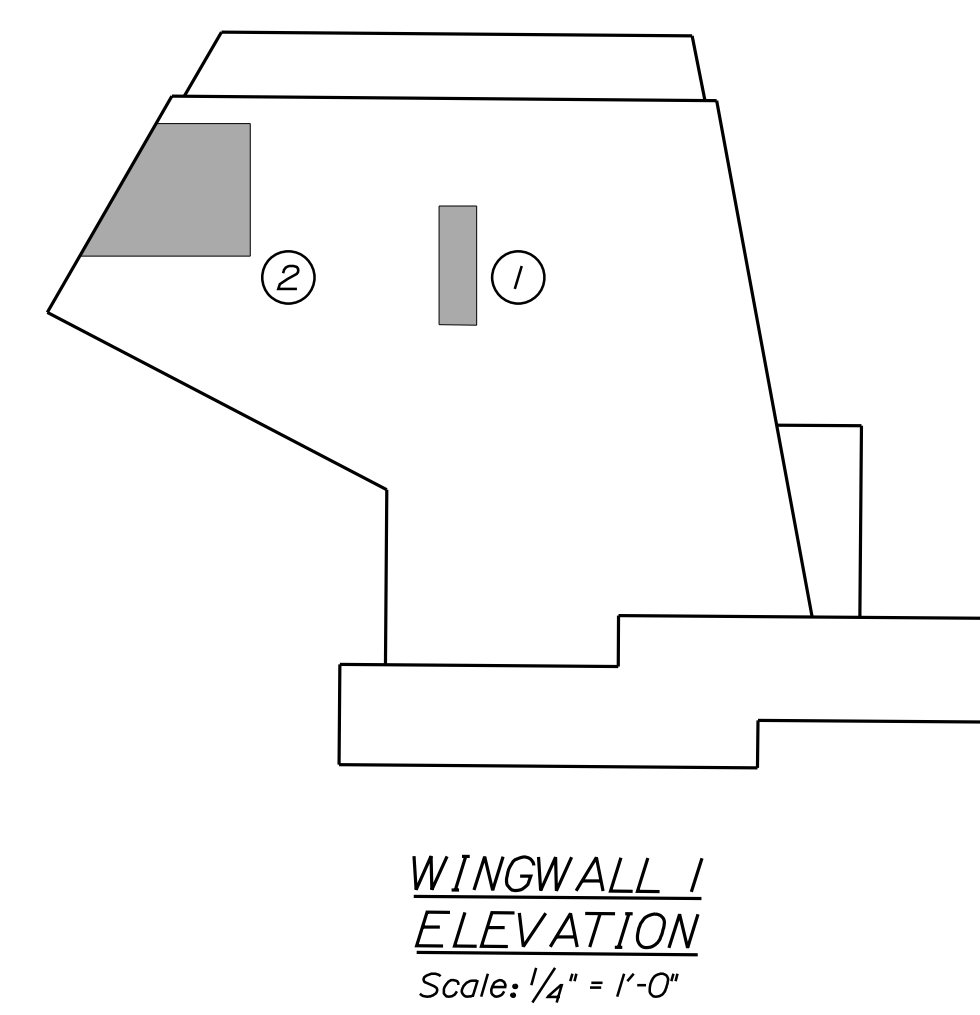
- KEY**
- Limit of Crack Repair
 - Limit of Surface Patch Repair
 - Linear Feet of Crack Repair
 - Square Footage of Repair

NOTE

1. Pigmented Protective Coating shall be paid for under Item 515.201, Pigmented Protective Coating for Concrete Surfaces.

SHEET NOTE

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.



Filename: ...MSTA\036_MM_F0.60_abut.1.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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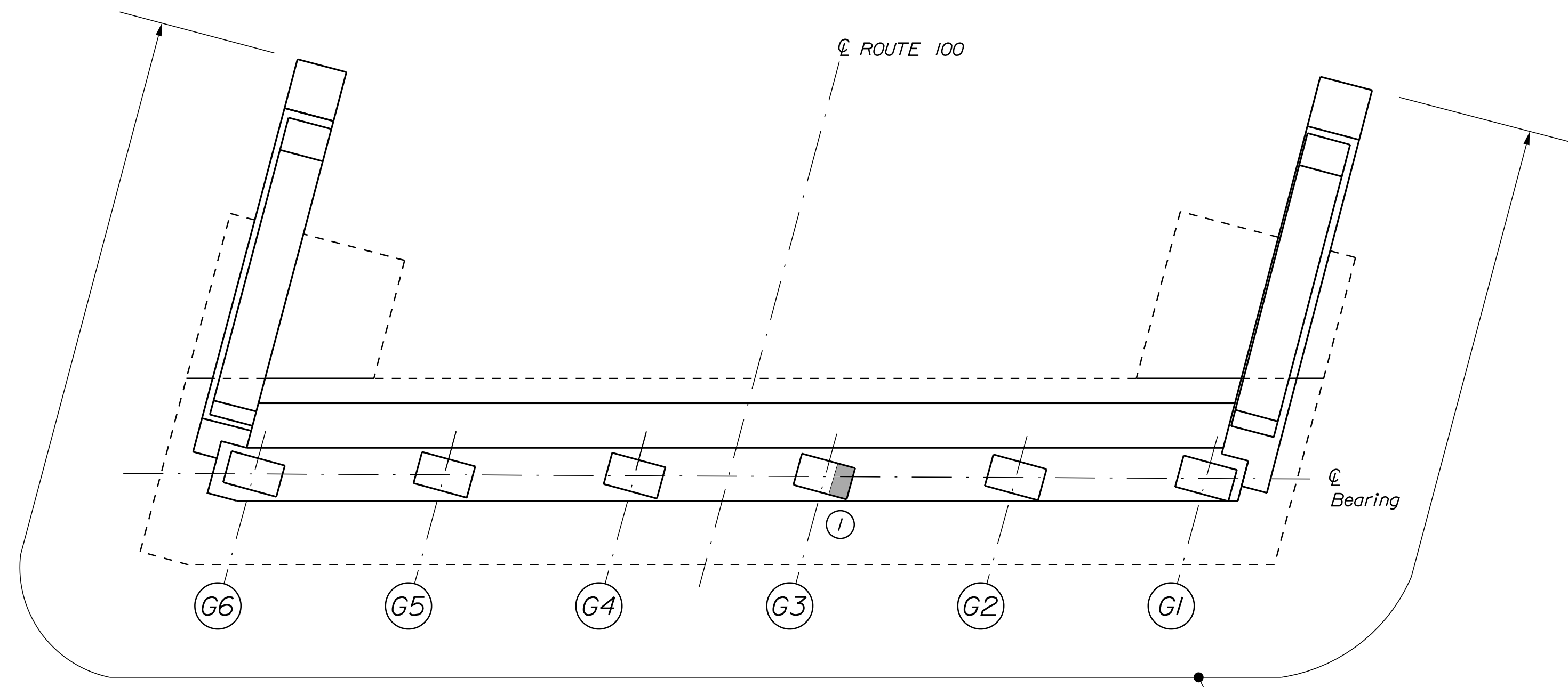
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
 GRAY ROAD (ROUTE 26 & 100) UNDERPASS
 AT MM FS0.70 IN FALMOUTH
 ABUTMENT NO. 1 REPAIRS

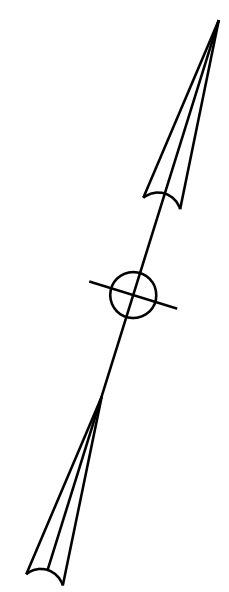
VHB: 55729.00 SHEET NUMBER: 36
 CONTRACT: 2024.07 36 OF 38

Date: 3/26/2024



PLAN
Scale: 1/4" = 1'-0"

Limits of Pigmented Protective Coating (See Note 1)



ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)

Surface Abutment Repairs * Includes 8 S.F. Additional Repair Quantity As A Contingency	20 *
Epoxy Injection Crack Repair ** Includes 2 L.F. Additional Repair Quantity As a Contingency	10 **

KEY

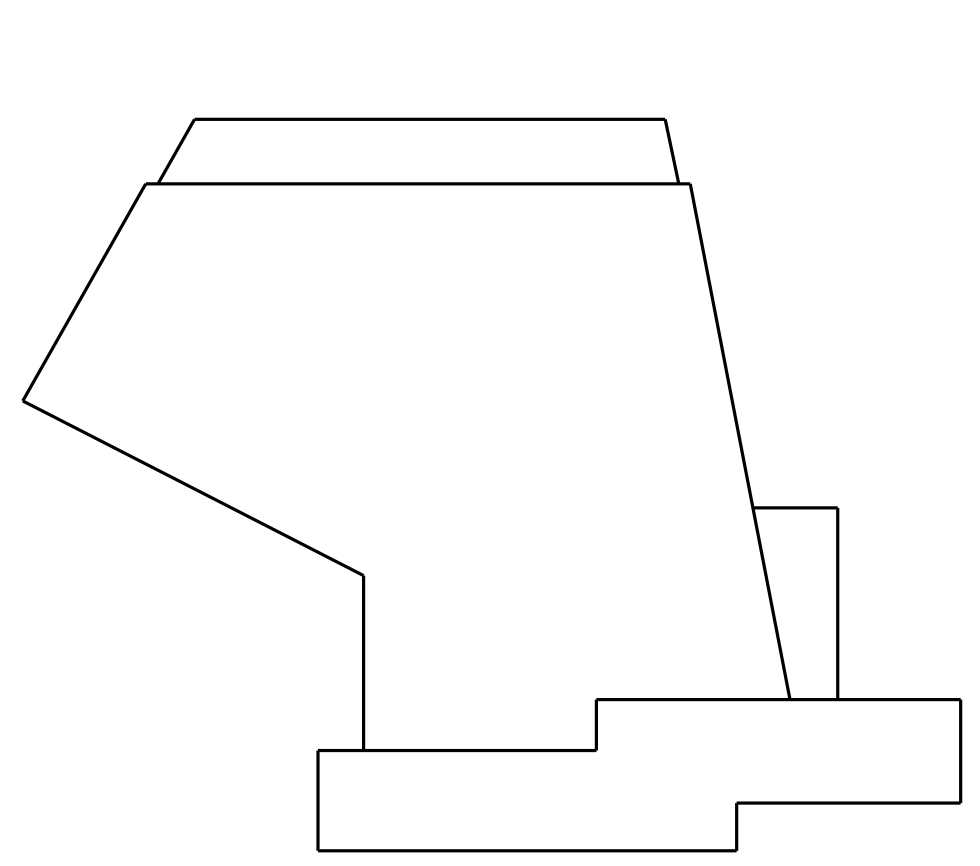
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

NOTE

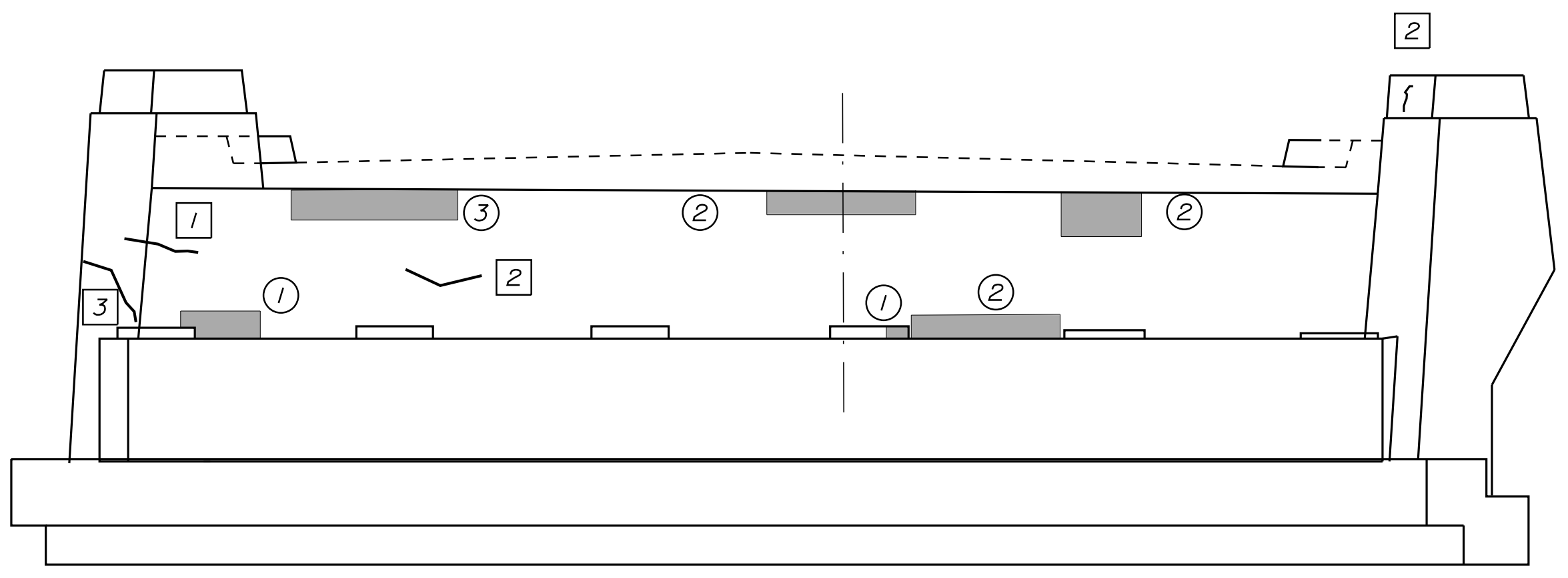
1. Pigmented Protective Coating shall be paid for under Item 515.201, Pigmented Protective Coating for Concrete Surfaces.

SHEET NOTE

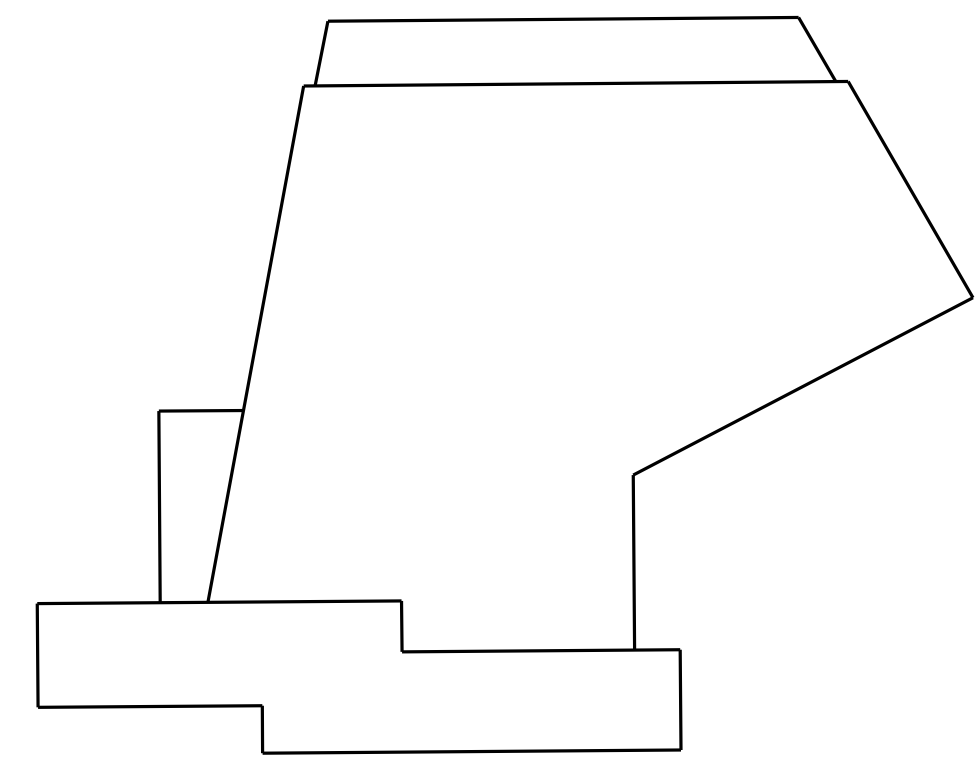
1. For Typical Abutment Section see Abutment No. 1 Repair Sheet.
2. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.



WINGWALL 4
ELEVATION
Scale: 1/4" = 1'-0"



ELEVATION
Scale: 1/4" = 1'-0"



WINGWALL 3
ELEVATION
Scale: 1/4" = 1'-0"

Filename: ...MSTA037_MM_F0.60_abut.2.dgn

Scale:			
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
By	Date	By	Date
Designed	MFS 3/26/24	Checked	MEB 3/26/24
Drawn	TSR 3/26/24	In Charge of	GME 3/26/24

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THE GOLD STAR MEMORIAL HIGHWAY

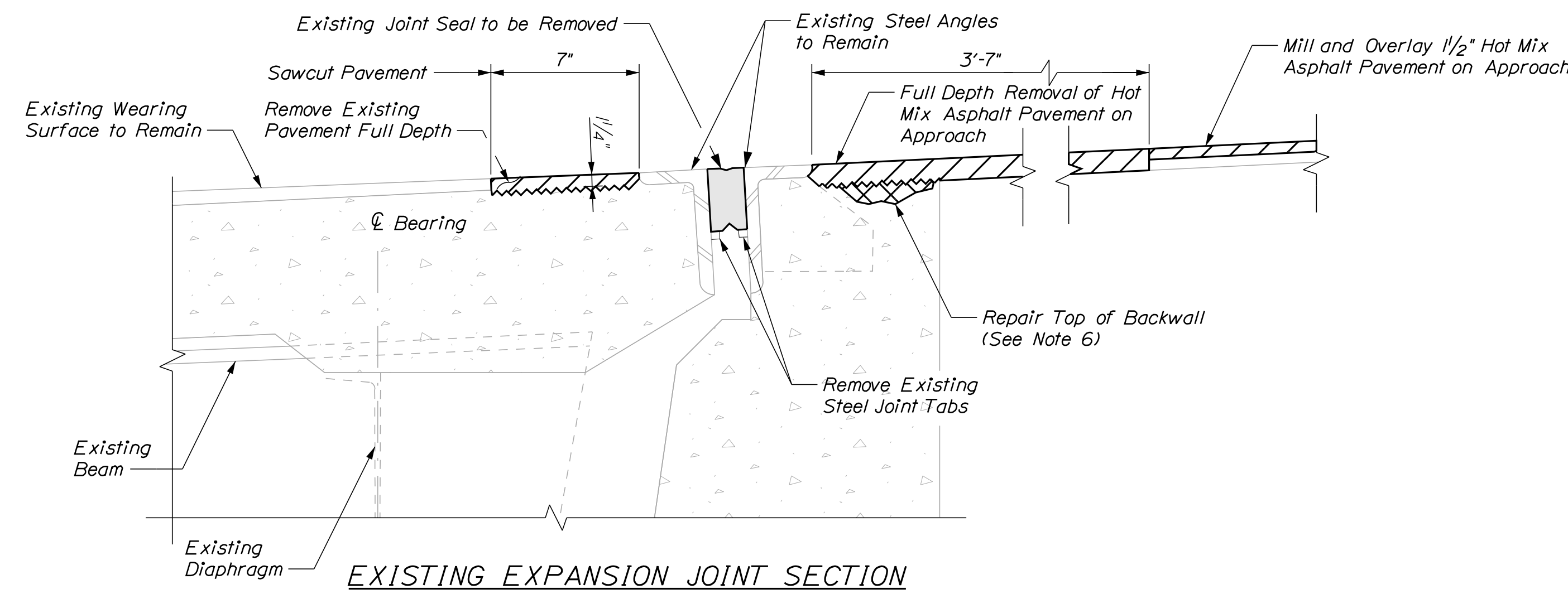
MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
GRAY ROAD (ROUTE 26 & 100) UNDERPASS
AT MM FS0.70 IN FALMOUTH
ABUTMENT NO. 2 REPAIRS

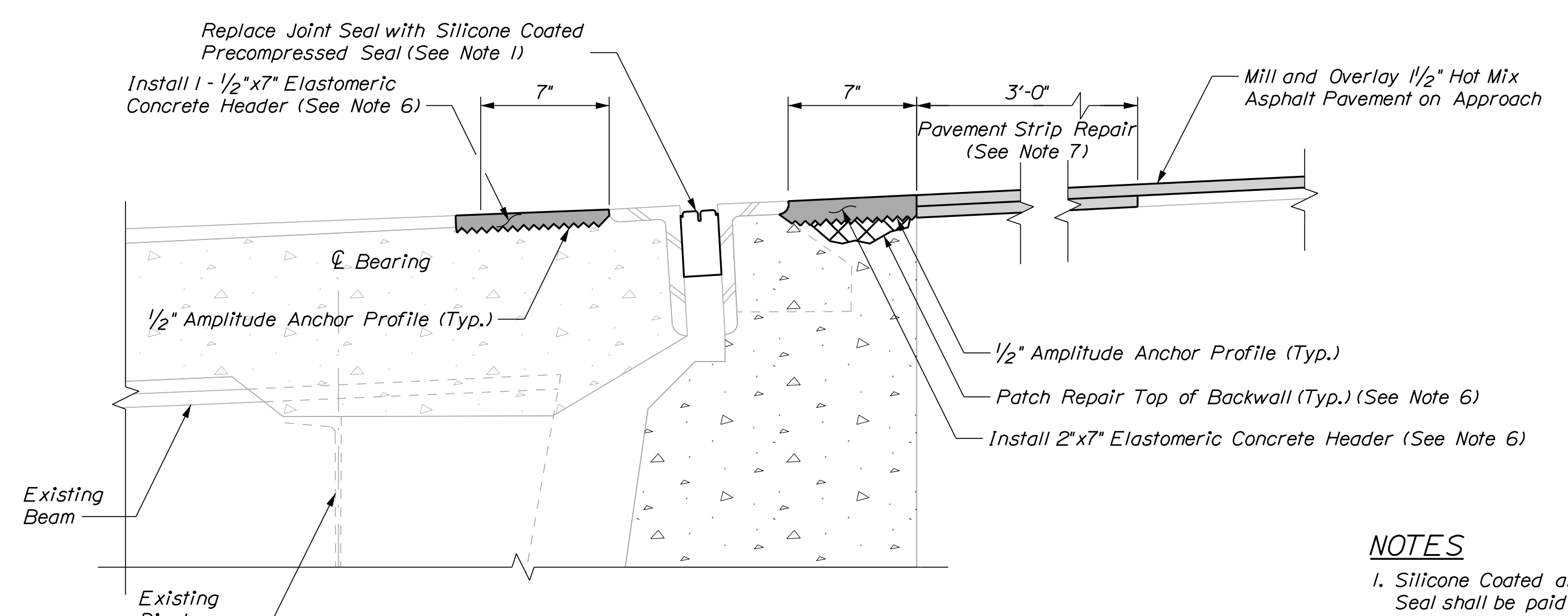
VHB: 55729.00	SHEET NUMBER: 37
CONTRACT: 2024.07	37 OF 38

Date: 3/27/2024

Filename: ...038_MM_F06.0_joint_mod.dgn

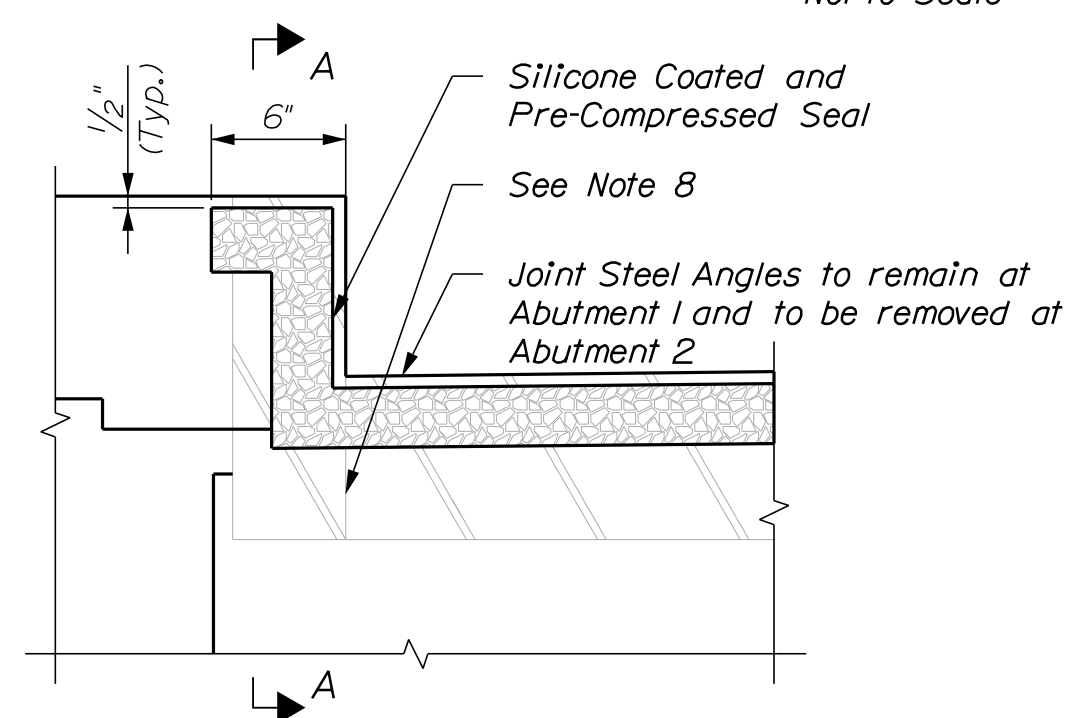


EXISTING EXPANSION JOINT SECTION

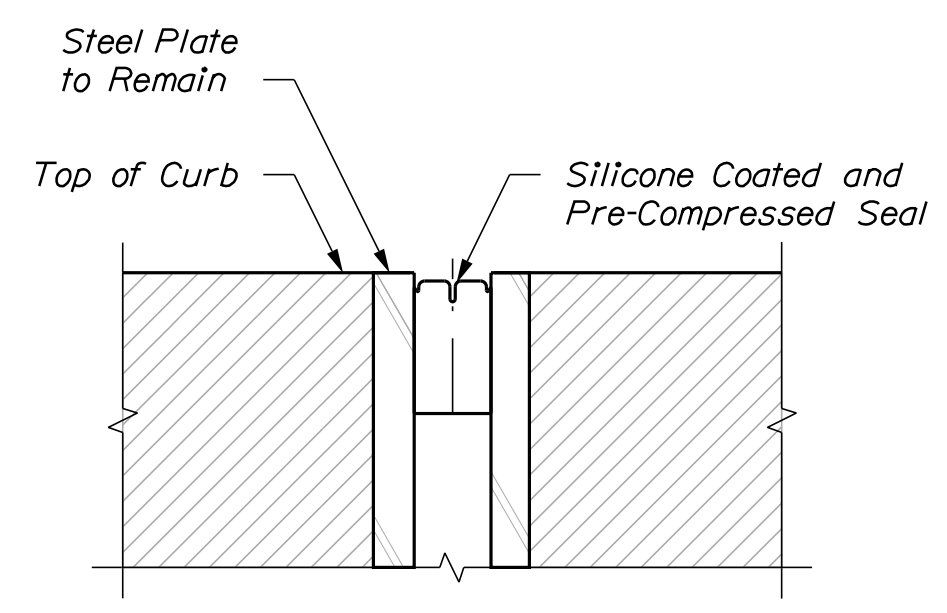


PROPOSED EXPANSION JOINT SECTION

**BRIDGE JOINT MODIFICATION
ABUTMENT NO. 1**
Not to Scale

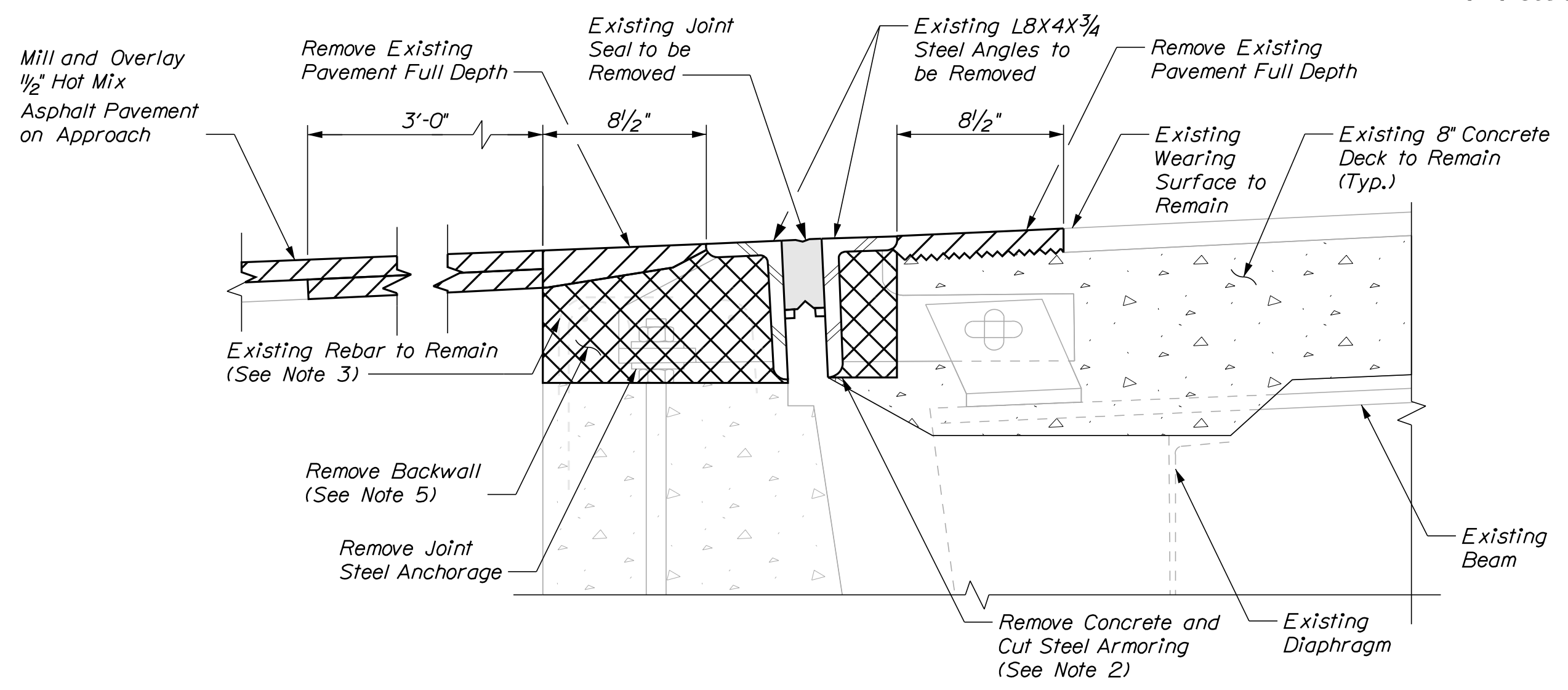


JOINT DETAIL AT CURB
(Median Curb Shown, Fasia Curb Similar)
Not to Scale

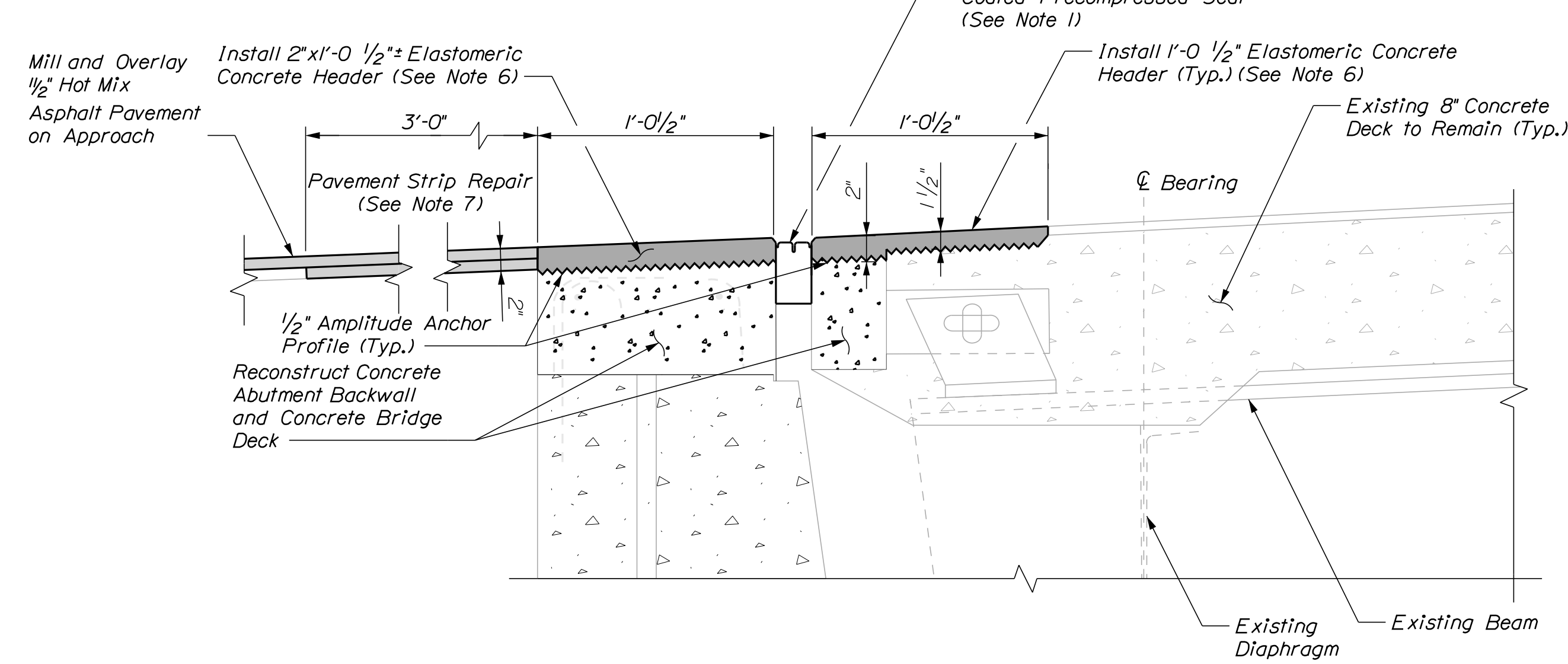


SECTION A-A
Not to Scale

CURB DETAIL
Not to Scale



EXISTING EXPANSION JOINT SECTION



PROPOSED EXPANSION JOINT SECTION


**BRIDGE JOINT MODIFICATION
ABUTMENT NO. 2**
Not to Scale

- NOTES**
1. Silicone Coated and Pre-Compressed Seal shall be paid under Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal at Abutment 1. Silicone Coated and Pre-Compressed Seal shall be included in Item 520.922, Bridge Joint Modification (Grey Road - Abutment 2.) at Abutment 2.
 2. Steel anchor plates shall be cut when removing the joint steel angles. Remaining section of the steel plates shall remain in place.
 3. Existing rebar in abutment backwall shall be cleaned and straightened prior to placing new concrete. Install new reinforcing steel, as required. See Supplemental Specification 518.
 4. Sawcut 1" deep along all limits of removal.
 5. Chip concrete as specified in Supplemental Specification 518. If the removal limits change during the demolition process, the Contractor shall notify the Resident. The Resident and Contractor shall agree on the revised pay limits prior to the Contractor continuing the removals.
 6. Elastomeric Concrete Header shall be paid under Item 518.864 Elastomeric Concrete Header Repair. Prior to placing the elastomeric concrete, the Contractor shall remove any areas of deteriorated concrete in accordance with Supplemental Specification Section 518 and as directed by the Resident. If repairs to the top of the backwall are needed, the Contractor shall repair with elastomeric concrete and repairs shall be paid under Item 518.864 Elastomeric Concrete Header Repair. If repair depth is greater than 3" below the header, the repairs may be done with AAA concrete in the direction of the Resident and paid under Item 518.80, Partial Depth Concrete Deck Repair.
 7. Pavement Strip Repair shall be paid under Item 403.208 Hot Mix Asphalt 12.5mm Nominal Maximum Size.
 8. At Abutment 2, cut the existing joint steel armor at the curb when removing the deck end and backwall concrete. The joint armor in the curb shall remain.

Scale: NOT TO SCALE

No.	Revision	By	Date

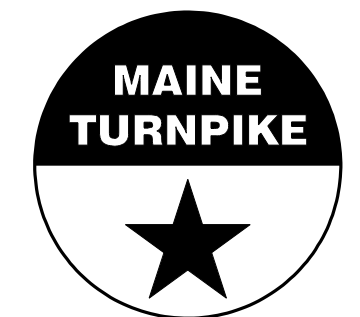
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MFS	3/26/24	Checked	MEB	3/26/24
Drawn	TSR	3/26/24	In Charge of	GME	3/26/24

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FAX (207) 253-5596



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE, CPESC

MTA PROJECT NO. 2024.07
GRAY ROAD (ROUTE 26 & 100) UNDERPASS
AT MM FS0.70 IN FALMOUTH
BRIDGE JOINT MODIFICATIONS

VHB: 55729.00
CONTRACT: 2024.07

SHEET NUMBER: 38
38 OF 38