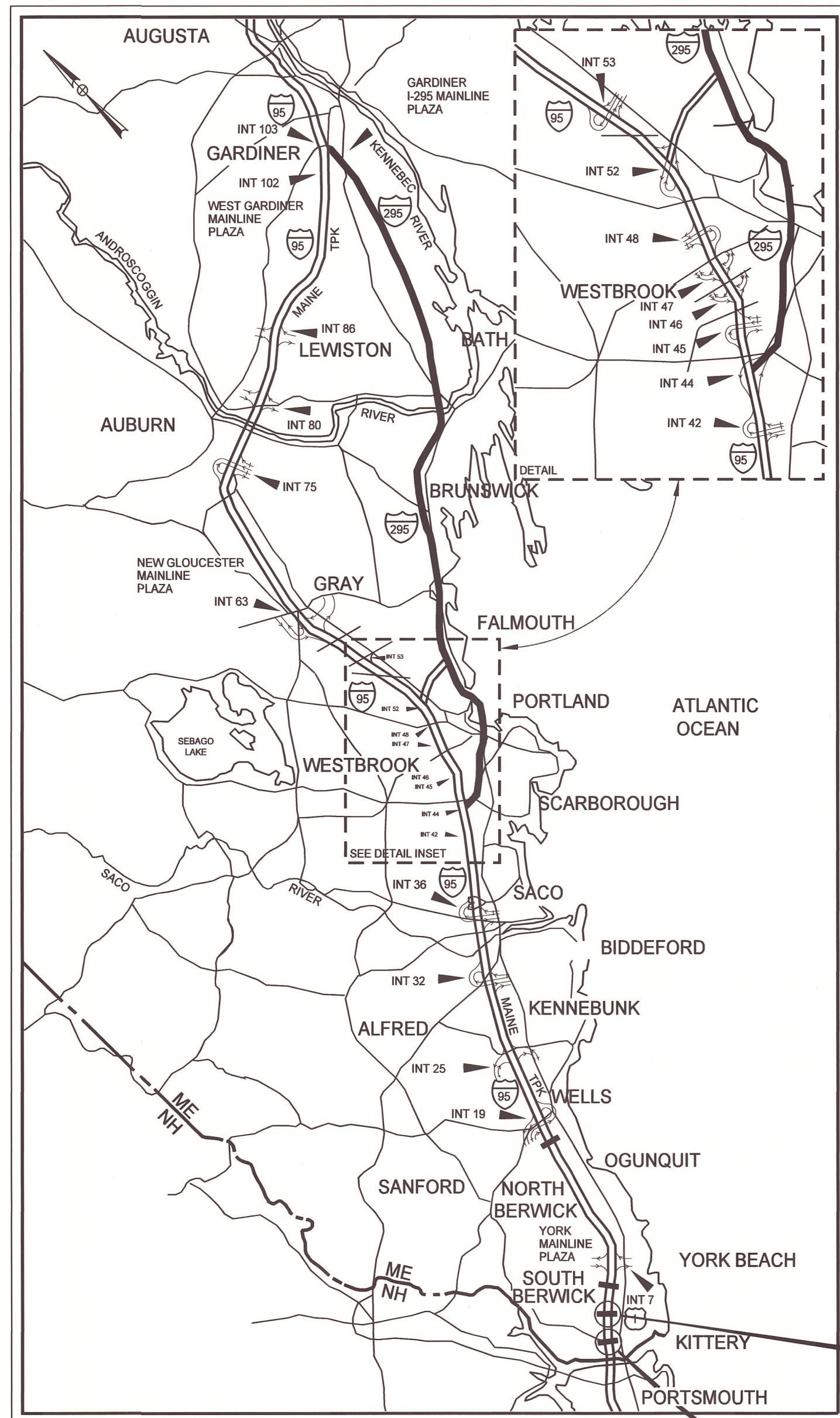


Date: 5/25/2022



LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 ROBERT D. STONE, VICE CHAIR
 MICHAEL J. CIANCHETTE, MEMBER
 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 2022.13

BRIDGE REPAIRS ROUTE 236 UNDERPASS (MM 1.25) ROUTE 1 ON-RAMP (RAMP H) UNDERPASS (MM 1.60)

INDEX OF SHEETS	
Sheet No.	Description
1	Title Sheet
2	Estimated Quantities
3	General Notes
4-6	Maintenance of Traffic Details (3 Sheets)
7-14	Route 236 Maintenance of Traffic Details (8 Sheets)
15	Ramp H Detour Plan (1 Sheet)
16	Concrete Repair Typical Details
17	Miscellaneous Details
<u>Structure 1 Route 236 Underpass Bridge</u>	
18	General Plan and Elevation
19	Bridge Typical Section
20	Abutment No. 1 Repairs
21	Abutment No. 2 Repairs
22	Pier No. 1 Repairs
23	Pier No. 2 Repairs
24	Deck Underside Repairs
25	Bridge Joint Modifications
<u>Structure 3 Ramp H Underpass Bridge</u>	
26	General Plan and Elevation
27	Typical Sections
28	Abutment No. 1 Repairs
29	Abutment No. 2 Repairs
30	Pier Repairs
31	Bridge Joint Modifications

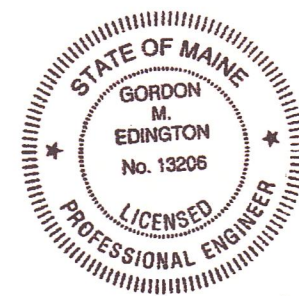
Route 1 On-Ramp (Ramp H) Underpass (MM 1.60)

Route 236 Underpass (MM 1.25)

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER
 05-25-22
 DATE

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING & BUILDING MAINTENANCE
 5/25/22
 DATE



Gordon Edington
 Gordon M. Edington, P.E.
 Consultant Project Manager
 5/25/2022
 DATE

Contract 2022.13

Filename: ... \001_title.dgn


Date: 5/31/2022

ESTIMATED QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	Route 236	Route 1 On-Ramp (Ramp H)	Quantity Total
202.121	Removing Existing Girder Haunches	LF	6,360	0	6,360
202.122	Removing Existing Structural Concrete	SF	50	0	50
202.202	Removing Pavement Surface	SY	3,350	1,350	4,700
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Surface)	TON	340	130	470
409.15	Bituminous Tack Coat RS-1 or RS1h - Applied	GAL	133	60	193
502.702	Replace Bridge Drain (Type A)	EA	10	0	10
506.14	Field Painting of Existing Structural Steel (Ramp H)	LS	0	1	1
508.14	High Performance Waterproofing Membrane (Rt 236) (2,360 SY)*	LS	1	0	1
508.14	High Performance Waterproofing Membrane (Ramp H) (675 SY)*	LS	0	1	1
515.201	Pigmented Protective Coating for Concrete Surfaces	SY	1,400	130	1,530
515.202	Clear Protective Coating for Concrete Surfaces	SY	670	240	910
518.10	Abutment Repairs	SF	185	10	195
518.20	Pier Repairs	SF	5	0	5
518.391	Repairing Granite Curb Joint and Bedding Mortar	LF	990	460	1,450
518.4	Epoxy Injection Crack Repair	LF	45	0	45
518.75	Fascia and Overhang Repairs	SF	0	10	10
518.80	Partial Depth Concrete Deck Repairs	SF	640	305	945
518.81	Full Depth Concrete Deck Repairs	SF	20	10	30
518.82	Median Concrete Deck Repairs	SF	170	0	170
518.864	Elastomeric Concrete Header Repair	CF	45	18	63
518.92	Slope Protection Repairs	LF	20	80	100
520.23	Asphaltic Plug Joint (Route 236)	LF	100	0	100
520.234	Expansion Device - Silicone Coated and Pre-Compressed Seal	LF	245	0	245
520.50	Remove and Replace Gland Seal (RT 236)	EA	1	0	1
523.1201	Reset Steel Bearings	EA	2	0	2
524.7212	Jacking Existing Superstructure (Route 236)	LS	1	0	1
526.301	Temporary Concrete Barrier, Type 1	LF	1,075		1,075
527.341	Work Zone Crash Cushion - TL-3	U	2		2
527.343	Resetting Existing Work Zone Crash Cushion	U	2		2
609.11	Vertical Curb Type 1	LF	35	0	35
626.15	Electrical Service Box	EA	1	0	1
627.712	White or Yellow Pavement Marking Line	LF	4,500	1,100	5,600
627.73	Temporary 6" Pavement Marking Tape	LF	5,250	0	5,250
627.731	Temporary 6" Black Pavement Marking Tape	LF	3,250	0	3,250
627.77	Removing Existing Pavement Markings	SF	225	0	225
629.05	Hand Labor, Straight Time	HR	60		60
631.10	Air Compressor (including operator)	HR	60		60
631.11	Air Tool (including operator)	HR	60		60
631.12	All Purpose Excavator (including operator)	HR	60		60
631.171	Truck - small (including operator)	HR	60		60
631.36	Foreman	HR	60		60
634.1612	Removal of Bridge & Highway Lighting Including Wire	LS	0	1	1
652.3	Flashing Arrow	EA	6		6
652.312	Type III Barricade	EA	6		6
652.33	Drum	EA	325		325
652.34	Cone	EA	100		100
652.35	Construction Signs	SF	1,953		1,953
652.361	Maintenance of Traffic Control Devices	LS	1		1
652.38	Flaggers	HR	425		425
652.41	Portable Changeable Message Sign	EA	4		4
652.45	Truck Mounted Attenuator	CD	160		160
652.451	Automated Trailer Mounted Speed Limit Sign	CD	115		115
652.47	Sequential Flashing Warning Lights	EA	90		90
656.75	Temporary Soil Erosion and Water Pollution Control	LS	1		1
659.10	Mobilization	LS	1		1

* Quantities are Estimated Only

Filename: ... \002_qty.dgn

Scale: AS NOTED			
No.	Revision	By	Date
1			

Designed by:					
					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

<p>MTA PROJECT NO. 2022.13</p> <p>ESTIMATED QUANTITIES</p>	<p>SHEET NUMBER: 2</p> <p>CONTRACT: 2022.13</p> <p style="text-align: right;">2 OF 31</p>
--	---

SPECIFICATIONS

Design: AASHTO LRFD Bridge Design Specifications, 2018.

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 $f_y = 60,000 \text{ psi}$

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

TRAFFIC AND DESIGN LOADING DATA

ROUTE 236 UNDERPASS BRIDGE

DESIGN LIVE LOAD (for existing components) HS 20
AADT 20,170
Design Speed (MPH) (for existing) 40
Functional Class Other Principal Arterial

ROUTE 10N-RAMP (RAMP H) UNDERPASS BRIDGE

Design Live Load (for existing components) HS 20-44
AADT 4,440
Design Speed (MPH) (for existing) 35
Functional Class Interstate

GENERAL CONSTRUCTION NOTES

1. All details shall be in conformance with Maine Department of 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.
2. All work must be completed within the Right of Way shown in these Plans.
3. The Contractor shall submit proposed staging area(s) to the Resident for approval prior to starting work.
4. 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.
5. 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.
6. Chamfer all exposed new concrete edges $\frac{3}{4}$ " unless otherwise noted.
7. For all structures pigmented protective coating for concrete surfaces shall be applied to the following areas:
- All exposed concrete surfaces of the piers at the Route 236 Underpass.
- Exposed concrete surfaces of the abutments as shown in these plans.
8. For all structures clear protective coating for concrete surfaces shall be applied to the following areas:
- All exposed bridge curbs, parapet and transition barriers.
- All exposed median concrete.
- All overhang and fascia concrete as shown in these plans.
9. For all structures the bridge seat shall be cleaned before applying pigmented protective coating. Cleaning the bridge seat shall be incidental to Item 515.201, Pigmented Protective Coating for Concrete Surfaces.
10. The Contractor shall place approach pavement at all locations to achieve a smooth transition between existing and proposed pavement.
11. 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. All proposed striping shall match the location, type and color of the existing striping, unless otherwise directed by the Resident.

EROSION CONTROL NOTES

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

UTILITIES NOTES

1. Existing utilities on these plans were compiled from existing plans and various other sources. Locations are not guaranteed to be accurate nor is it guaranteed that all utilities are shown. No separate or additional compensation will be allowed to the Contractor due to any variance between the data shown on the plans and the actual field conditions encountered. 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.
2. The Maine Turnpike Authority is a non-member utility operator and is not registered with the Dig Safe system. 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 an electronic copy of all Dig Safe tickets within 24 hours of their release for project notifications and 3rd party utility locator coordination.
3. The anticipated utilities involved in this contract are:
Central Maine Power Company
Charter Communications, Inc.
Consolidated Communications
4. Contractor shall protect all new and existing utilities from damage during the construction as approved by the utility owners.

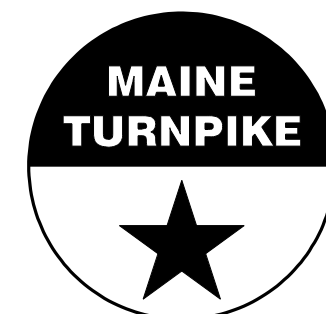
Date: 5/31/2022

Scale: AS NOTED

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. 2022.13

GENERAL NOTES

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

VHB: 55345.00

SHEET NUMBER: 3

CONTRACT: 2022.13

3 OF 31

Filename: ... \003_notes.dgn

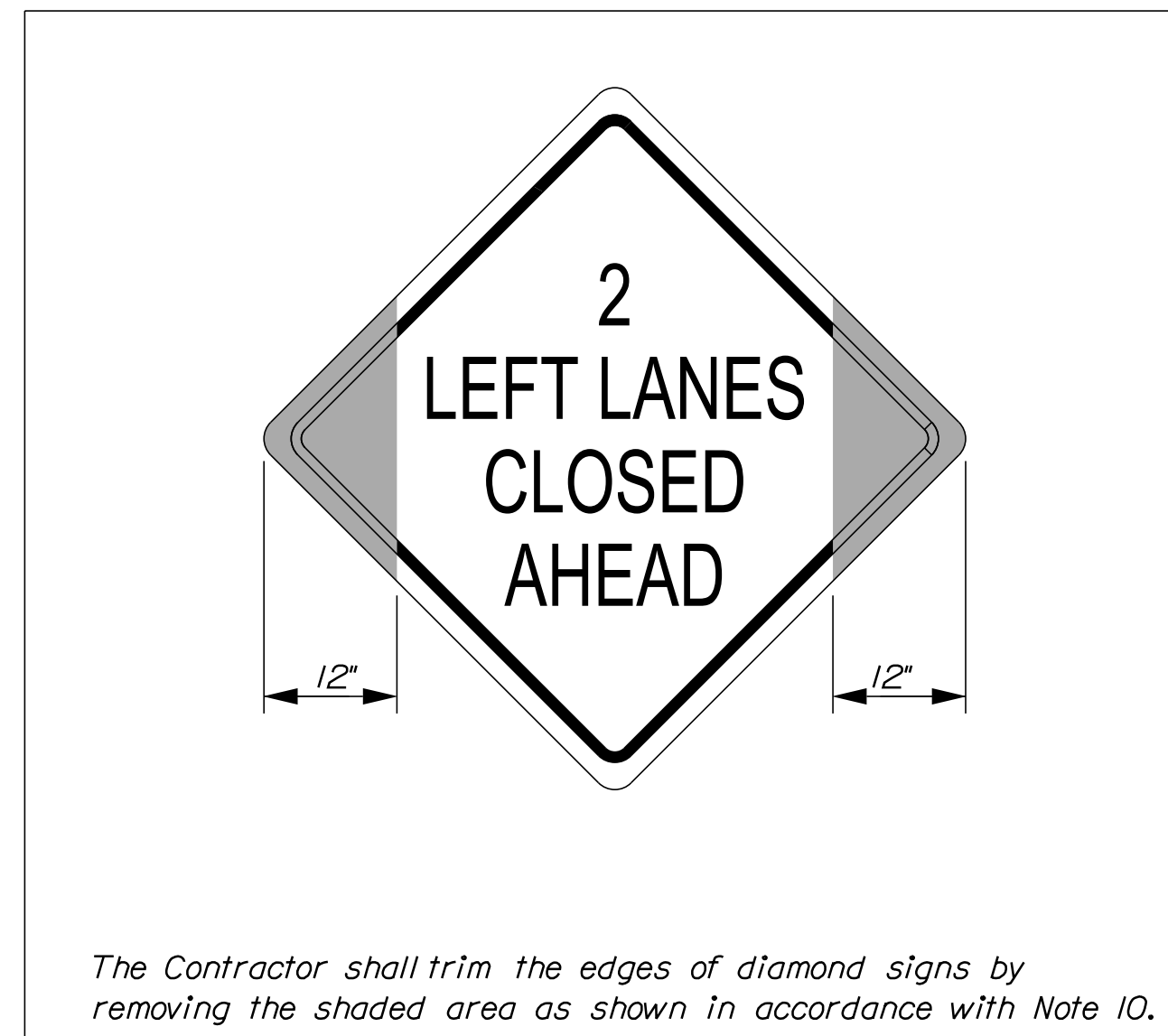
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. These traffic control plans and details apply to all of the project sites included in this Project. Where typical traffic control layouts may be appropriate, the Contractor is directed to use a typical layout from this project's Maintenance of Traffic Details or from the Maine Turnpike Authority Traffic Control Plans located on the MTA website at www.mainturnpike.com/Projects/Construction-Related-Documents.aspx. Where site-specific traffic control plans are required, see the applicable traffic control plans within the Plans. See also the Special Provisions for more details on site specific temporary traffic controls with time and date restrictions.
2. All orange construction signs shall be fluorescent orange with Type VIII, IX or XI sheeting. Placement of signs shall be adjusted to avoid obstructing existing signs and to ensure proper sight lines to the construction signs as determined by the Resident and shall be new or in like new condition.
3. Temporary lane closures will be required, with advanced approval, whenever work will occur within four feet of the I-95 traveled way. Temporary lane closures shall be removed if no work is occurring. See Special Provisions for more information.
4. All lane closures shall require approval from the Maine Turnpike Authority through the Resident. The Resident is required to submit a request for lane closures by noon on Thursday for any lane closures needed for the following week. The Contractor shall plan the work and requests for lane closures accordingly.
5. At the Route 236 off-ramp from the CD Roadway, if a lane closure(s) begin to cause back-ups in through traffic of more than five minutes, the Contractor shall deploy the additional signs as indicated in the Special Provisions.
6. Approach ends of temporary concrete barrier shall be placed outside of the highway clear zone (minimum 34 feet from the traveled way along I-95) or protected by temporary impact attenuators or with guardrail overlaps as approved by the Resident.
7. Maximum spacing for channelizing devices (drums) shall be:
80' on center along tangents
40' on center along tapers
8. Work Zone Speed Limits shall only be permitted when temporary lane closures are in place.
9. A permanent concrete median barrier has been installed along I-95 and the Maine Turnpike from Exit 7 in New Hampshire to Exit 3 in Maine. Where temporary construction signs are proposed on the median side of the roadway and the space available from the edge of the traveled way to the concrete median barrier is less than 8 feet, the Contractor shall install the median side sign(s) on a temporary concrete median barrier sign support.
10. When median barrier sign supports are used and the unaltered edge of the sign is within 6 feet of the traveled way, the Contractor shall trim the edges of the sign in accordance with the detail shown. The minimum distance from the edge of the sign legend to the edge of the altered sign shall not be less than 2 inches.
11. The installation of median side signs along the permanent concrete median barrier shall require a mobile lane closure in accordance with the Maine Turnpike Authority Traffic Control Plans (see Note 1).

MEDIAN BARRIER MOUNTED
SIGN MODIFICATION DETAIL



LOCAL ROAD 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

STABILIZED CONSTRUCTION ENTRANCE

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"	1 - Black on Orange
W7-3aP 			30"x24"	1 - Black on Orange
W20-1 (AHEAD) 			48"x48"	2 - Black on Orange
W21-5 			48"x48"	1 - Black on Orange
CS-10 			48"x48"	1 - Black on Orange

ABBREVIATIONS FOR ALL WORK ZONE PLANS

BWLL = BROKEN WHITE LANE LINE
SWEL = SOLID WHITE EDGE LINE
SYEL = SOLID YELLOW EDGE LINE

Date: 5/26/2022

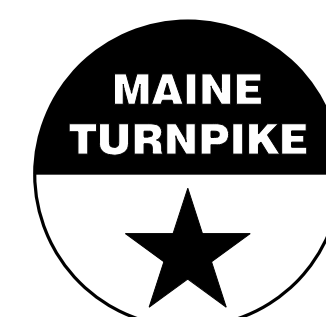
Filename: ...004_workzone_01.dgn

Scale: NOT TO 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. 2022.13

MAINTENANCE OF TRAFFIC DETAILS (1 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	5/26/22	Checked	MDS	5/26/22
Drawn	JAR	5/26/22	In Charge of	TSB	5/26/22

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

VHB: 55345.00

SHEET NUMBER: 4







CONTRACT: 2022.13



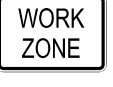






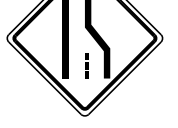
4 OF 31











TURNPIKE SHOULDER CLOSURES

TEMPORARY SINGLE AND DOUBLE LANE CLOSURES

TEMPORARY SINGLE AND DOUBLE LANE CLOSURES CONTINUED

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"	4 - Black on Orange
W20-1 (AHEAD) 			48"x48"	4 - Black on Orange
W21-5aL 			48"x48"	2 - Black on Orange
W21-5aR 			48"x48"	1 - Black on Orange
W21-5bL 			48"x48"	2 - Black on Orange
W21-5bR 			48"x48"	1 - Black on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-3 	7" 7"	4" 4"	48"x48"	4 - Black on Orange
G20-2 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x24"	4 - Black on Orange
G20-5aP 			36"x24"	4 - Black on Orange
R2-1(60) 			48"x60"	4 - Black on White
R2-6aP 			36"x24"	4 - Black on White
R2-12 			36"x54"	4 - Black on White
W3-4 			48"x48"	4 - Black on Orange
W3-5(60) 			48"x48"	4 - Black on Orange
W4-2L 			48"x48"	8 - Black on Orange
W4-2R 			48"x48"	4 - Black on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W8-1 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48"	8 - Black on Orange
W8-24a 			48"x48"	4 - Black on Orange
W20-1 			48"x48"	4 - Black on Orange
W20-1 (AHEAD) 			48"x48"	2 - Black on Orange
W20-5a 			48"x48"	4 - Black on Orange
W20-5L 			48"x48"	4 - Black on Orange
W20-5R 			48"x48"	4 - Black on Orange
W20-5L (AHEAD) 			48"x48"	2 - Black on Orange
W20-5R (AHEAD) 			48"x48"	2 - Black on Orange
CS-4 			48"x48"	2 - Black on Orange


Date: 5/26/2022

Filename: ...005_workzone_02.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	5/26/22	Checked	MDS	5/26/22
Drawn	JAR	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13

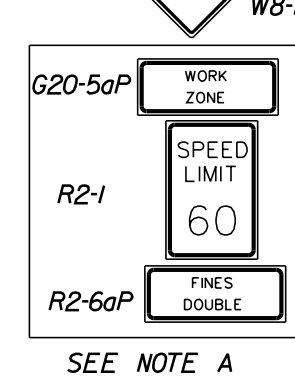
MAINTENANCE OF TRAFFIC DETAILS (2 OF 3)

VHB: 55345.00	SHEET NUMBER: 5
CONTRACT: 2022.13	5 OF 31

Date: 5/26/2022

NOTE A:
FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED, ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.

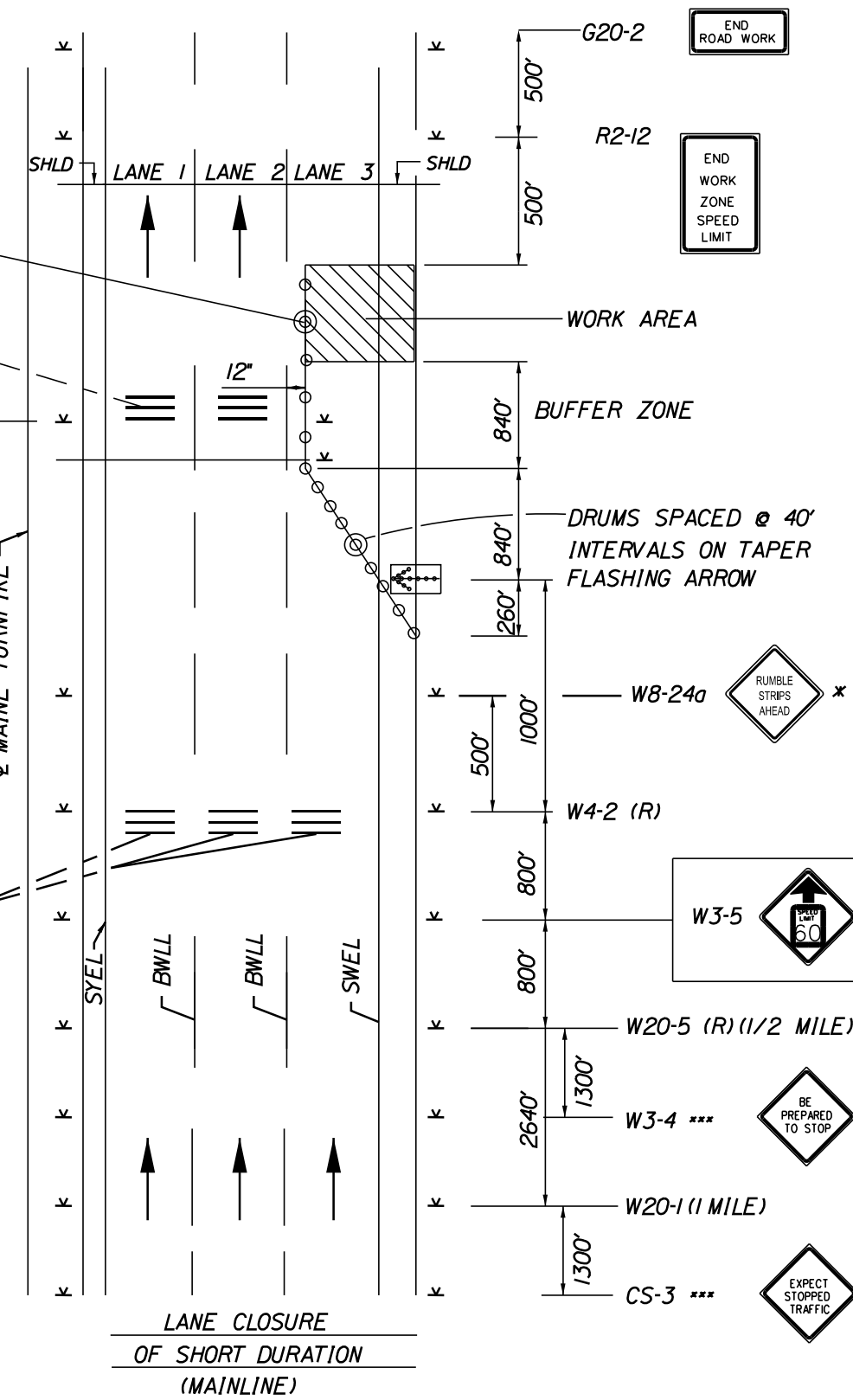
DRUMS SPACED @ 80' INTERVALS ON TANGENT
* RUMBLE STRIPS SEE NOTE 1



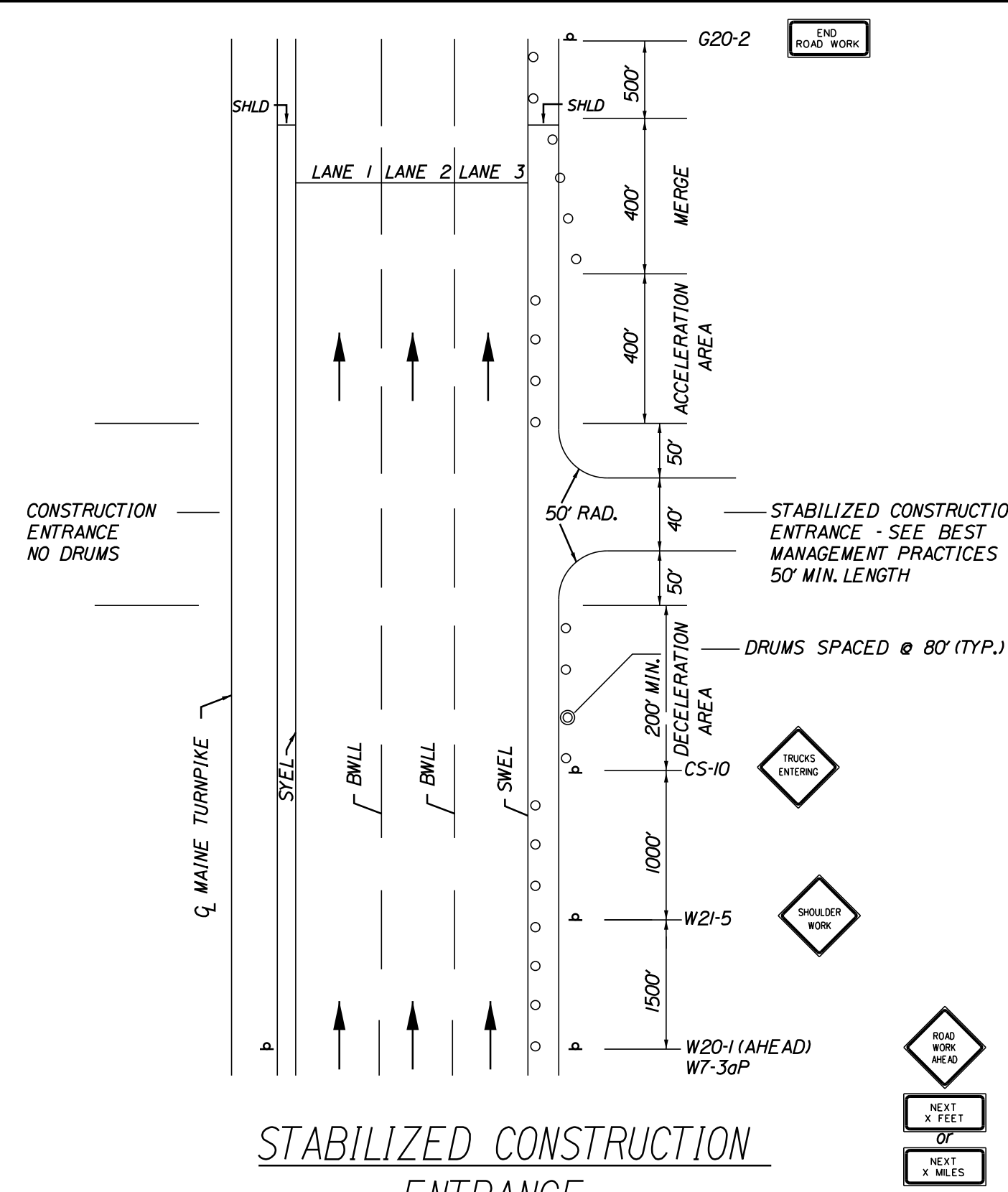
SEE NOTE A

* RUMBLE STRIPS SEE NOTES 1&2

OPTIONAL
*** TO BE USED DURING STOPPAGES OF TRAFFIC

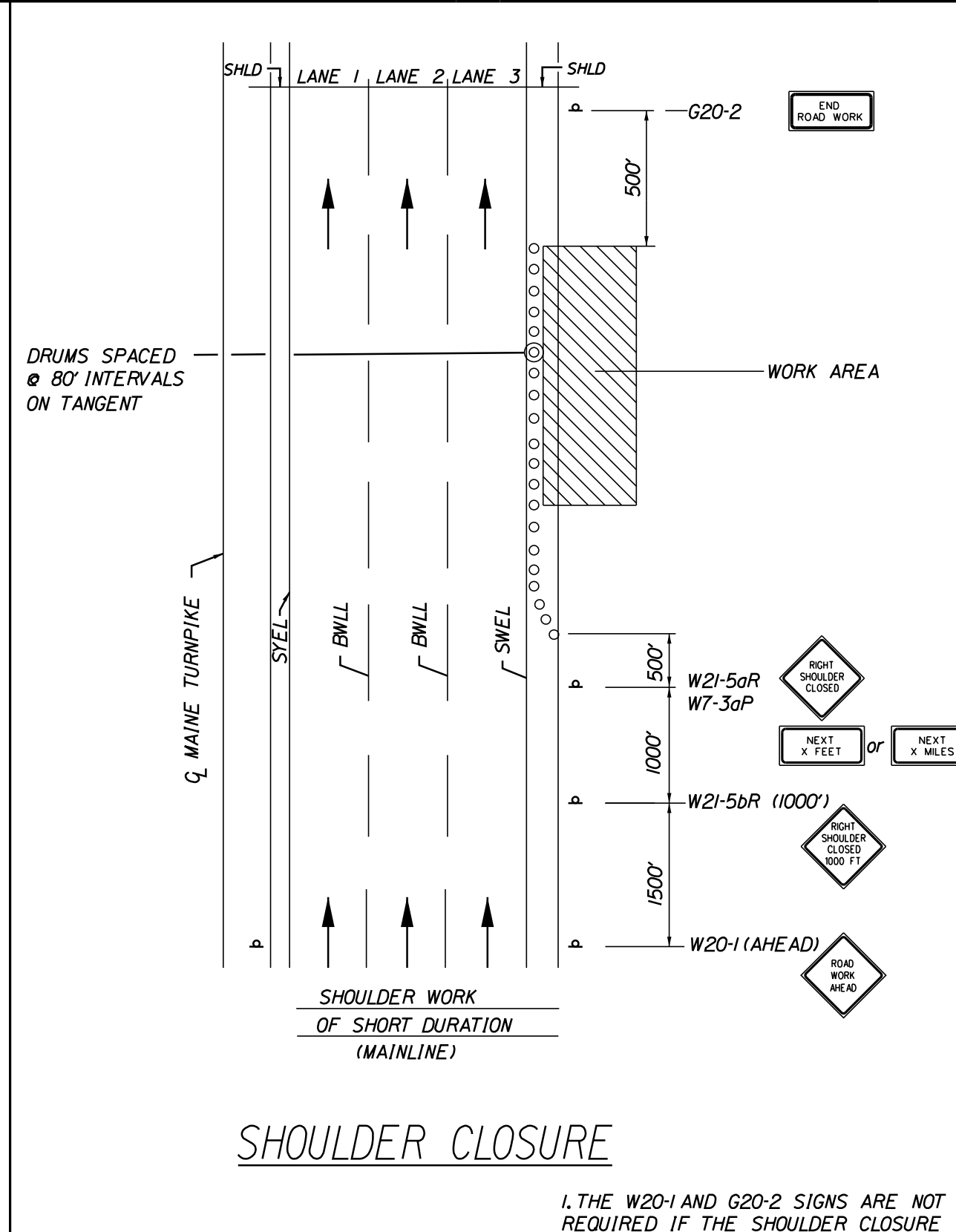


SINGLE LANE CLOSURE - SIGNS ON EASELS



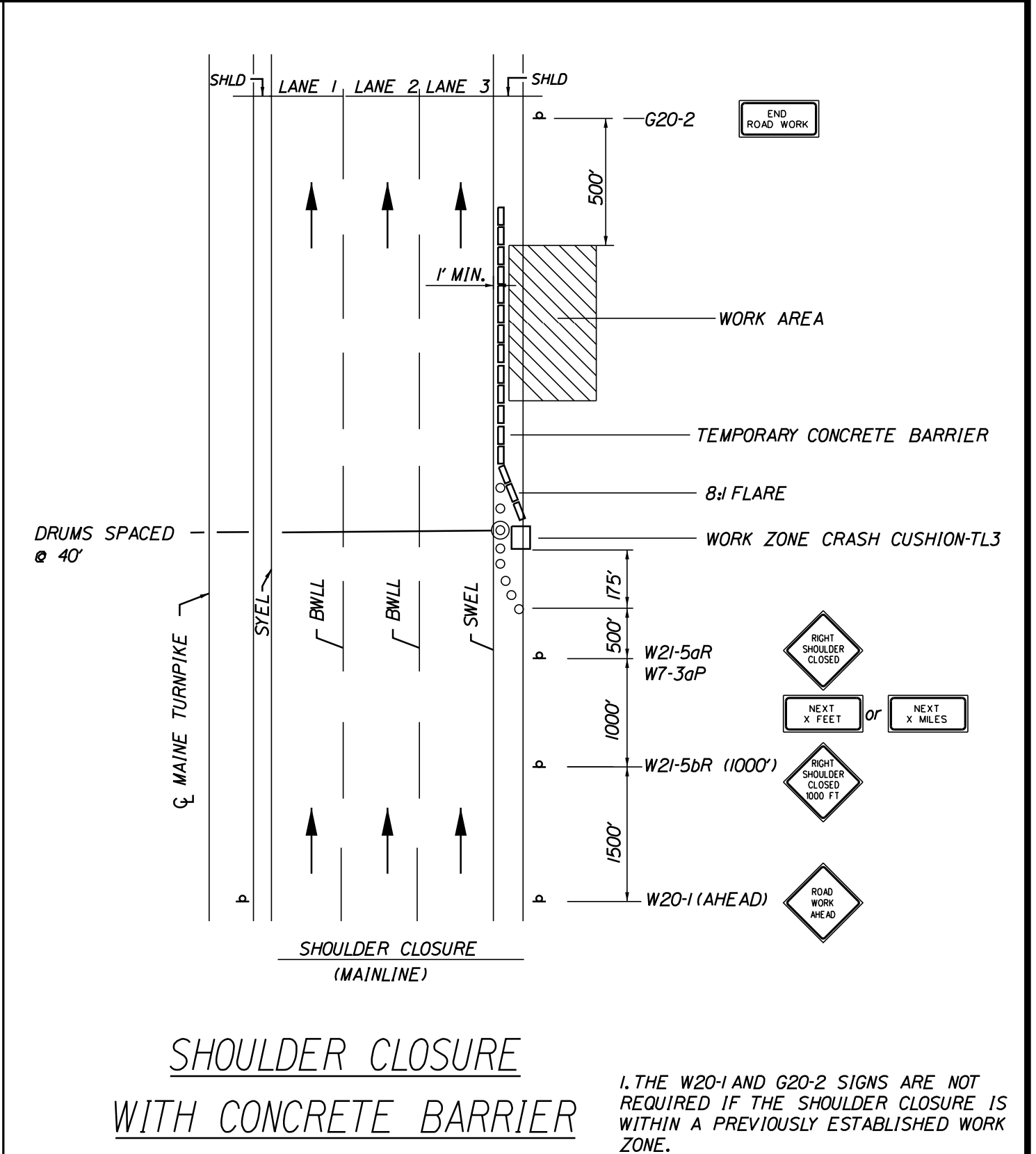
STABILIZED CONSTRUCTION ENTRANCE

1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.



SHOULDER CLOSURE

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.

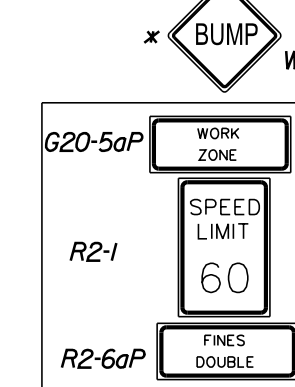


SHOULDER CLOSURE WITH CONCRETE BARRIER

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.
2. ONLY ONE SHOULDER CLOSURE PERMITTED PER BOUND AT ONE TIME.

NOTE A:
FOR POST MOUNTED SIGN SETUP UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HOURS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HOURS).

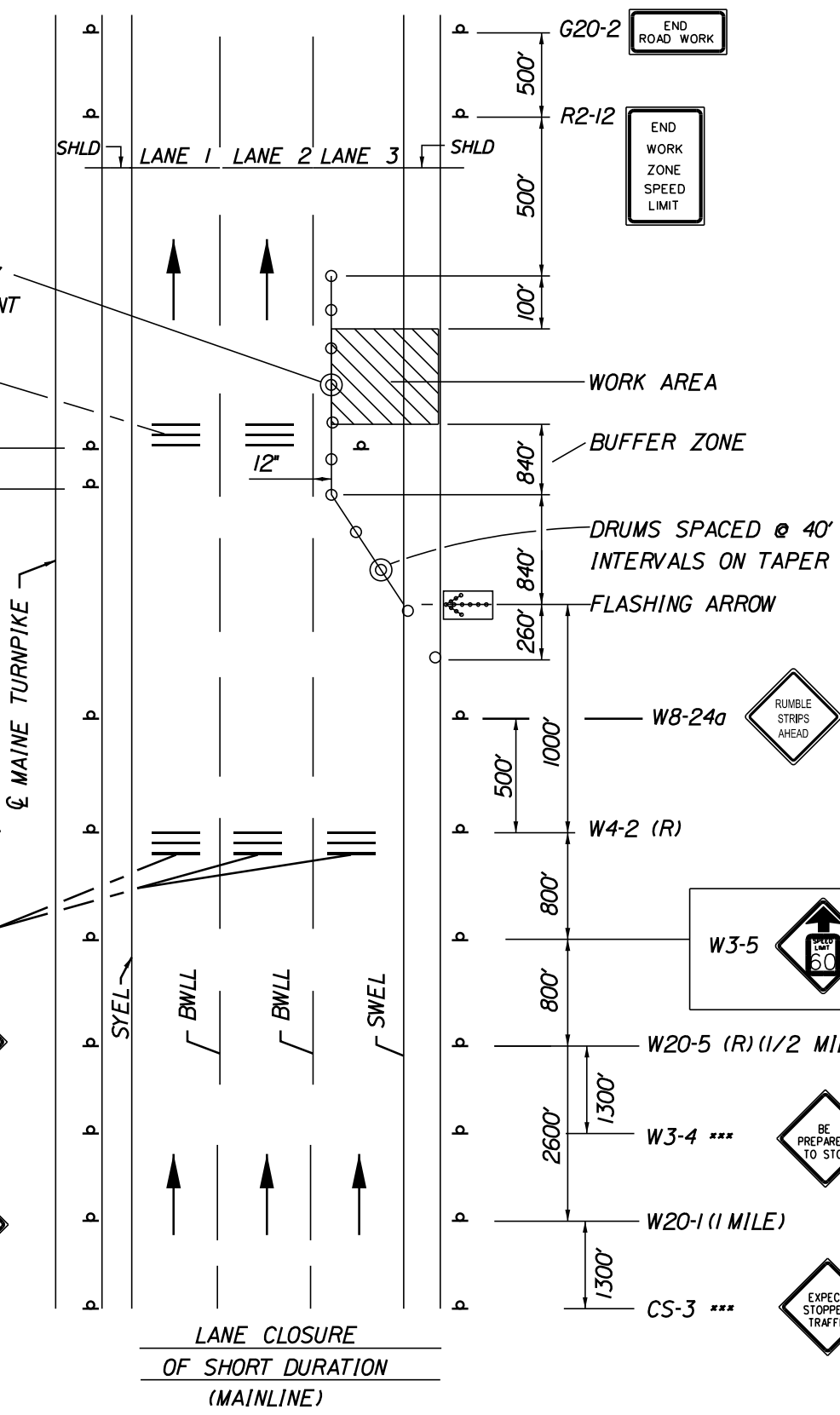
DRUMS SPACED @ 80' INTERVALS ON TANGENT
* RUMBLE STRIPS SEE NOTE 1



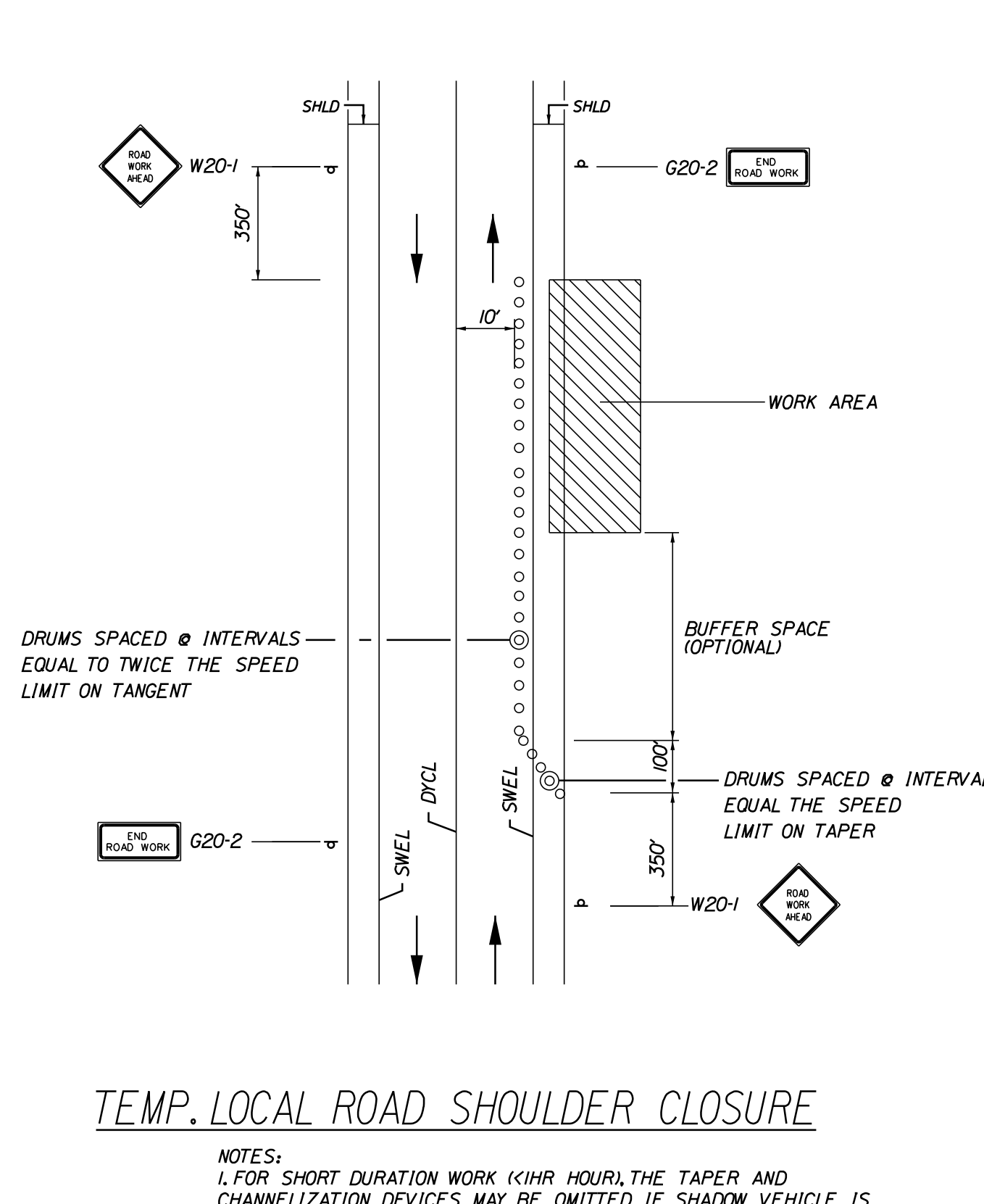
SEE NOTE A

* RUMBLE STRIPS SEE NOTES 1&2

OPTIONAL
*** TO BE USED DURING STOPPAGES OF TRAFFIC

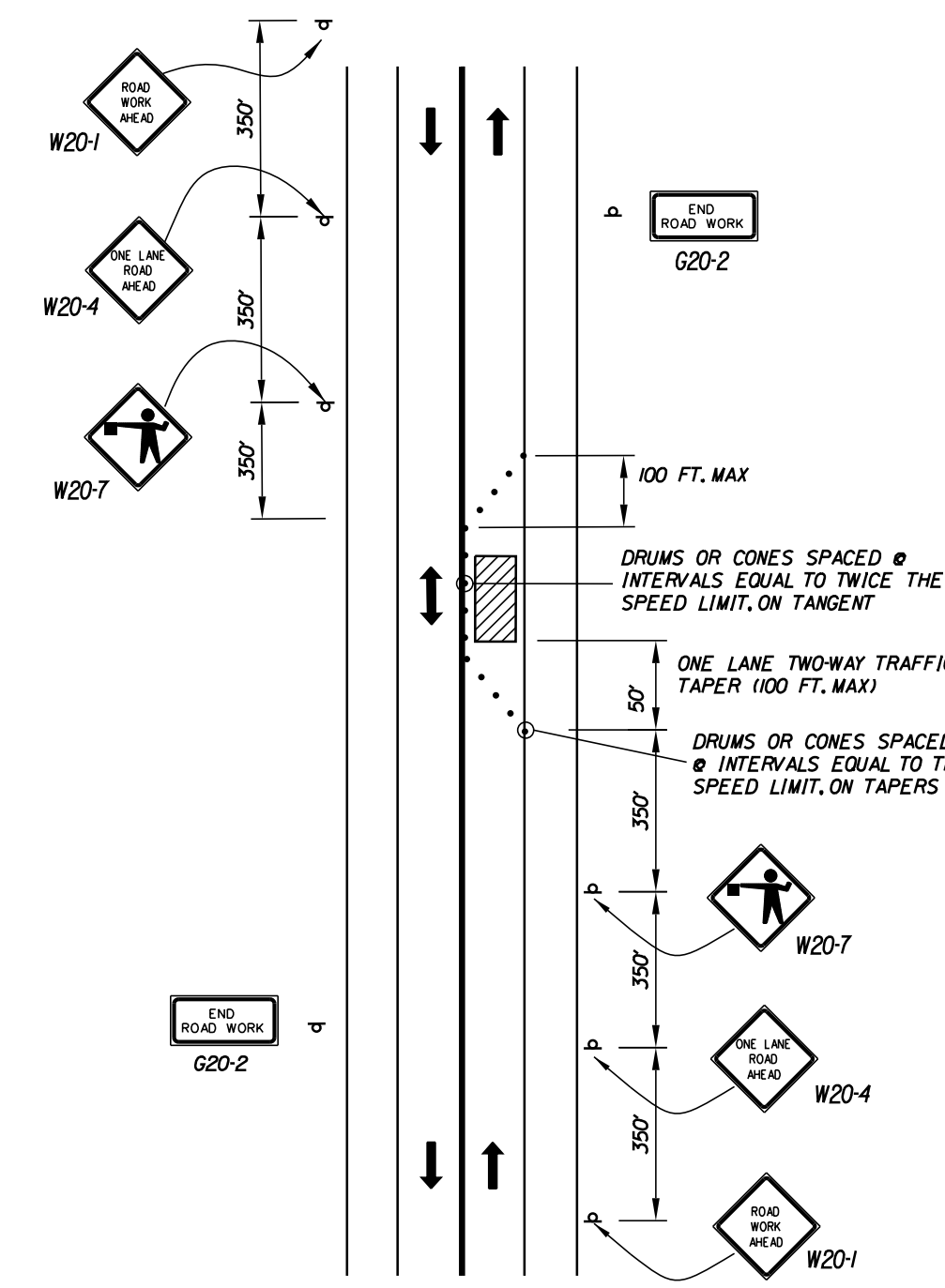


SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP



TEMP. LOCAL ROAD SHOULDER CLOSURE

NOTES:
1. FOR SHORT DURATION WORK (<1HR HOUR), THE TAPER AND CHANNELIZATION DEVICES MAY BE OMITTED IF SHADOW VEHICLE IS PRESENT WITH ACTIVATED HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.



LOCAL ROAD SINGLE LANE CLOSURE

NOTES:
1. ROAD WORK AHEAD & END ROAD WORK SIGNS MAY BE OMITTED FOR SHORT DURATION OPERATIONS (LESS THAN 1 HOUR).
2. FLAGGERS SHALL BE LOCATED SO THEY ARE CLEARLY VISIBLE TO APPROACHING DRIVERS.
3. SIGN SPACING ASSUMES LOCAL ROAD SPEED IS 40 MPH OR LESS.

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

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.

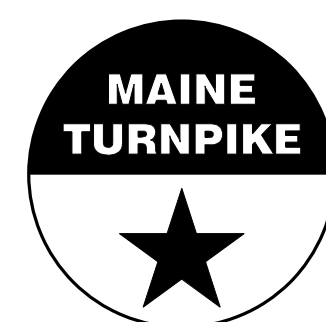
Filename: ...006_workzone_03.dgn

Scale: NOT TO 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. 2022.13

MAINTENANCE OF TRAFFIC DETAILS (3 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MLG	5/26/22	Checked
Drawn	JAR	5/26/22	In Charge of

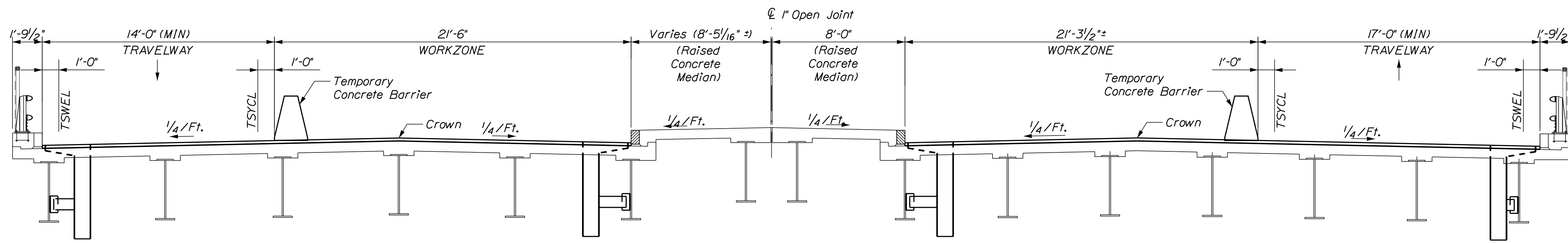
	By	Date	
	MDS	5/26/22	
	TSB	5/26/22	

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 6
6 OF 31

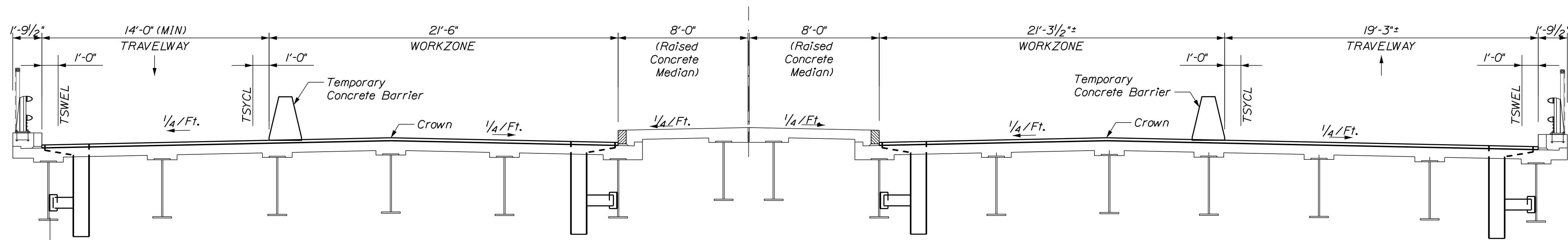
Date: 5/26/2022



WESTBOUND
Not to scale

SECTION @ STA. 87+42

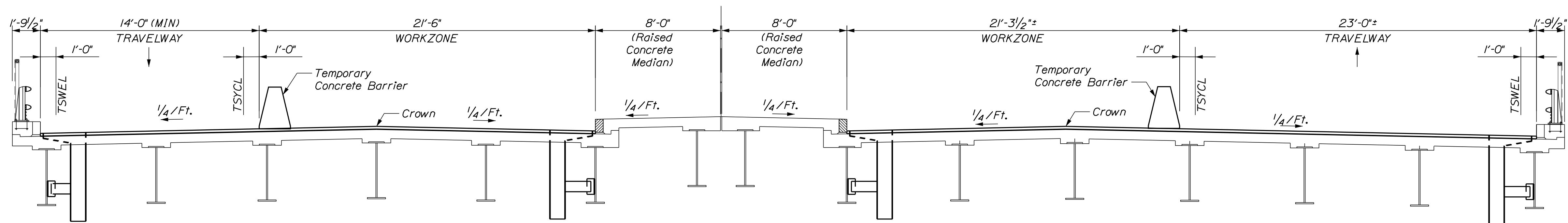
EASTBOUND
Not to scale



WESTBOUND
Not to scale

SECTION @ STA. 88+20

EASTBOUND
Not to scale



WESTBOUND
Not to scale

SECTION @ STA. 89+37

EASTBOUND
Not to scale

CONSTRUCTION NOTE:

Any temporary concrete barrier placed on new wearing surface pavement or new high performance waterproofing membrane shall be placed on plywood or utilize other means of protecting the pavement and/or membrane, as approved by the Resident. All costs for protecting the new pavement and/or membrane shall be considered incidental to Item 526.301, Temporary Concrete Barrier, Type I. Any damage to the new pavement and/or membrane shall be repaired as approved by the Resident and at no cost to the Authority.

Filename: ...007_BTyp_Traffic_01.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
	MEB	5/26/22		GME	5/26/22
	Drawn	DPD	5/26/22	In Charge of	TSB
					5/26/22

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**

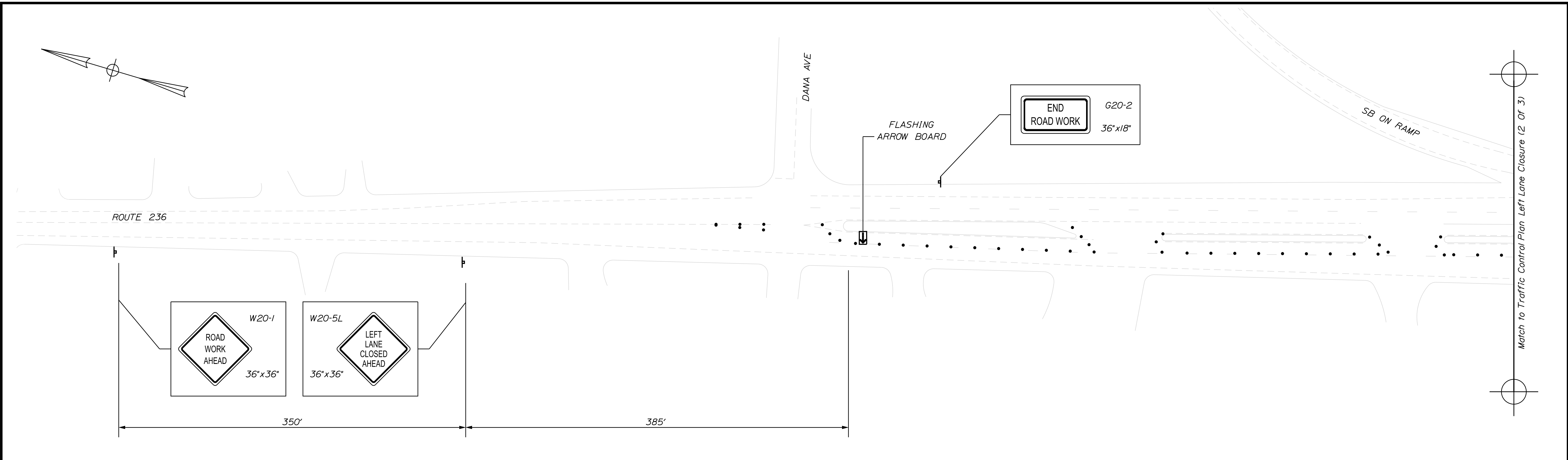
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
LEFT LANE CLOSURE CRITICAL SECTIONS

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 7
7 OF 31

Date: 5/26/2022



ROUTE 236 LEFT LANE AND MEDIAN CLOSURE

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-3		7" 7"	4" 4"	48"x48" 1 - Black on Orange *
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		36"x18" 2 - Black on Orange
RI-1				48"x48" 2 - Red on White
RI-2				36"x36"x36" 1 - Red on White
WI-4R				36"x36" 4 - Black on Orange
W3-1				48"x48" 2 - Black/Red on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W3-4		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48" 1 - Black on Orange *
W4-2(L)				36"x36" 1 - Black on Orange
W20-1 (AHEAD)				36"x36" 2 - Black on Orange
				48"x48" 6 - Black on Orange
W20-5L				36"x36" 1 - Black on Orange

* See Special Provision Section 652 for Requirements for the Use of CS-3 and W3-4


LEGEND

- Detour Sign on Post Support
- Type 3 Barricade with Detour Sign
- Type 3 Barricade
- Channelizing Device
- Flashing Arrow Board

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
 ROUTE 236 UNDERPASS
 AT MM 1.25 IN YORK, ME
 TRAFFIC CONTROL PLAN LEFT LANE CLOSURE
 (1 OF 3)

VHB: 55345.00
 CONTRACT: 2022.13

SHEET NUMBER: **8**
8 OF 31

Filename: ...\\008_TCP_01.dgn

Date: 5/26/2022

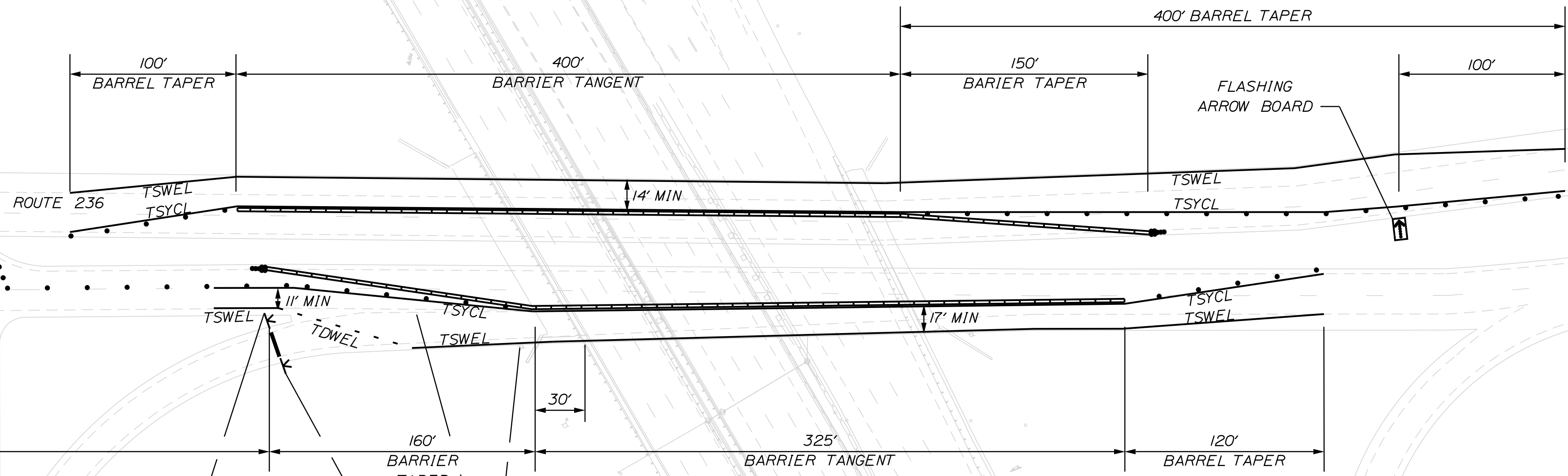
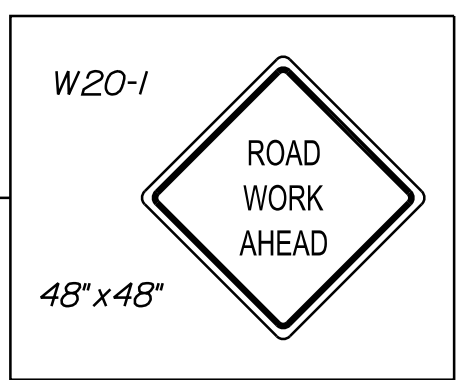
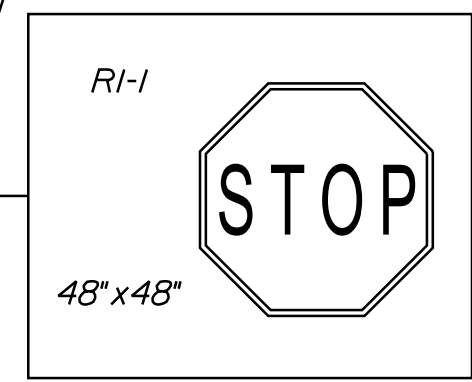
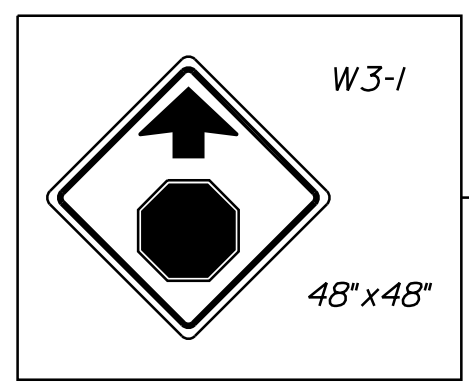
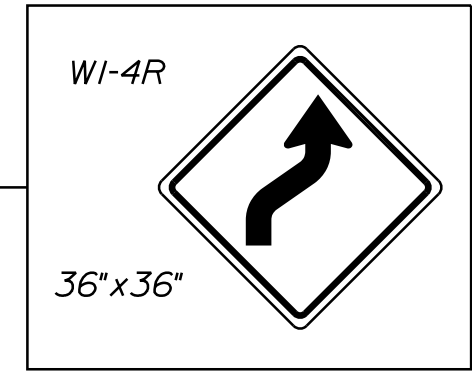
Match to Traffic Control Plan Left Lane Closure (1 of 3)

Match to Traffic Control Plan Left Lane Closure (3 of 3)

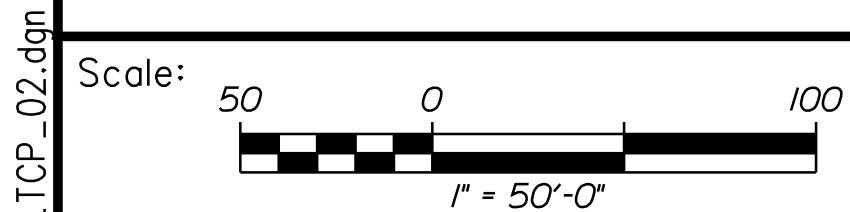
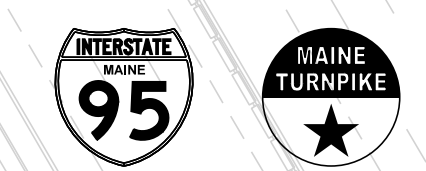
SB ON RAMP

EXIT 2 NB OFF RAMP

EXIT 2 SB ON RAMP
EXIT 2 SB OFF RAMP



COVER EXISTING YIELD SIGN
COVER CONFLICTING PAVEMENT MARKINGS BEYOND THE BRIDGE JOINTS WITH BLACK REMOVABLE TAPE. REMOVE ALL CONFLICTING PAVEMENT MARKINGS ON THE BRIDGE DECK. INSTALL TEMPORARY TAPE AS SHOWN. (EASTBOUND AND WESTBOUND BRIDGES)



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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

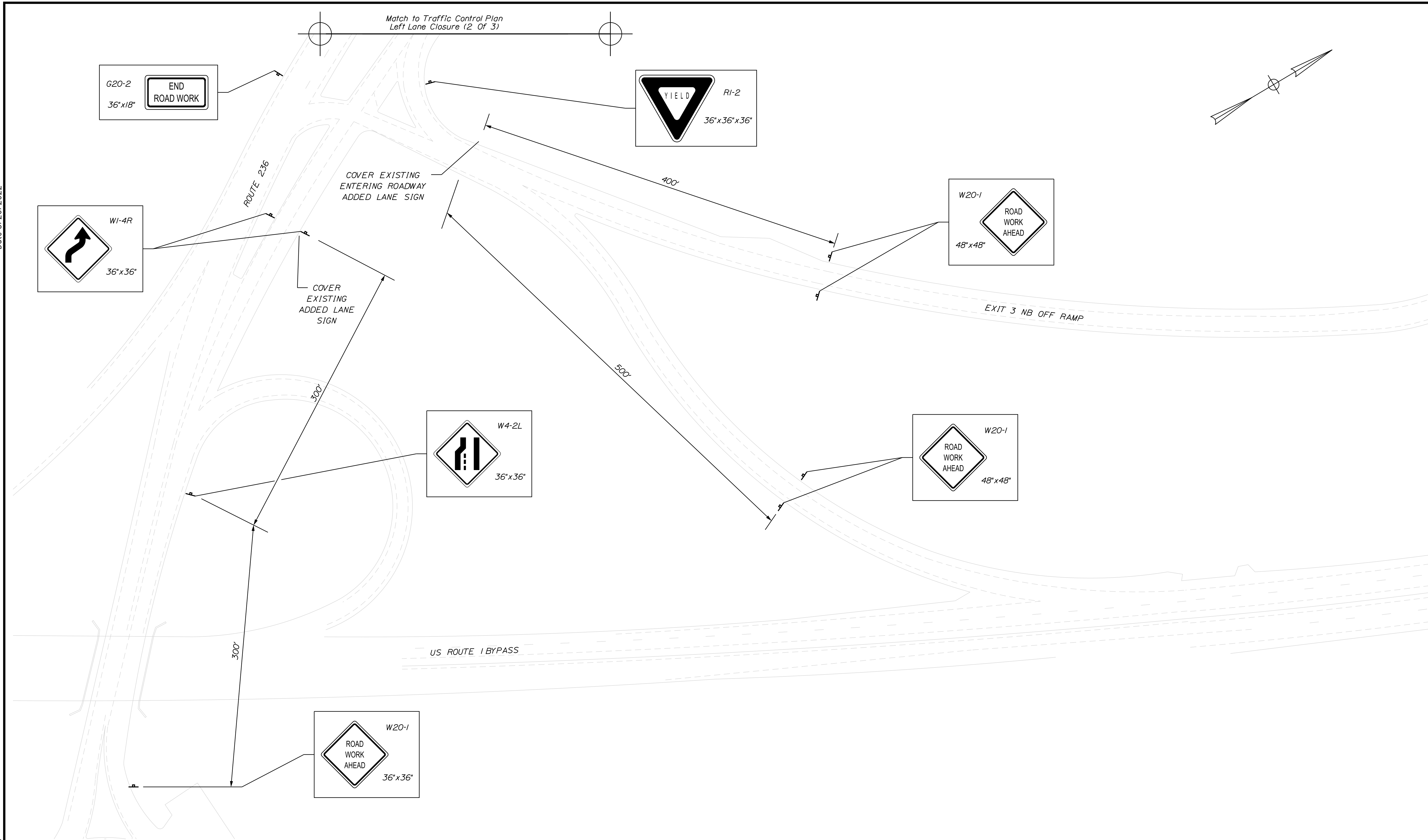
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
TRAFFIC CONTROL PLAN LEFT LANE CLOSURE
(2 OF 3)

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: **9**
9 OF 31


Date: 5/26/2022



Scale: 1" = 50'-0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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**

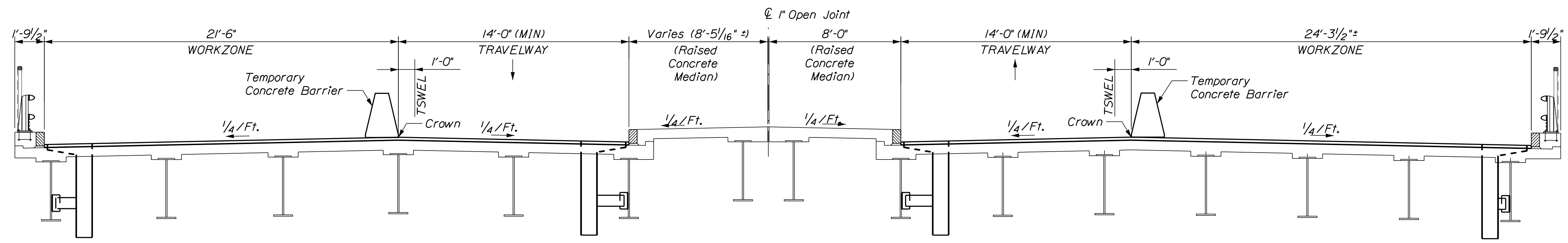
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
 ROUTE 236 UNDERPASS
 AT MM 1.25 IN YORK, ME
 TRAFFIC CONTROL PLAN LEFT LANE CLOSURE
 (3 OF 3)

VHB: 55345.00
 CONTRACT: 2022.13

SHEET NUMBER: 10
 10 OF 31

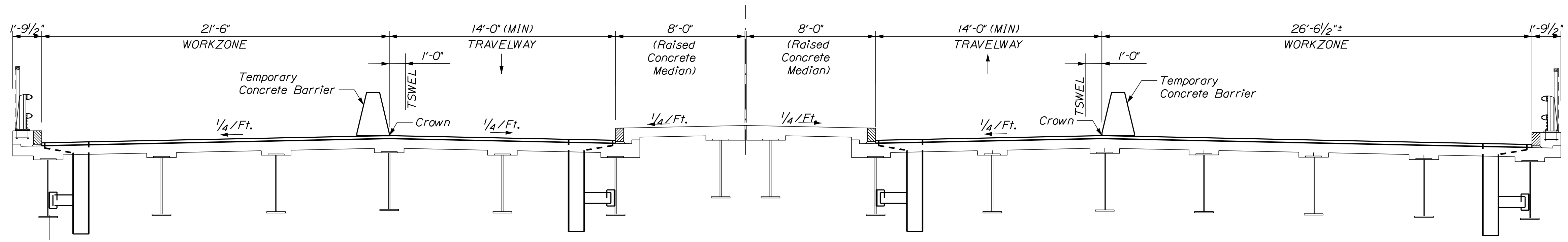
Date: 5/26/2022



WESTBOUND
Not to scale

SECTION @ STA. 87+42

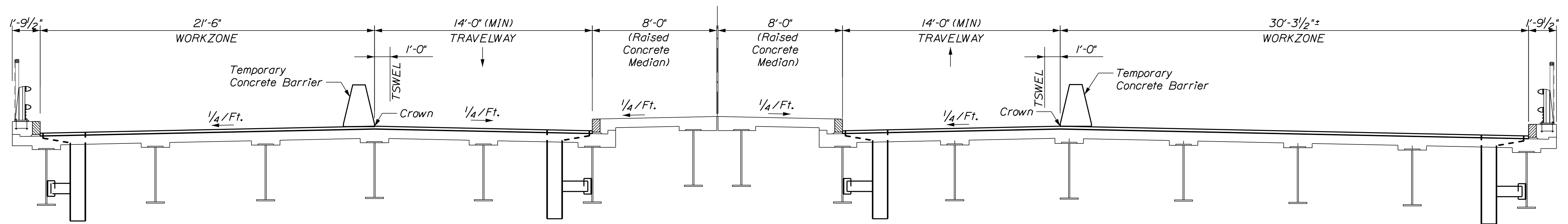
EASTBOUND
Not to scale



WESTBOUND
Not to scale

SECTION @ STA. 88+20

EASTBOUND
Not to scale



WESTBOUND
Not to scale

SECTION @ STA. 89+37

EASTBOUND
Not to scale

CONSTRUCTION NOTE:

Any temporary concrete barrier placed on new wearing surface pavement or new high performance waterproofing membrane shall be placed on plywood or utilize other means of protecting the pavement and/or membrane, as approved by the Resident. All costs for protecting the new pavement and/or membrane shall be considered incidental to Item 526.301, Temporary Concrete Barrier, Type I. Any damage to the new pavement and/or membrane shall be repaired as approved by the Resident and at no cost to the Authority.

Filename: ...011_BTTyp_Traffic_02.dgn

No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
	MEB	5/26/22		GME	5/26/22
	Drawn	DPD	In Charge of	TSB	5/26/22

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**

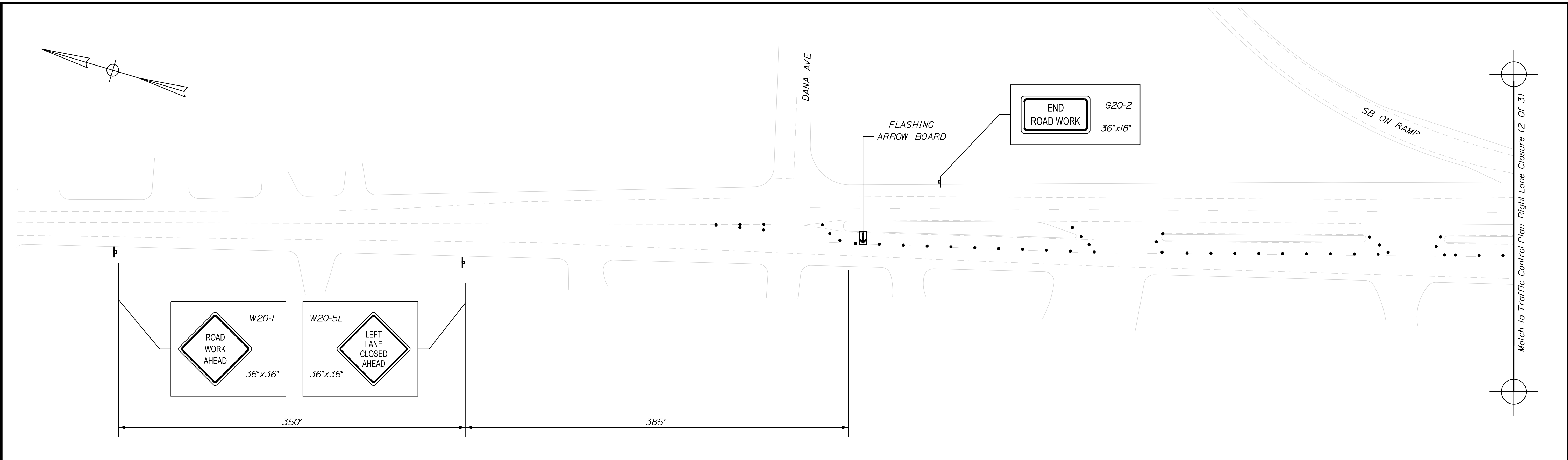
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
RIGHT LANE CLOSURE CRITICAL SECTIONS

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 11
11 OF 31

Date: 5/26/2022



ROUTE 236 RIGHT LANE CLOSURE

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-3		7" 7"	4" 4"	48"x48" 1 - Black on Orange *
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		36"x18" 2 - Black on Orange
RI-1				48"x48" 2 - Red on White
RI-2				36"x36"x36" 1 - Red on White
WI-4L				36"x36" 2 - Black on Orange
W3-1				48"x48" 2 - Black/Red on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W3-4		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48" 1 - Black on Orange *
W20-1 (AHEAD)				36"x36" 2 - Black on Orange 48"x48" 6 - Black on Orange
W20-5L				36"x36" 1 - Black on Orange

* See Special Provision Section 652 for Requirements for the Use of CS-3 and W3-4

LEGEND	
	Detour Sign on Post Support
	Type 3 Barricade with Detour Sign
	Type 3 Barricade
	Channelizing Device
	Flashing Arrow Board

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

By	Date	By	Date
Designed MEB	5/26/22	Checked GME	5/26/22
Drawn DPD	5/26/22	In Charge of TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
 ROUTE 236 UNDERPASS
 AT MM 1.25 IN YORK, ME
 TRAFFIC CONTROL PLAN RIGHT LANE CLOSURE
 (1 OF 3)

VHB: 55345.00
 CONTRACT: 2022.13

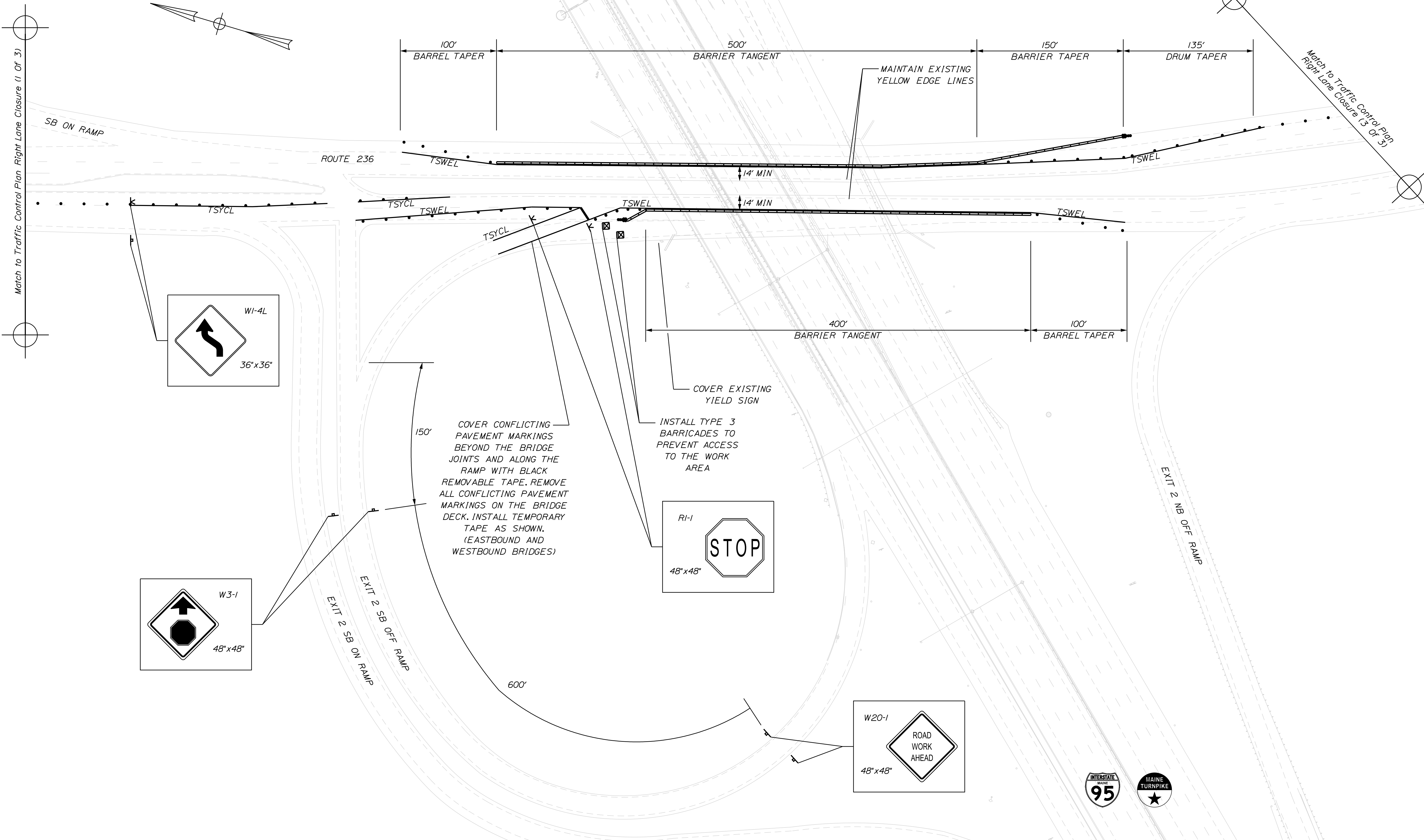
SHEET NUMBER: 12
 12 OF 31

Filename: ...012_TCP_04.dgn

Date: 5/26/2022


Match to Traffic Control Plan Right Lane Closure (1 of 3)

Match to Traffic Control Plan Right Lane Closure (3 of 3)



Scale: 1" = 50'-0"

No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

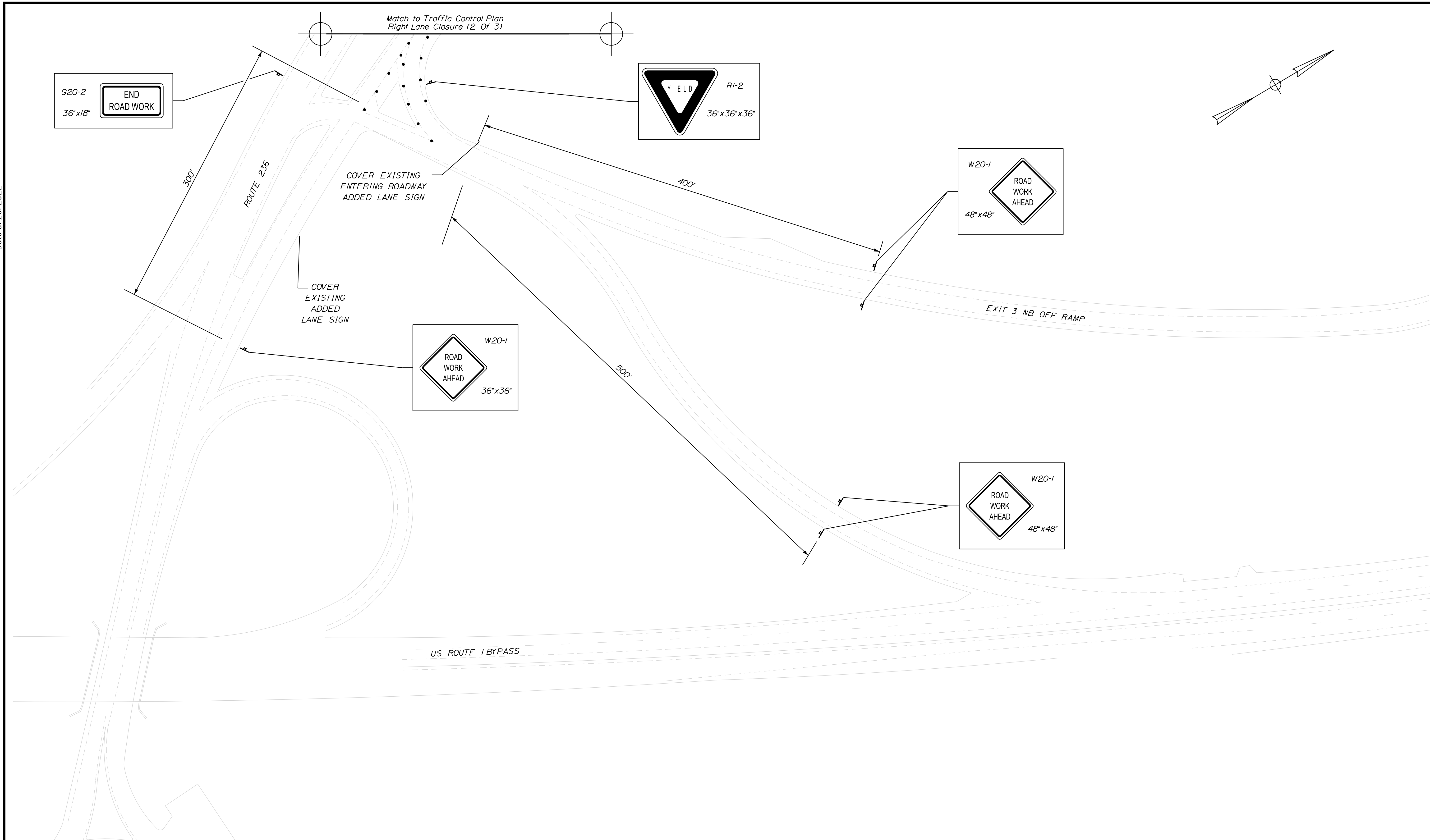
MTA PROJECT NO. 2022.13
 ROUTE 236 UNDERPASS
 AT MM 1.25 IN YORK, ME
 TRAFFIC CONTROL PLAN RIGHT LANE CLOSURE
 (2 OF 3)

VHB: 55345.00
 CONTRACT: 2022.13

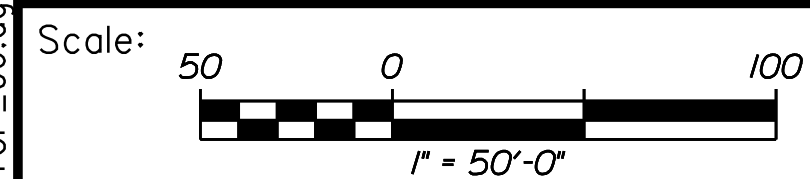
SHEET NUMBER: **13**
 13 OF 31

Filename: ...013_TCP_05.dgn

Date: 5/26/2022



Filename: ...014_TCP_06.dwg



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
 ROUTE 236 UNDERPASS
 AT MM 1.25 IN YORK, ME
 TRAFFIC CONTROL PLAN RIGHT LANE CLOSURE
 (3 OF 3)

VHB: 55345.00
 CONTRACT: 2022.13

SHEET NUMBER: **14**
 14 OF 31

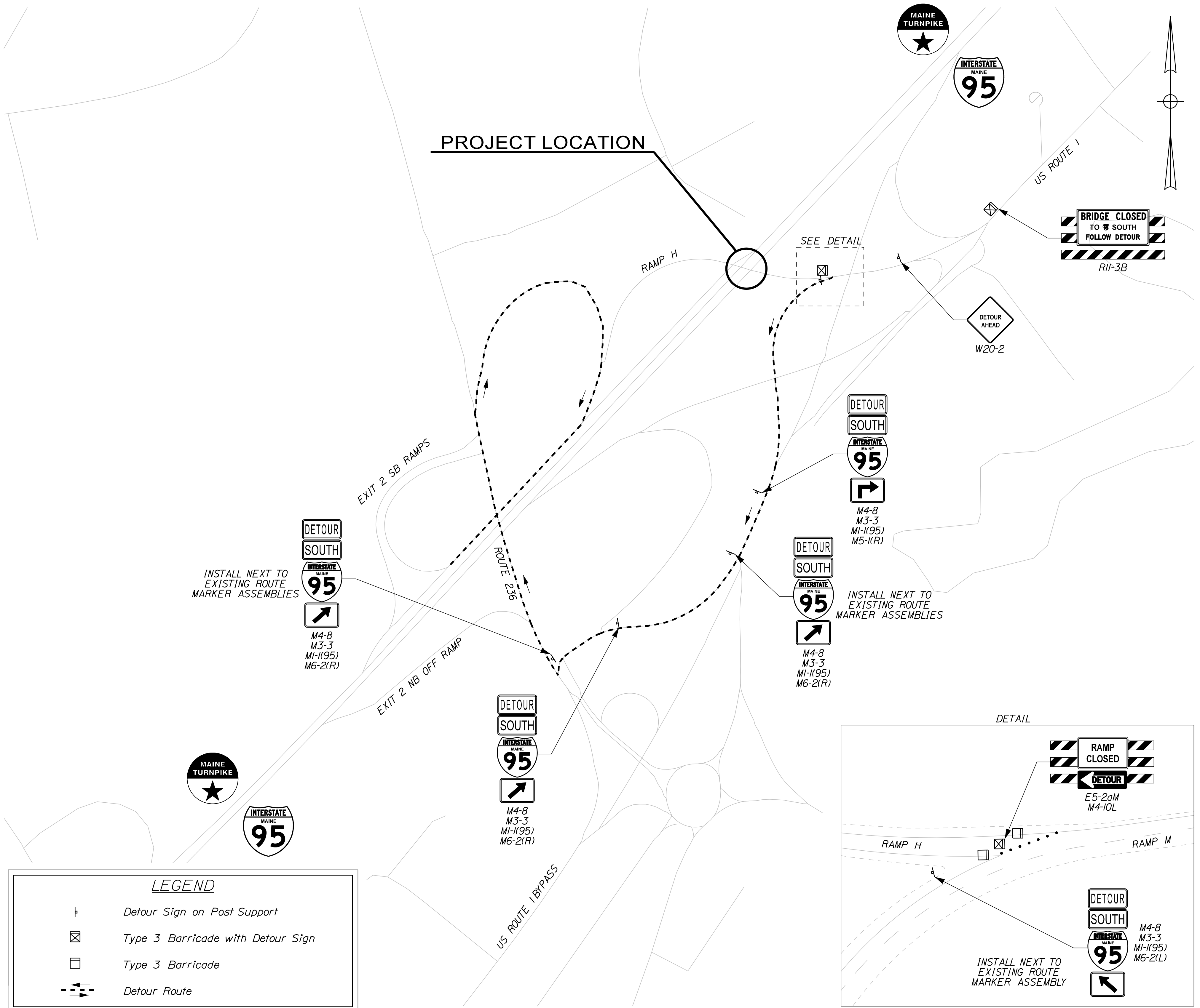
DETOUR FOR ROUTE 1 (RAMP H) UNDERPASS CLOSURE

DETOUR SIGN SUMMARY					
Sign	Text Dimensions (Inches)		Size	Quantity and Color	
	Letter Height	Vertical Spacing			
MI-1(95)		SHSB	36"x36"	5 - Blue / Red / White	
M3-3			36"x18"	5 - White on Blue	
M4-8			30"x15"	5 - Black on Orange	
M4-10L			48"x18"	1 - Black on Orange on Black	
M5-1(R)			30"x21"	1 - White on Blue	
M6-2(L)			30"x21"	1 - White on Blue	
M6-2(R)			30"x21"	3 - White on Blue	
E5-2aM		8E 8D	7" 6" 7"	48"x36"	1 - Black on Orange
R11-3B		6" 4"/5"/4" 4"	3.38" 3.38"	60"x30"	1 - Black / Red / Blue on White
W20-2		SHSB	48"x48"	1 - Black on Orange	

SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

CONSTRUCTION NOTE:

Detour signs shall not be installed more than two weeks prior to the start of the detour and all detour and other traffic control materials shall be removed within two weeks of the end of the detour.



LEGEND

- Detour Sign on Post Support
- Type 3 Barricade with Detour Sign
- Type 3 Barricade
- Detour Route

Date: 5/26/2022

Filename: ...015_Detour_01.dgn

Scale: 1" = 300'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	5/26/22		MDS	5/26/22
Drawn	JAR	5/26/22	In Charge of	TSB	5/26/22

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

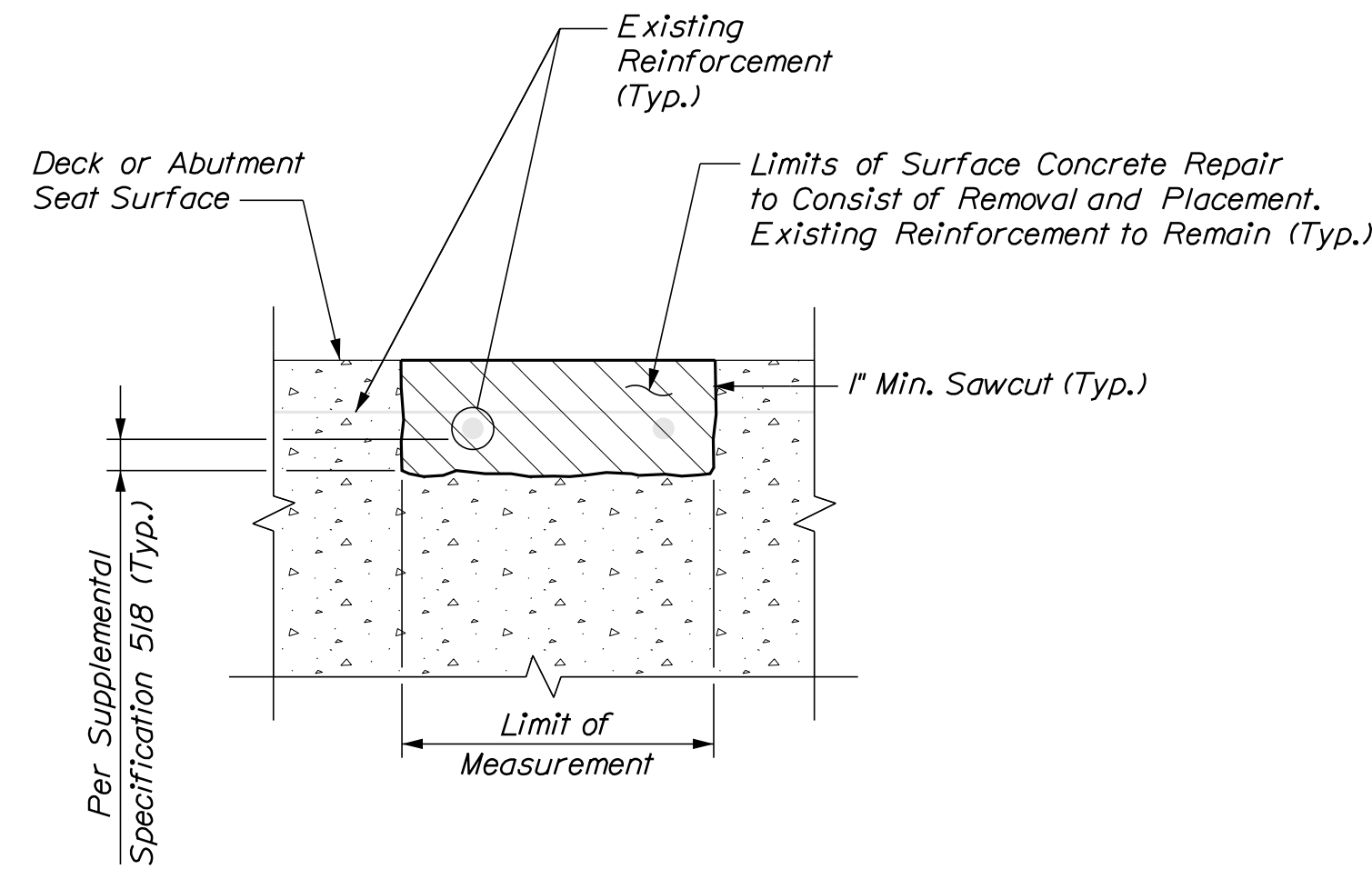
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
 ROUTE 1 (RAMP H) UNDERPASS
 AT MM 1.60 IN YORK, ME
 DETOUR PLAN

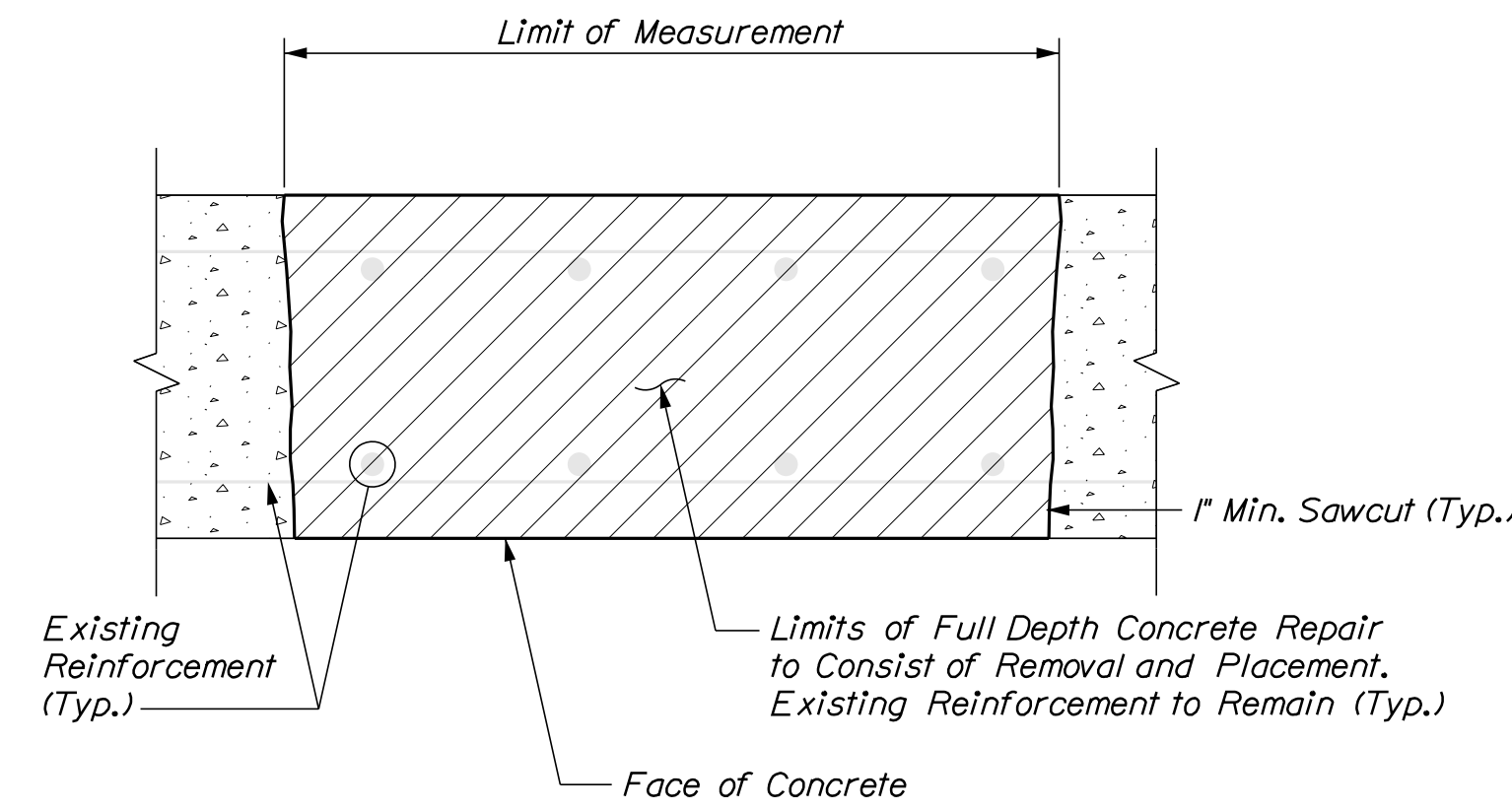
VHB: 55345.00
 CONTRACT: 2022.13

SHEET NUMBER: 15
 15 OF 31

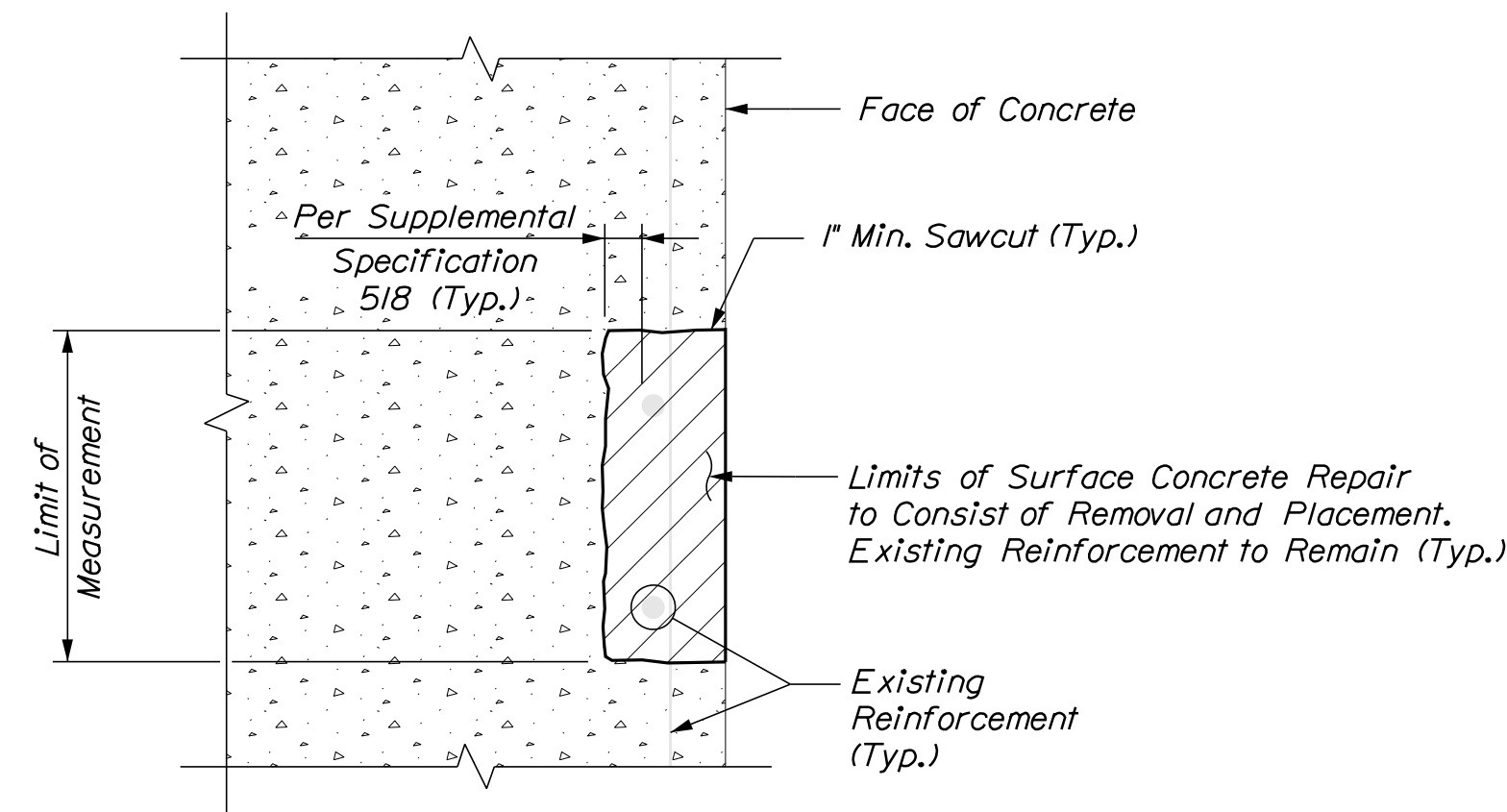
Date: 5/26/2022



TYPICAL HORIZONTAL SURFACE CONCRETE REPAIR DETAILS



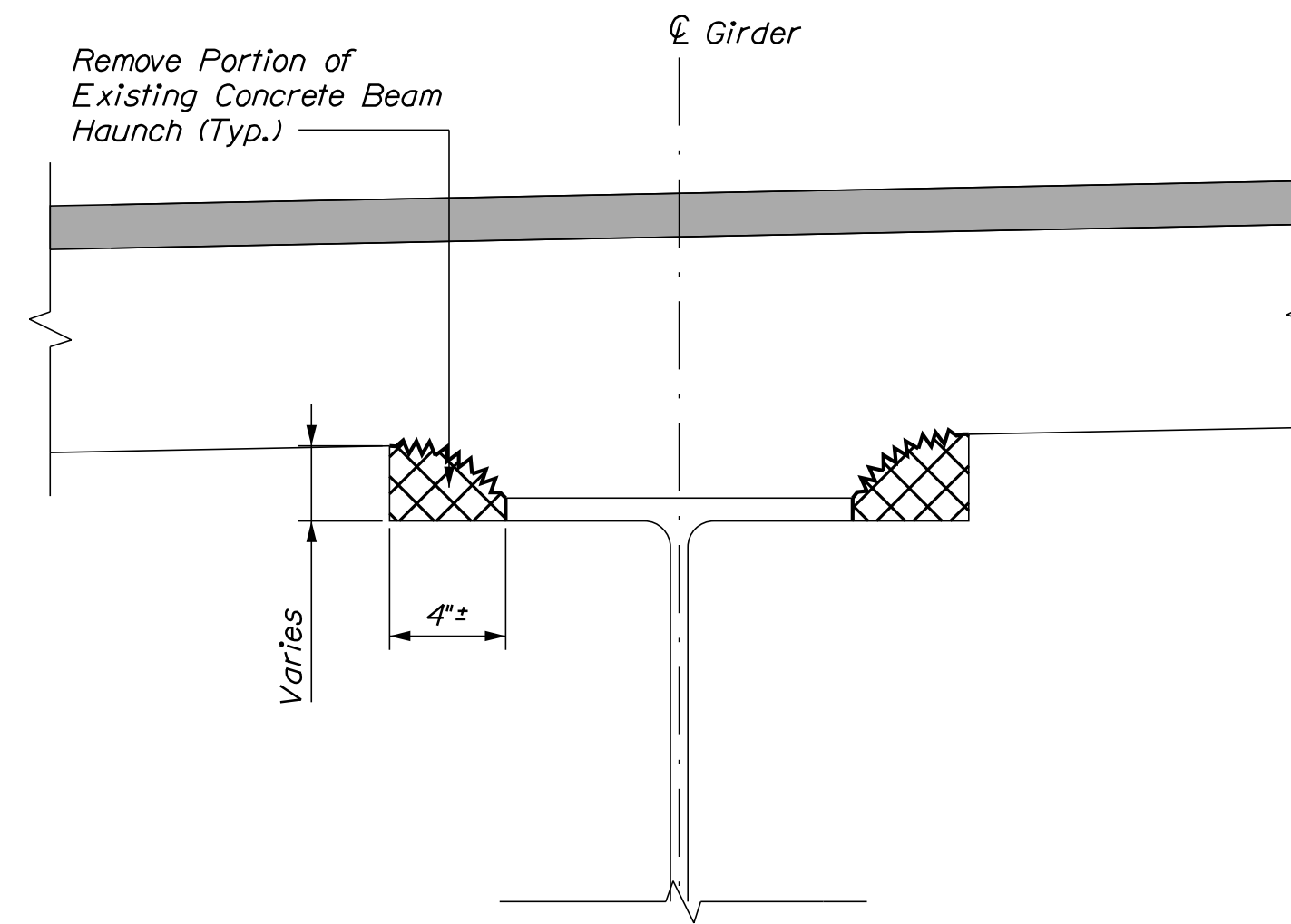
TYPICAL FULL DEPTH CONCRETE REPAIR DETAILS



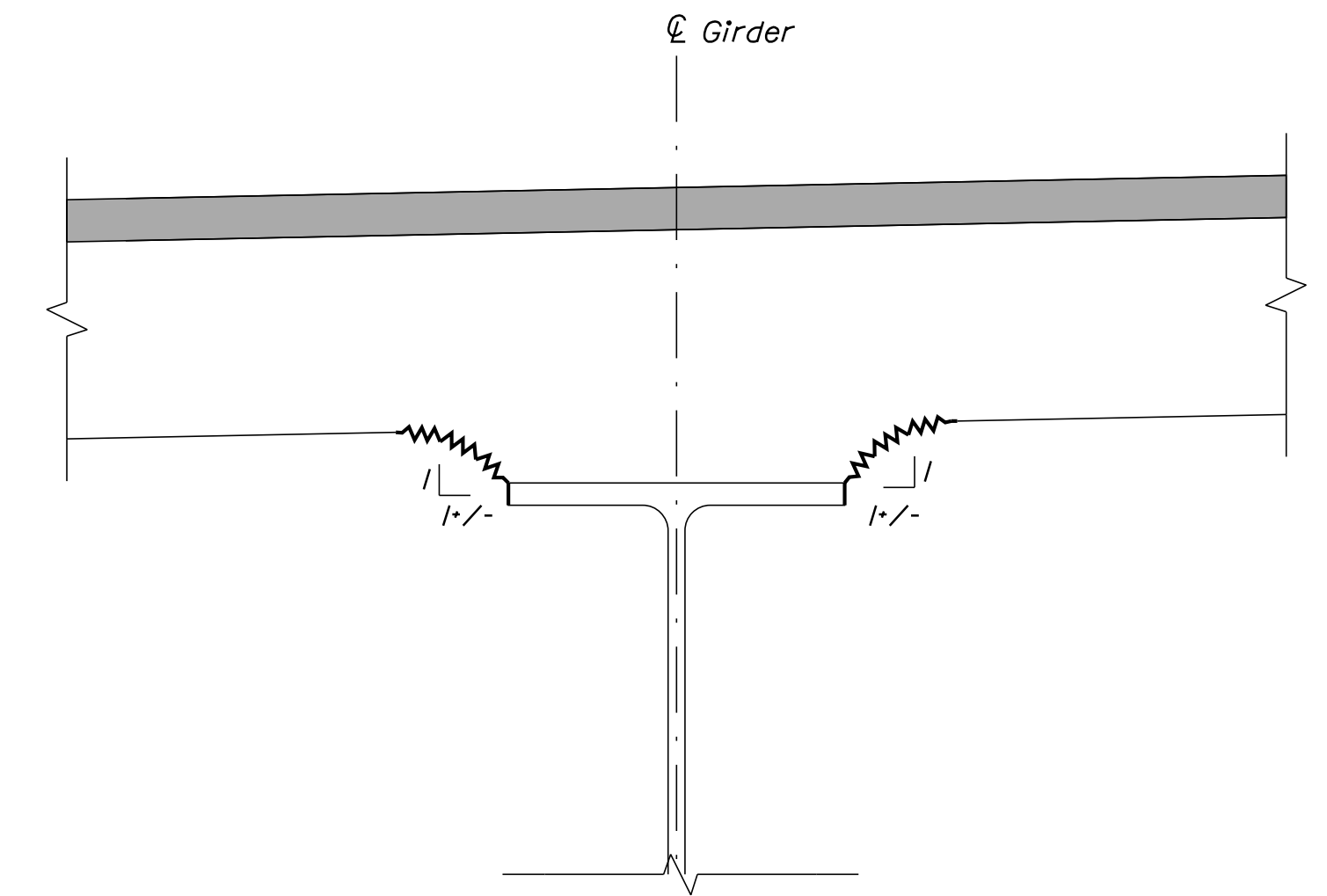
TYPICAL VERTICAL SURFACE CONCRETE REPAIR DETAILS

CONCRETE HAUNCH REMOVAL NOTES:

1. The removal of the portion of the unreinforced 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.



EXISTING CONDITION
Not to Scale



FINAL CONDITION
Not to Scale

CONCRETE HAUNCH REMOVAL DETAILS

CONCRETE REPAIR NOTES

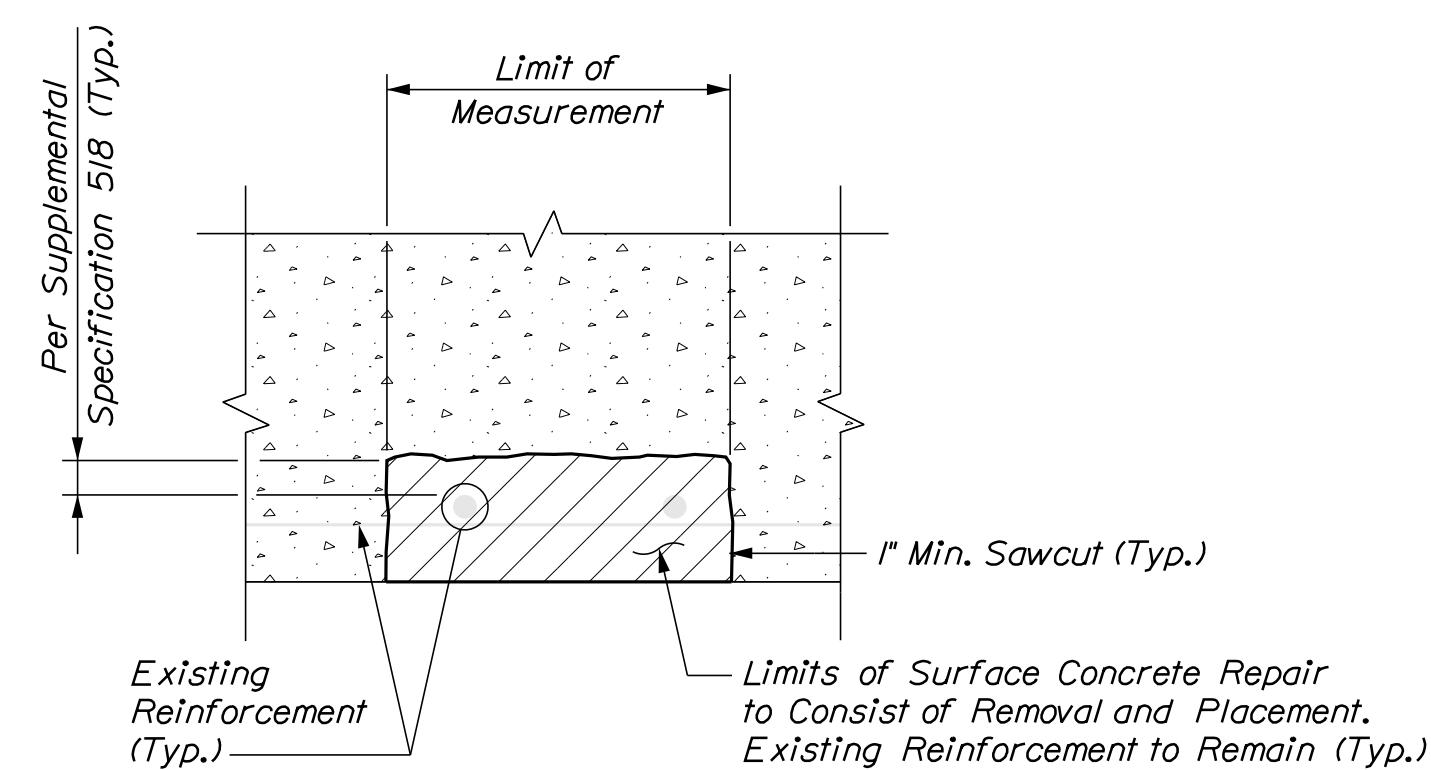
1. Repair work shall include: surface concrete repairs, epoxy injection crack repair and providing access for inspection.
2. Where surface concrete repairs are specified the work shall include removal of unsound concrete and placement and curing of repair materials. Repairs shall be measured for payment under Items 202.1211, Removing Existing Girder Haunches, 202.122 Removing Existing Structural Concrete, 518.10 Abutment Repairs, 518.20 Pier Repairs, 518.75 Fascia and Overhang Repairs, 518.70 Repair of Overhead Surfaces <8 inches, 518.80 Partial Depth Concrete Deck Repair and 518.82 Median Concrete Deck Repair.
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 at the Resident's discretion.
4. The estimated repair quantities are based on inspections completed in April - December 2020.

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.

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 OVERHEAD SURFACE CONCRETE REPAIR DETAILS

KEY

- Existing Concrete
- Proposed Concrete

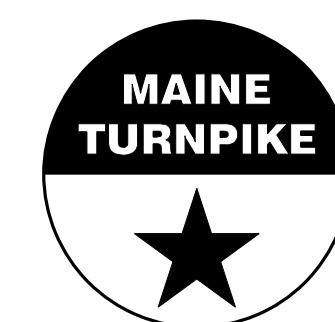
Filename: ...016_concrerepair.dgn

Scale: NOT TO 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. 2022.13

CONCRETE REPAIR TYPICAL DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington

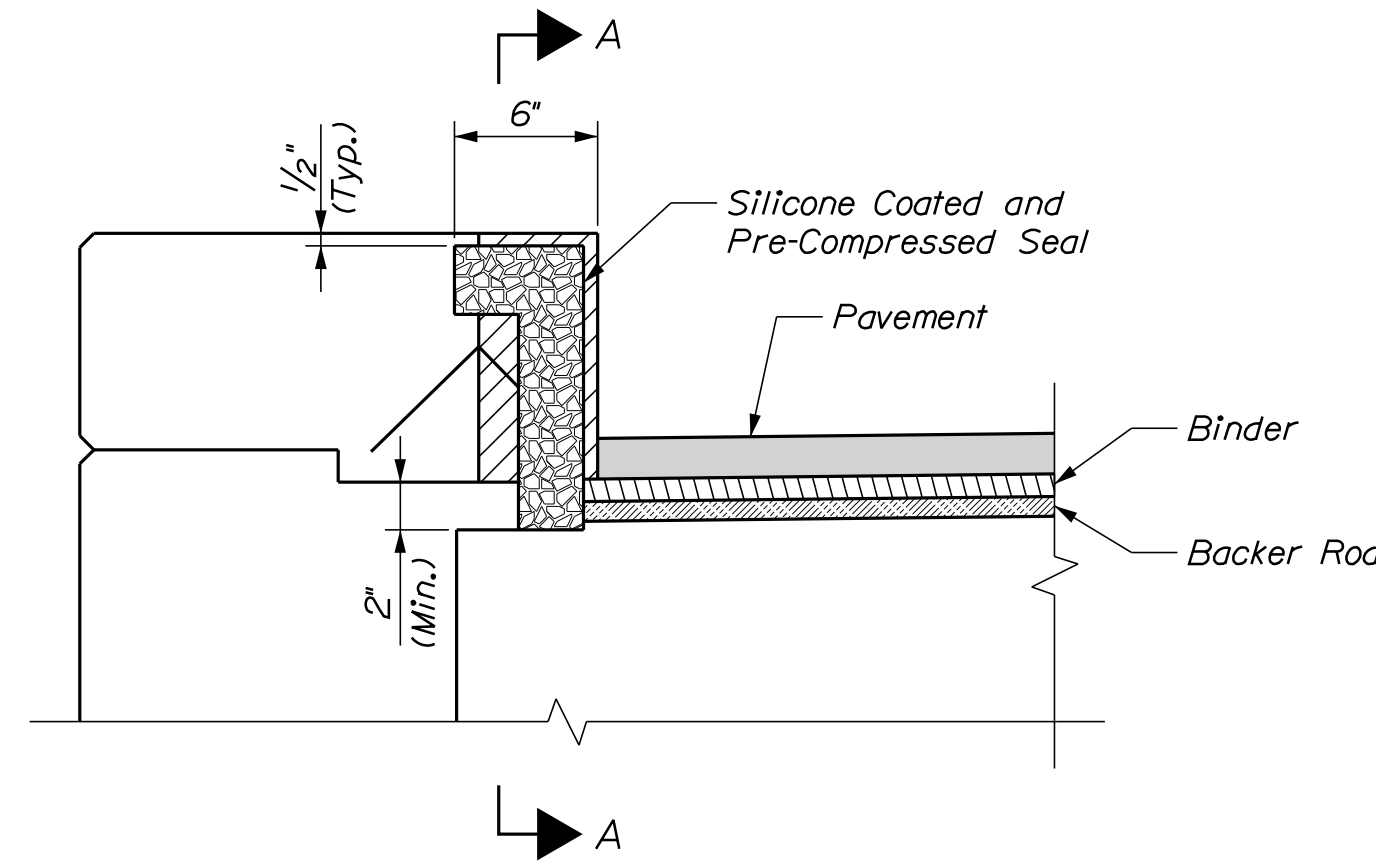
	By	Date	By	Date
Designed	MEB	5/26/22	Checked	GME 5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB 5/26/22

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

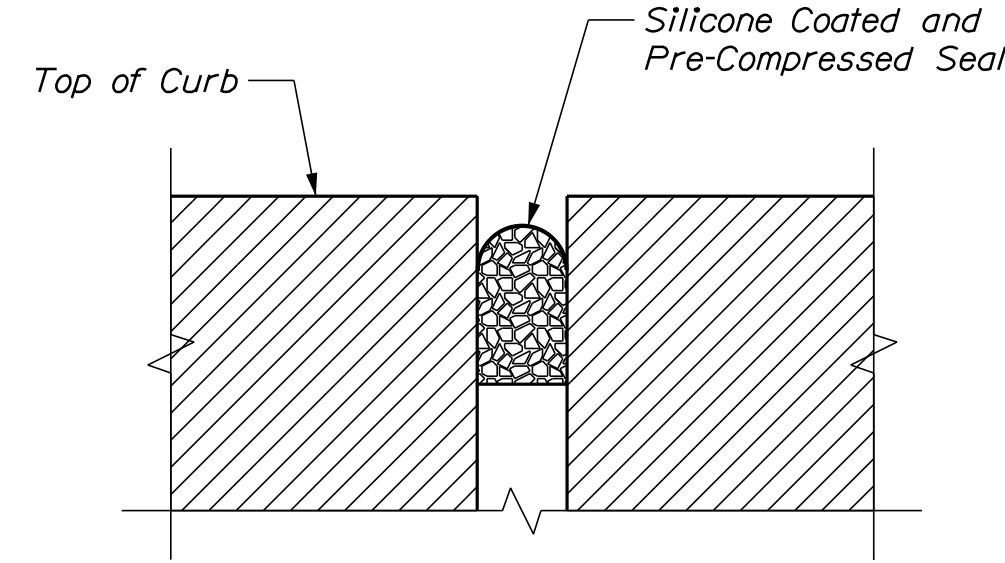
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 16
16 OF 31

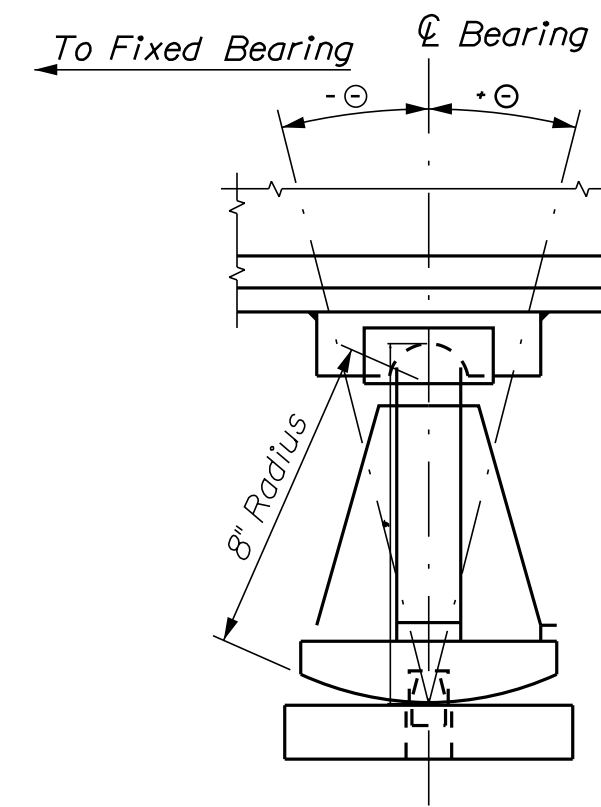
Date: 5/26/2022



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



SECTION A-A
Not to Scale



EXPANSION BEARING SETTING DIAGRAM
Not to Scale

Temp. (deg. F):	Theta (deg.) [⊙] Abutment 2
30	-1.92
40	-0.64
45	0.00
50	0.64
60	1.92
70	3.20
80	4.47
90	5.75

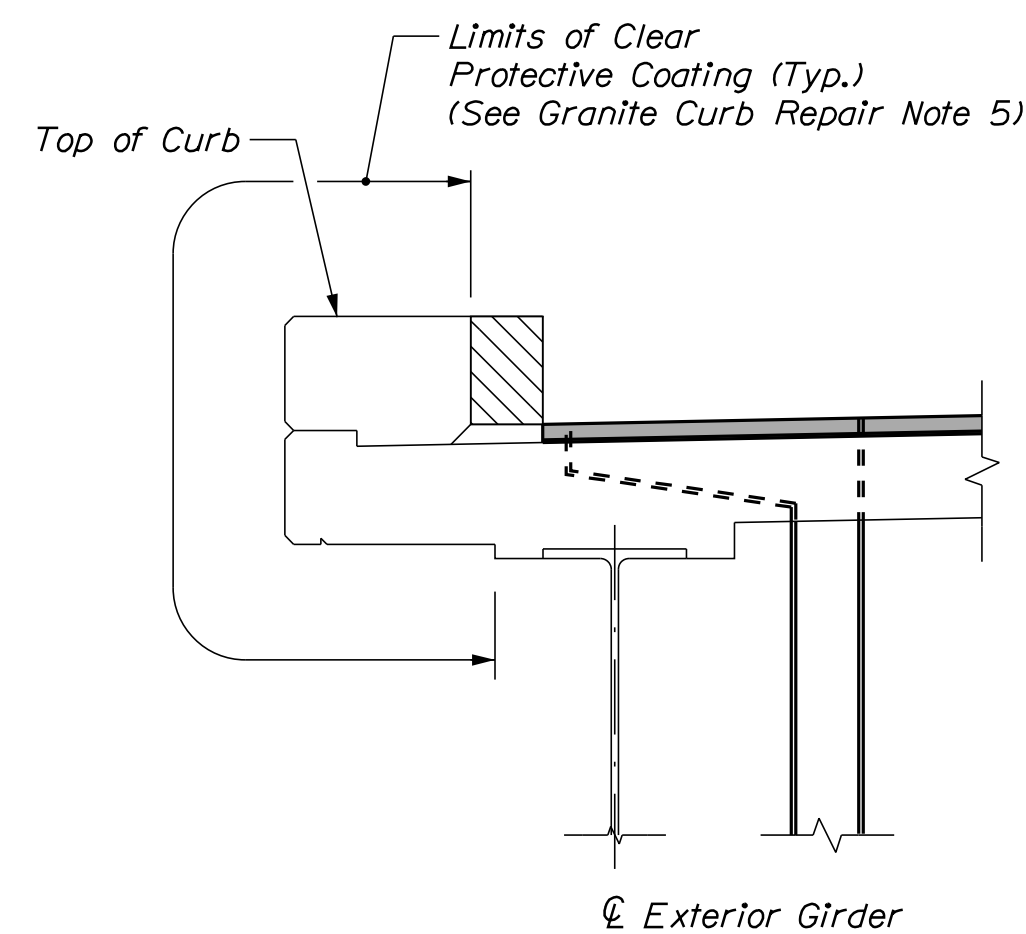
ROUTE 236 BEARINGS TABLE

JOINT NOTES

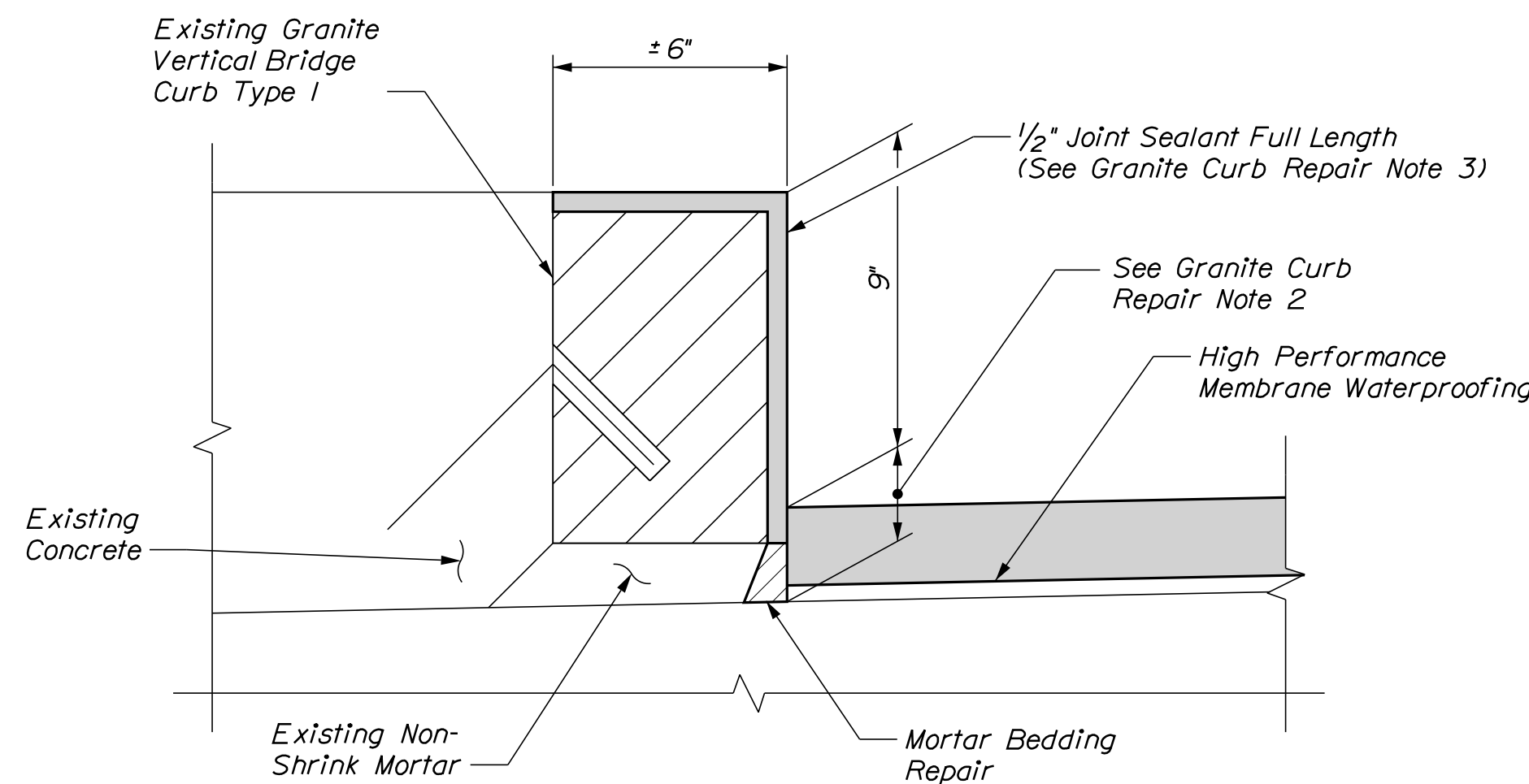
1. Joint Detail at Curb applies to all locations which are receiving a new or replacement Asphaltic Plug Joint. Asphaltic Plug Joints shall be from the MaineDOT Qualified Products List.
2. Silicone Coated and Pre-Compressed Seal shall be in accordance with Special Provision 520, Expansion Devices, Non-Modular, Silicone Coated and Pre-compressed Seal. Payment shall be incidental to Item 520.23, Asphaltic Plug Joint.
3. After the installation of the asphaltic plug joint system, The bonded Silicone Coated and Pre-Compressed Seal shall be installed in the curbs as shown on the plans and as recommended by the manufacturer.

BEARING REPAIR NOTES

1. Resetting the bearings shall be paid for under Item 523.1201, Reset Steel Bearings and all labor, equipment, and materials necessary to raise the existing bridge to accommodate this work shall be paid for under Item 524.7212, Jacking Existing Superstructure.
2. All existing dimensions and information shown on the plans are based on as-built and standard detail drawings. The Contractor shall field verify all relevant dimensions prior to submission of Jacking Plan.
3. See Special Provisions for lead paint removal requirements.
4. Bearings shall be reset prior to modifications of bridge joints.
5. The temporary support and jacking system shall be designed by the Contractor. See Special Provision 524 for additional requirements.



CURB DETAIL
(Bridge Rail not Shown for Clarity)
Scale: 3/4" = 1'-0"



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

GRANITE CURB REPAIR NOTES

1. A bead of Hot-Applied Rubberized asphalt sealer shall be applied along curb lines after installation of base course. Payment shall not be made directly but shall be considered incidental to related contract items.
2. The Contractor shall treat corners and the vertical face of curbing in accordance with Special Provision section 508.
3. 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.
4. Mortar for bedding and for joints in granite curb on bridges where required shall be an approved non-shrink mortar in accordance with Supplemental Specification 518.
5. Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.

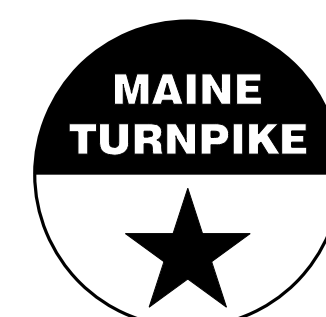
Filename: ...017_Misc_Det_01.dgn

Scale: AS NOTED

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. 2022.13

MISCELLANEOUS DETAILS

No.	Revision	By	Date

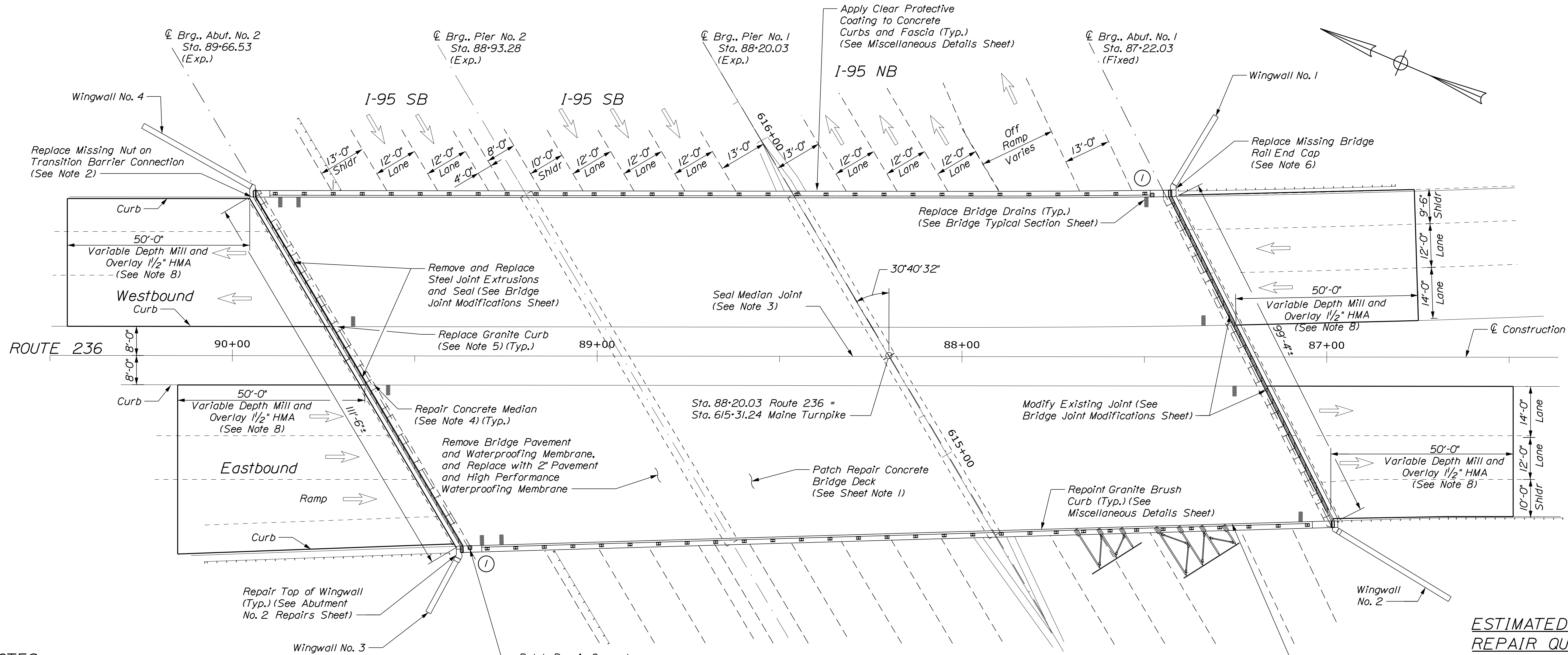
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

VHB: 55345.00
CONTRACT: 2022.13

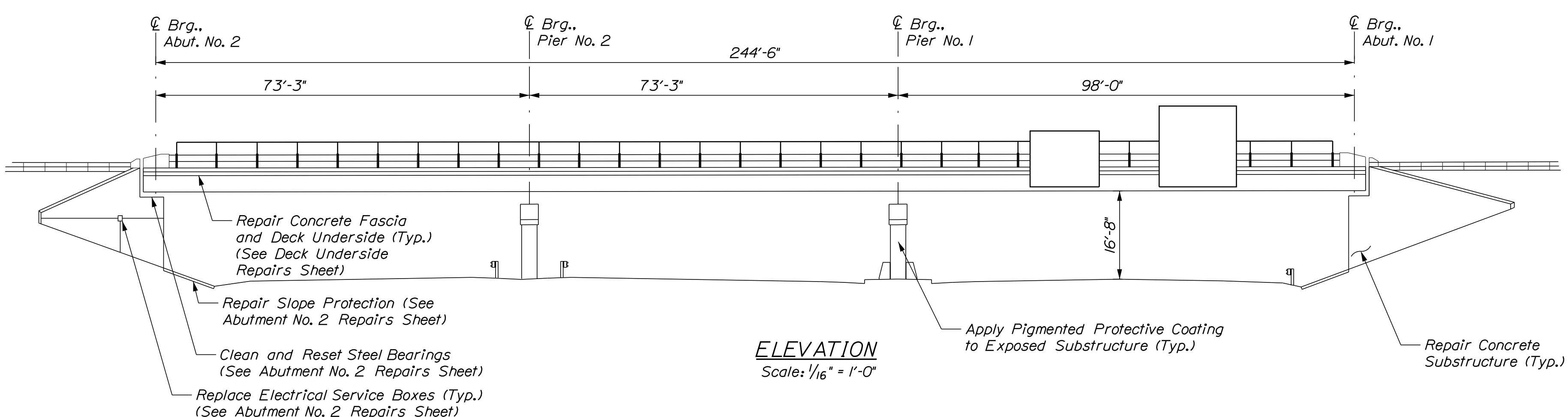
SHEET NUMBER: 17
17 OF 31

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

Date: 5/26/2022



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



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

NOTES

1. Transition barrier concrete repairs shall be paid for under Item 518.10, Abutment Repairs.
2. Replace missing nut on transition barrier as directed by the Resident. Labor and materials shall be incidental to the related Contract Items.
3. Replace Median Joint Seal with Silicone Coated and Pre-Compressed Seal. This work shall be paid for under Item 520.234, Expansion Device-Silicone Coated and Pre-Compressed Seal.
4. Patch repair spalled portion of the concrete median. This work shall be paid for under item 518.82 Median Concrete Deck Repairs.
5. Replace portion of missing or damaged granite curb as directed by the Resident. This work shall be paid for under Item 609.11 Vertical Curb Type I.
6. Replace missing bridge rail end cap as directed by the Resident. This work shall be incidental to the related Contract Items.
7. Removing previous sign bolts and patch repairing curb shall be incidental to Item 518.80, Partial Depth Concrete Deck Repairs.
8. Mill variable depth and pave 1.5" HMA. Depth of Mill shall be based on string-line measurements to achieve a smooth transition between existing and approach pavement.

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Partial Depth Concrete Deck Repairs	640*
* Assumes 3% of the Deck will require Partial Depth Concrete Repairs	
Transition Barrier Repairs	5**
** Includes 3 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

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

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MEB	5/26/22	Checked
Drawn	DPD	5/26/22	In Charge of

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

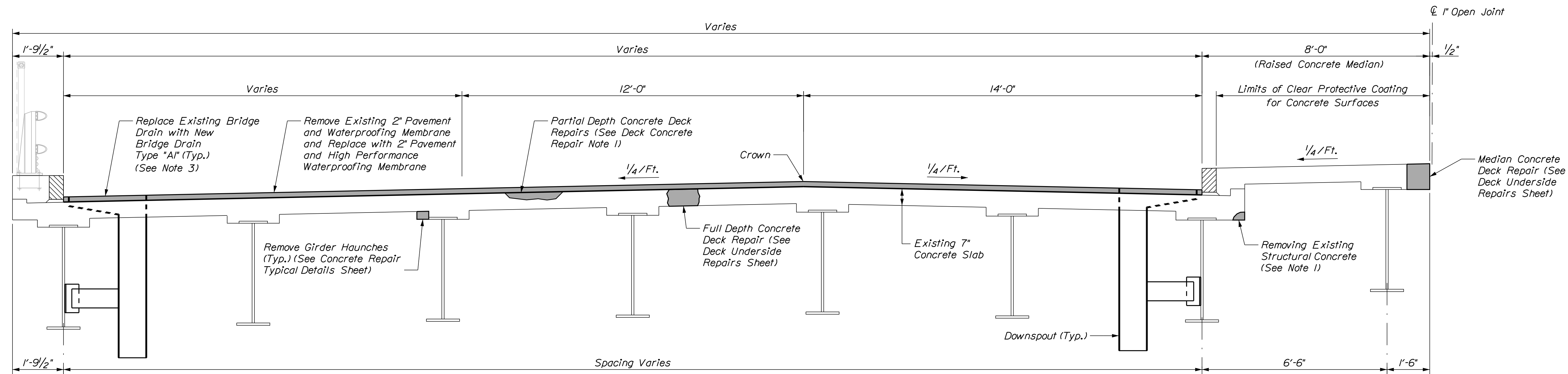
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
GENERAL PLAN AND ELEVATION

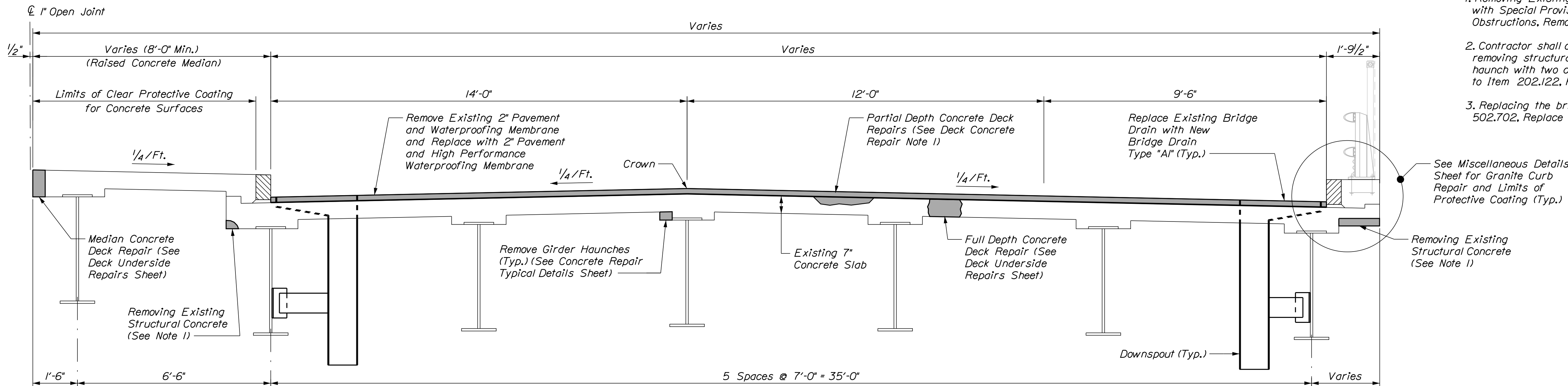
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: **18**
18 OF 31

Date: 5/26/2022



SUPERSTRUCTURE TYPICAL SECTION - EASTBOUND



SUPERSTRUCTURE TYPICAL SECTION - WESTBOUND

NOTES

1. Removing Existing Structural Concrete shall be in accordance with Special Provision 202, Removing Structures and Obstructions, Removing Existing Structural Concrete.
2. Contractor shall coat any exposed reinforcing steel after removing structural concrete at the fascias and median haunch with two coats of epoxy resin. Work shall be incidental to Item 202.122, Removing Existing Structural Concrete.
3. Replacing the bridge drains shall be paid for under Item 502.702, Replace Bridge Drain (Type A1).

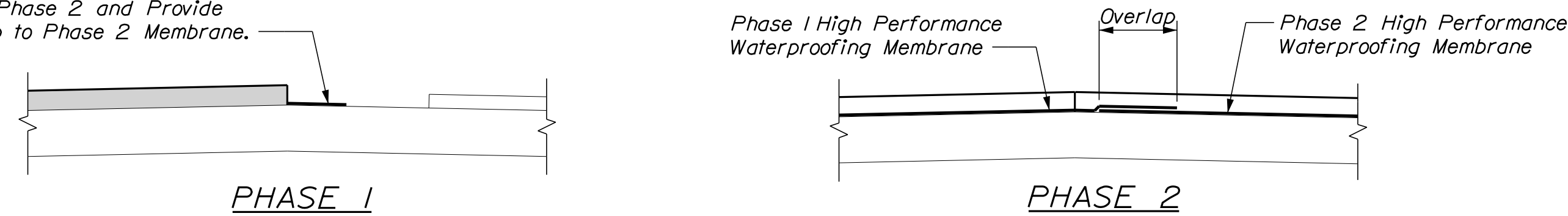
DECK CONCRETE REPAIR NOTE

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 518.80, Partial Depth Concrete Deck Repairs and Item 518.81, Full Depth Concrete Deck Repairs.

MEMBRANE OVERLAP NOTE

1. If the Contractor elects to complete the work in 2 non-consecutive phases, the Contractor shall propose a method to protect the Phase 1 High Performance Waterproofing Membrane extension and overlap it to the Phase 2 High Performance Waterproofing Membrane. Details of the membrane overlap method shall be submitted to the Resident for approval.

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

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

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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



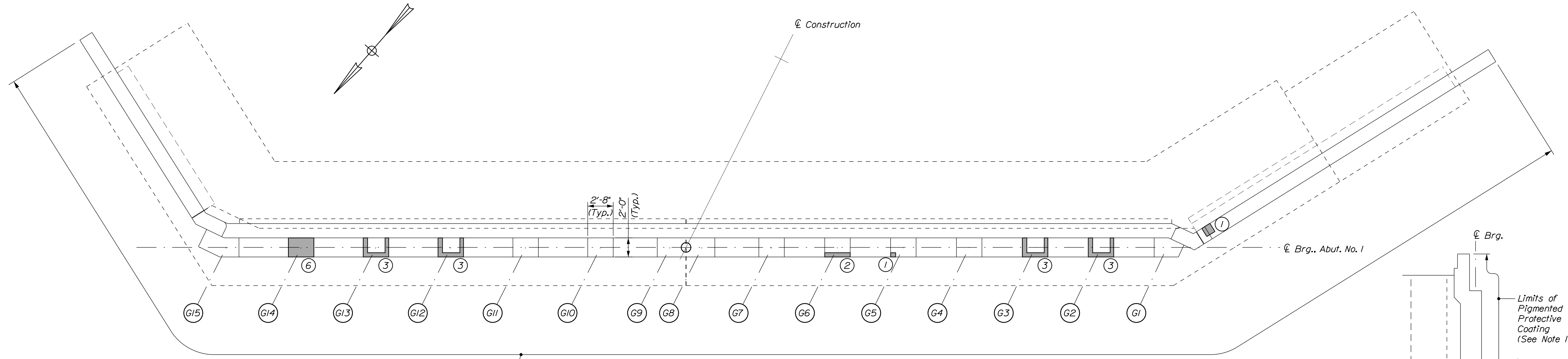
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

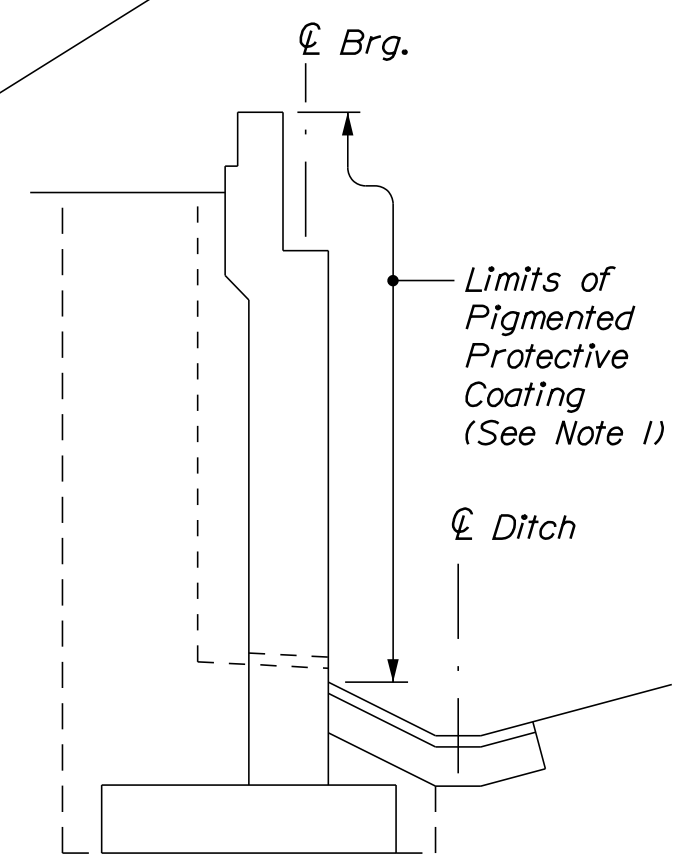
MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
BRIDGE TYPICAL SECTION

VHB: 55345.00
SHEET NUMBER: 19
CONTRACT: 2022.13
19 OF 31

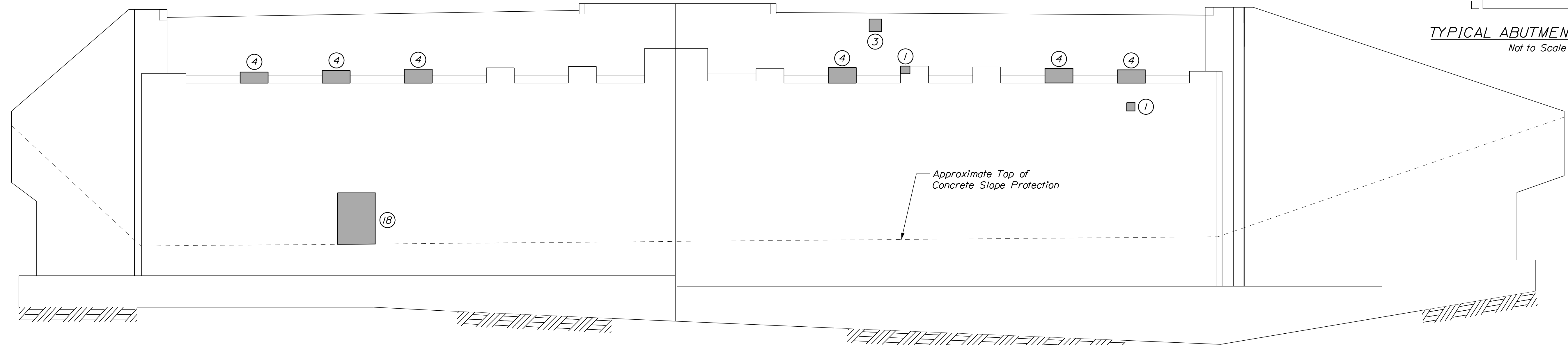
Date: 5/26/2022



PLAN
Scale: 3/16" = 1'-0"



TYPICAL ABUTMENT SECTION
Not to Scale



ELEVATION
Scale: 3/16" = 1'-0"

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

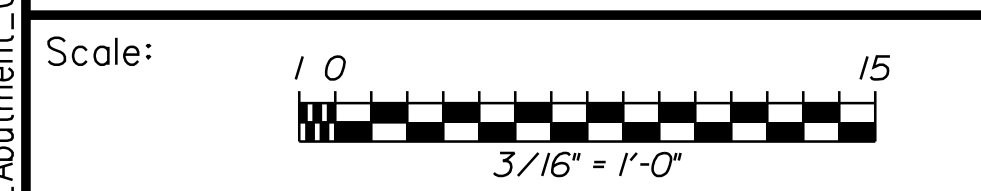
ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Surface Abutment Repairs 85*
*Includes 16 S.F. Additional Repair Quantity As A Contingency


SHEET NOTE

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

Filename: ... \020_Abutment_01.dgn



Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

No.	Revision	By	Date

	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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

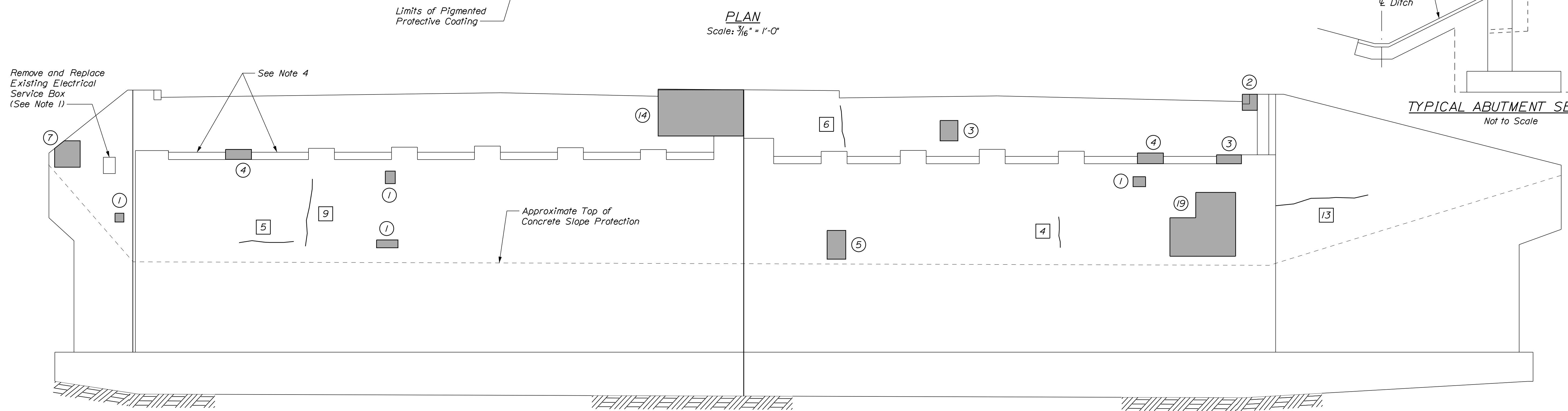
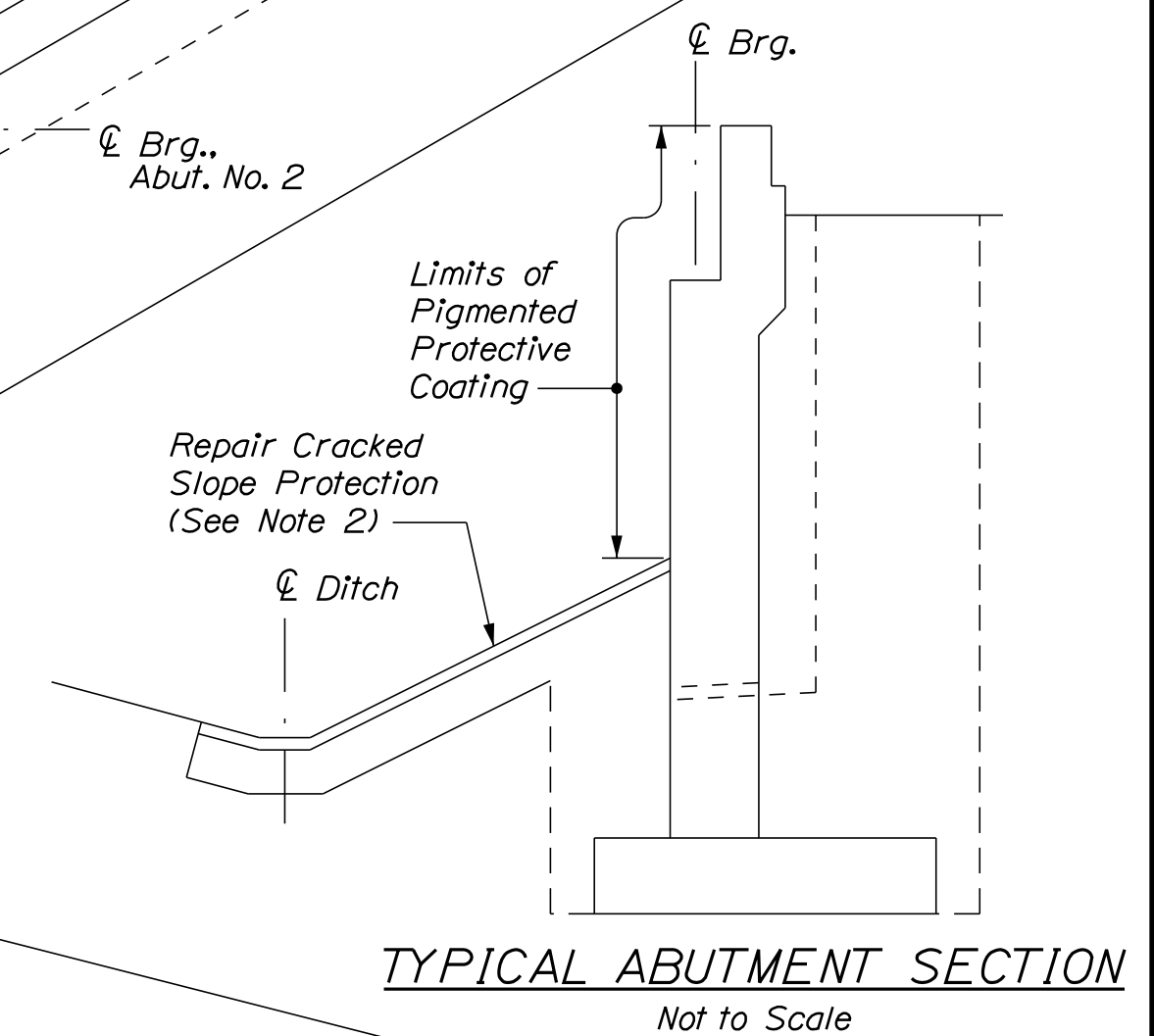
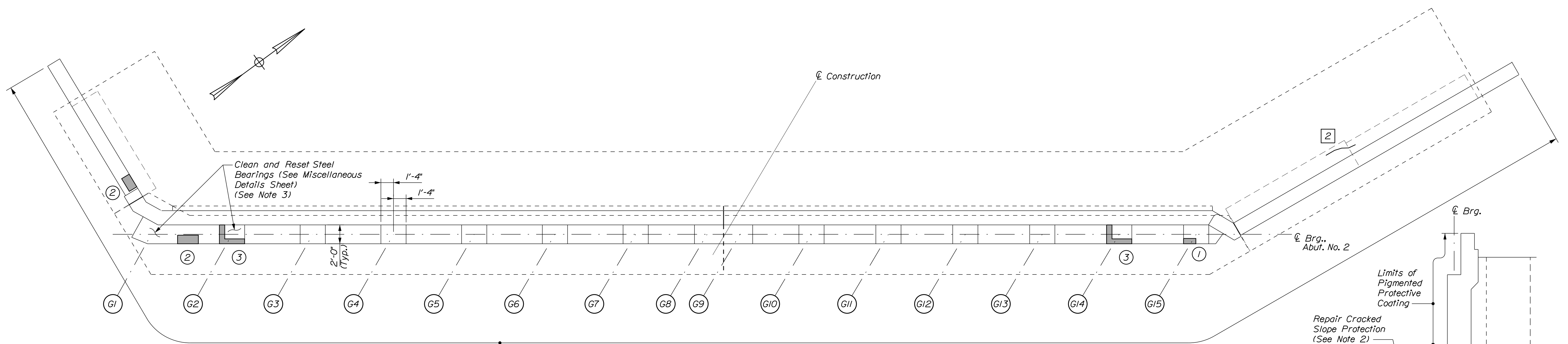
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
ABUTMENT NO. 1 REPAIRS

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 20
20 OF 31

Date: 5/26/2022



ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)

Surface Abutment Repairs	95*
*Includes 19 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	45**
**Includes 6 L.F. Additional Repair Quantity As A Contingency	

NOTES

- All electrical work associated with the replacement of the electrical junction box shall be incidental to Item 626.15, Electrical Service Box.
- Repair Slope Protection as directed by the Resident. Slope Protection repair material shall be in accordance with Supplemental Specification 518. This work shall be paid for under Item 518.92, Slope Protection Repair.
- All labor, equipment, and materials necessary to jack and reset the bearings shall be paid for under Item 524.7212 Jacking Existing Superstructure (RT 236) and Item 523.1201 Reset Steel Bearings respectively. See Miscellaneous Details Sheet for information on resetting the bearings.
- The Contractor may chip out flat areas on the bridge seat to support the temporary jacking system required to reset the bearings. If the Contractor elects to create a flat area on the bridge seat, the bridge seat shall be repaired to its original configuration in accordance with Supplemental Specification 518. All costs for removal and repair of concrete on the bridge seat shall be considered incidental to Item 524.7212, Jacking Existing Superstructure (Route 236).

SHEET NOTE

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

KEY

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

Filename: ...021_Abutment_02.dgn



Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	By	Date	
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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

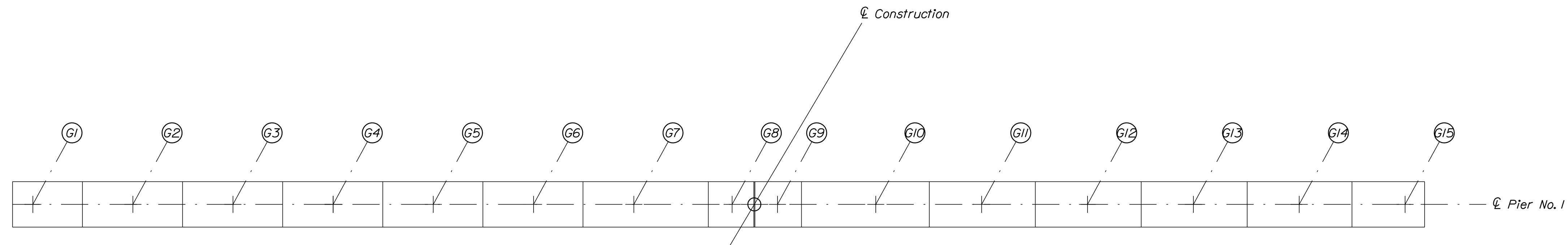
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
ABUTMENT NO. 2 REPAIRS

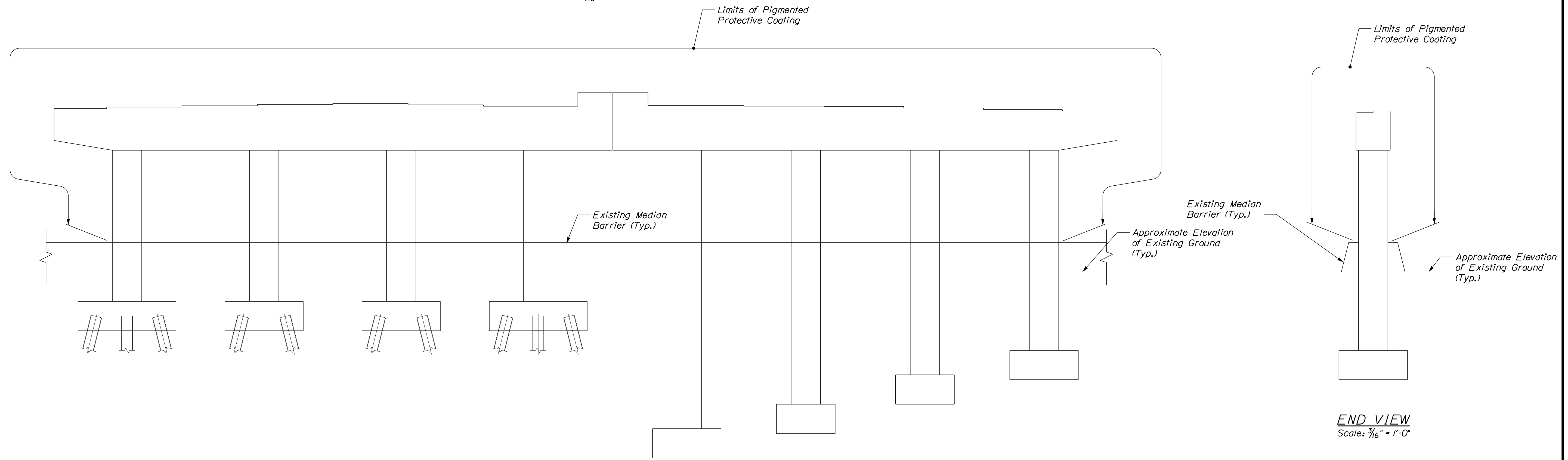
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 21
21 OF 31

Date: 5/26/2022



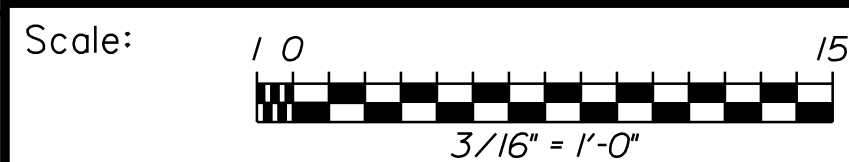
PLAN
Scale: 3/16" = 1'-0"



EAST ELEVATION
Scale: 3/16" = 1'-0"

END VIEW
Scale: 3/16" = 1'-0"

Filename: ... \022_Pier_01.dgn



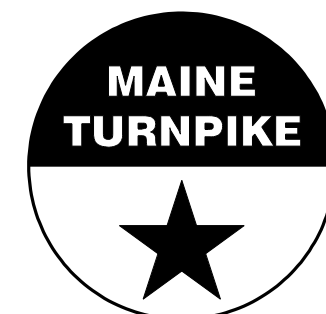
No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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**

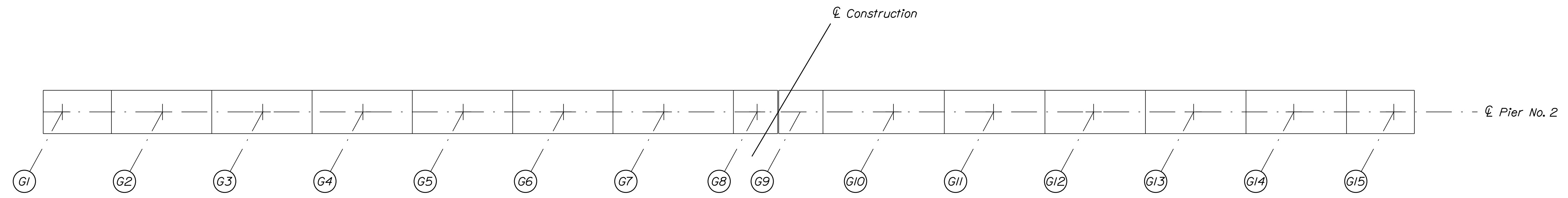
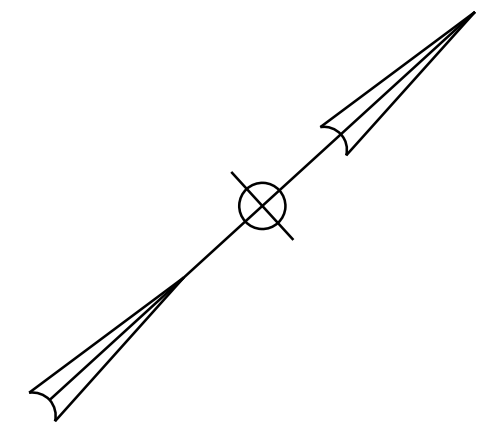
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
PIER NO. 1 REPAIRS

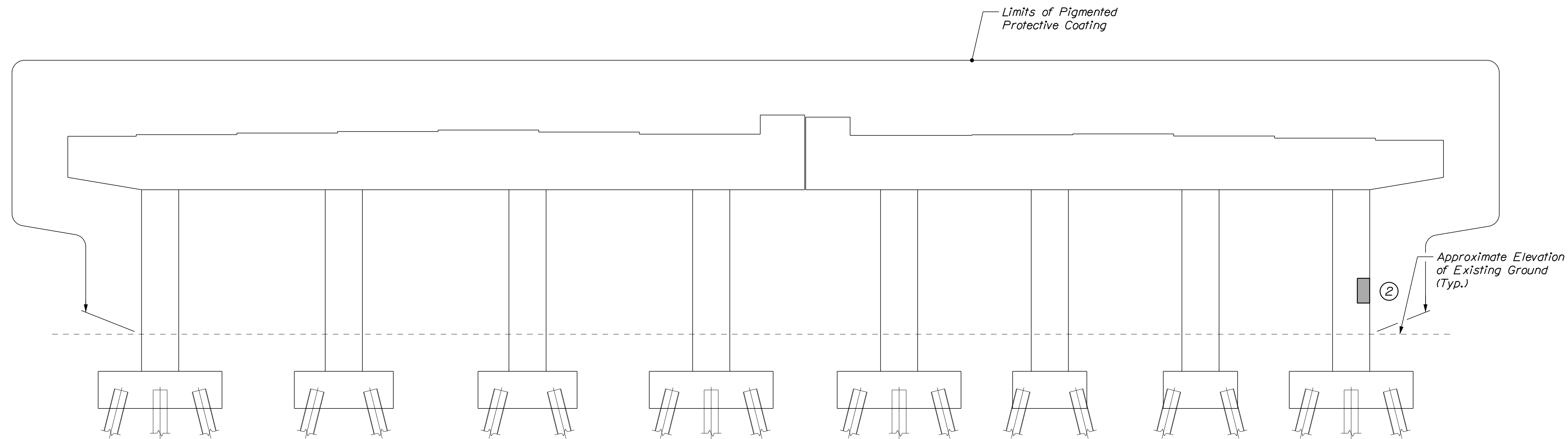
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 22
22 OF 31

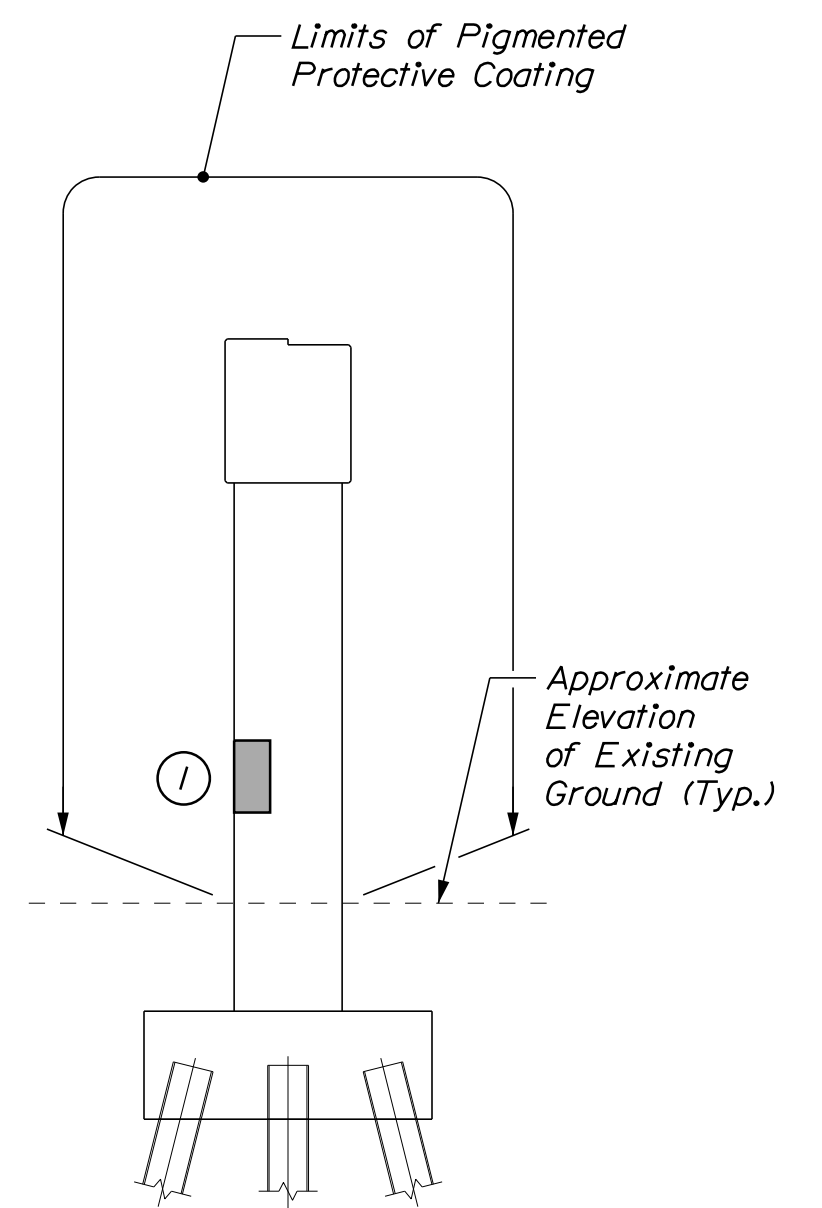
Date: 5/26/2022



PLAN
Scale: 3/16" = 1'-0"



EAST ELEVATION
Scale: 3/16" = 1'-0"



END VIEW
Scale: 3/16" = 1'-0"

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

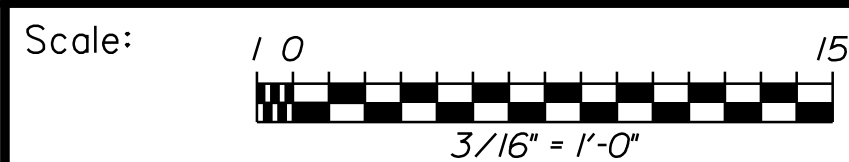
Surface Pier Repairs 5*
* Includes 2 S.F. Additional Repair Quantity As A Contingency

SHEET NOTE

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

KEY

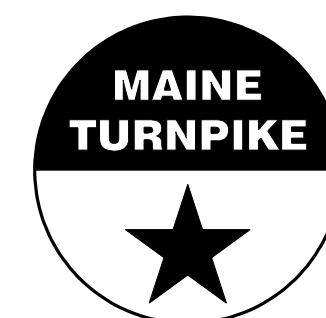
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



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. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
PIER NO. 2 REPAIRS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

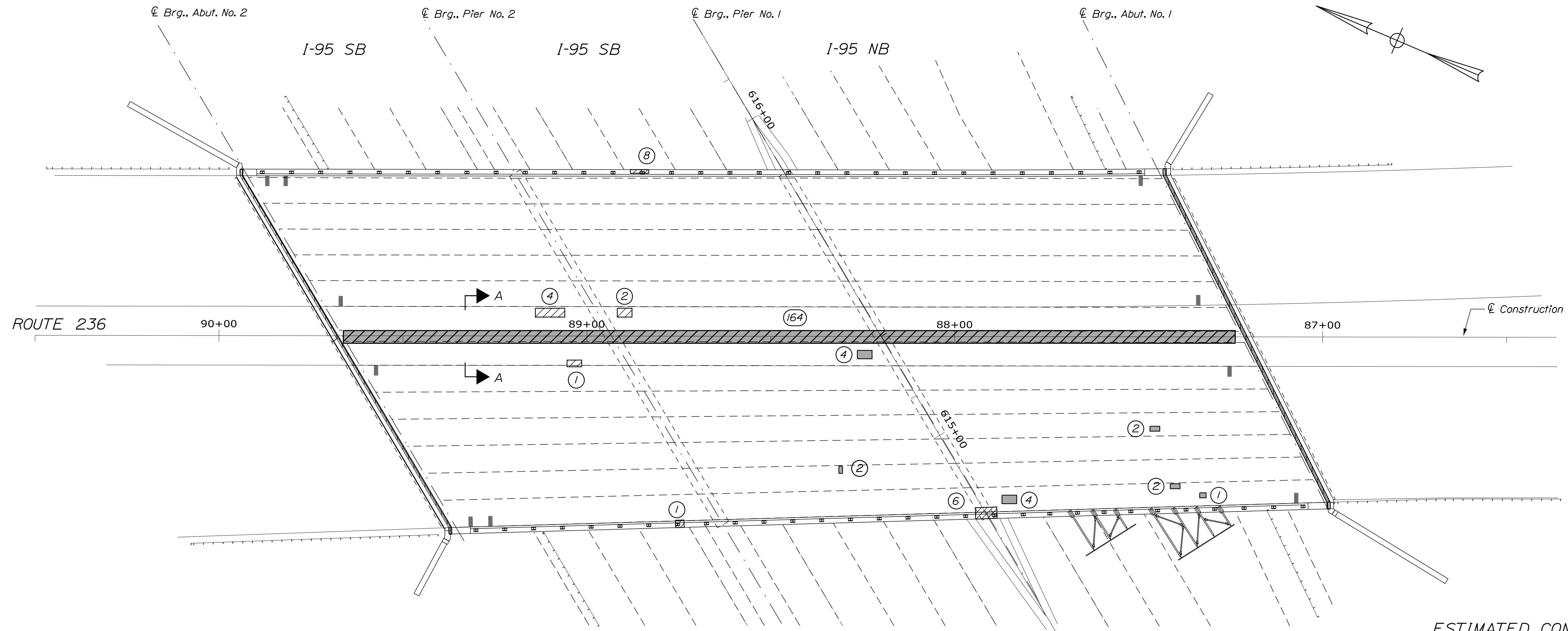
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

VHB: 55345.00
CONTRACT: 2022.13

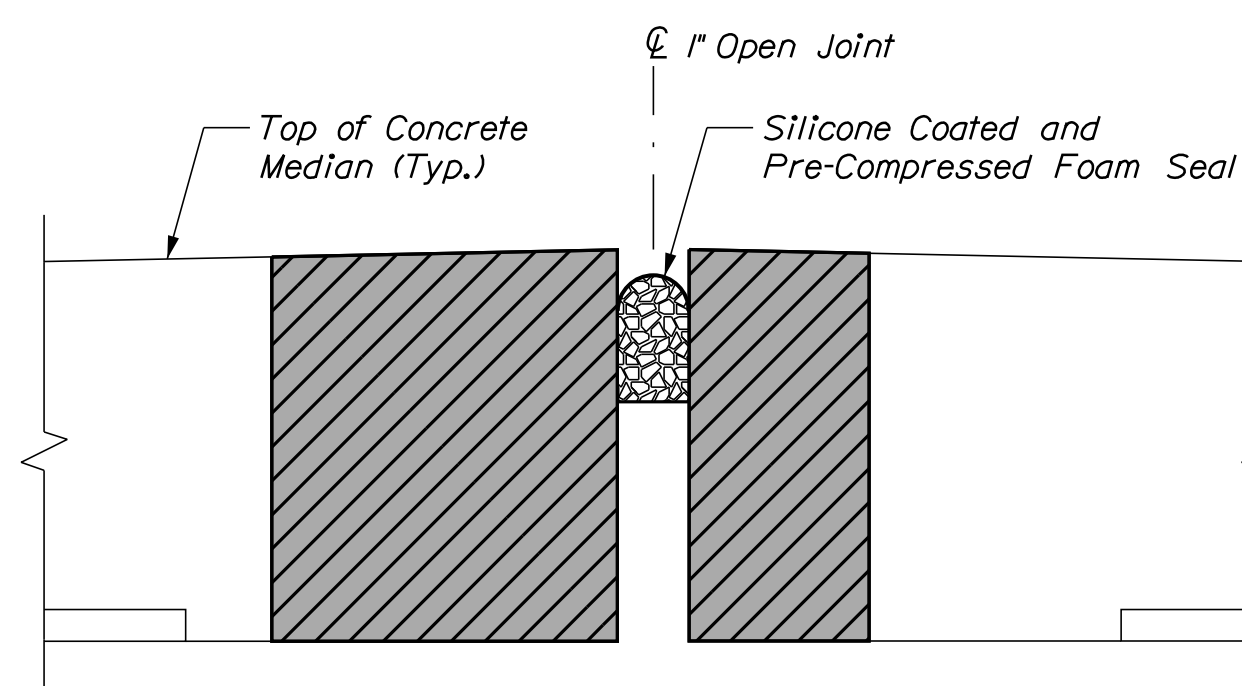
SHEET NUMBER: 23
23 OF 31

Filename: ... \023_Pier_02.dwg

Date: 5/26/2022



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



SECTION A-A
Not to Scale

KEY

- Limit of Concrete Removal
- Limit of Full Depth Concrete Deck Repair
- Limit of Median Concrete Deck Repair
- Square Footage of Repair

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Full Depth Repairs	20*
* Includes 11 S.F. Additional Repair Quantity As A Contingency	
Concrete Removal and Steel Coating	50**
** Includes 28 S.F. Additional Removal Quantity As A Contingency	
Median Concrete Deck Repairs	170***
*** Includes 6 S.F. Additional Repair Quantity As A Contingency	

NOTE

1. Contractor shall coat all exposed reinforcing steel after removing structural concrete at the fascias and median haunch. Work shall be incidental to Item 202.122, Removing Existing Structural Concrete.

SHEET NOTE

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

Filename: ...024_Deck_01.dgn

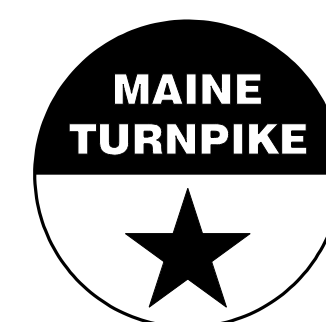


No.	Revision	By	Date

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. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
DECK UNDERSIDE REPAIRS

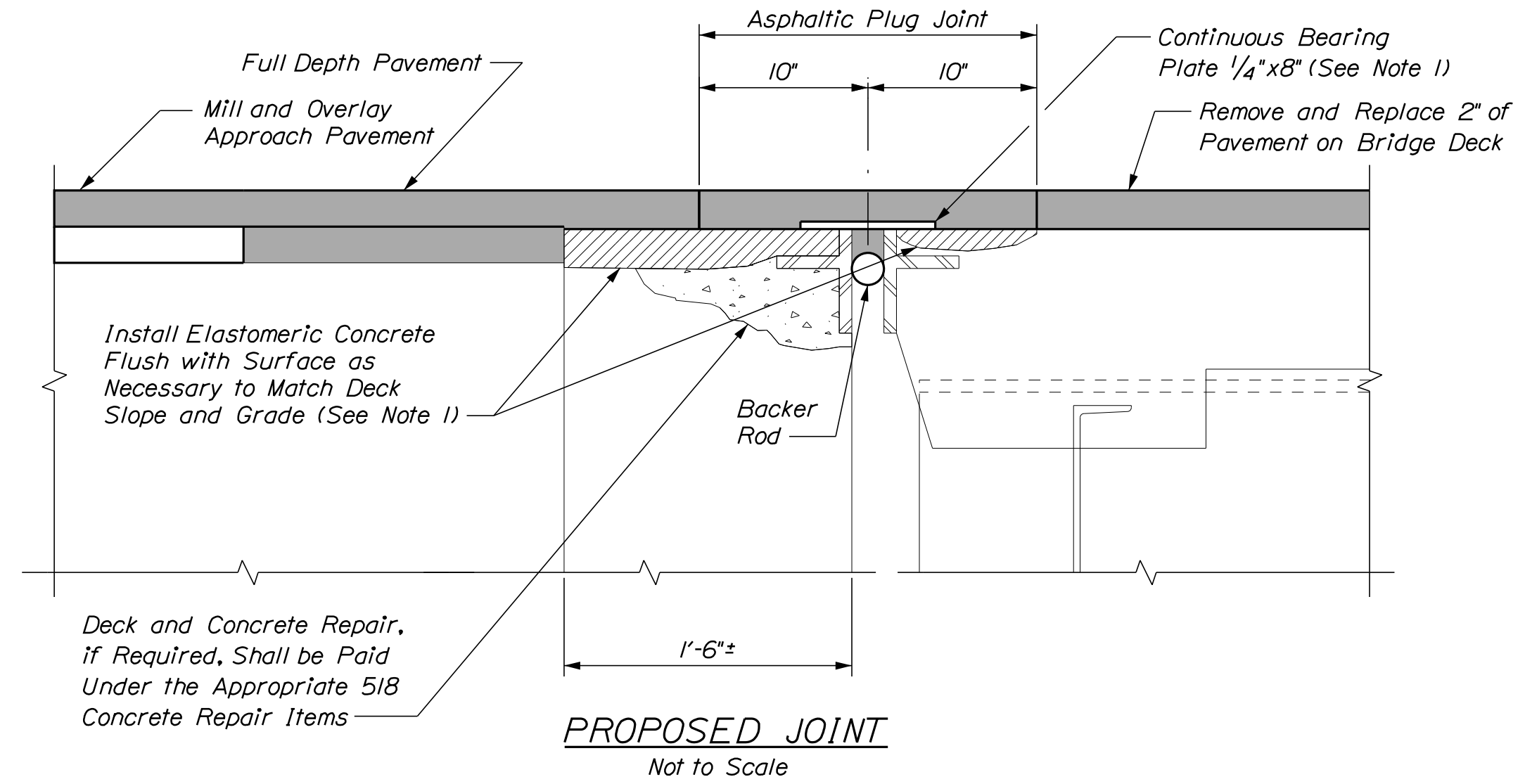
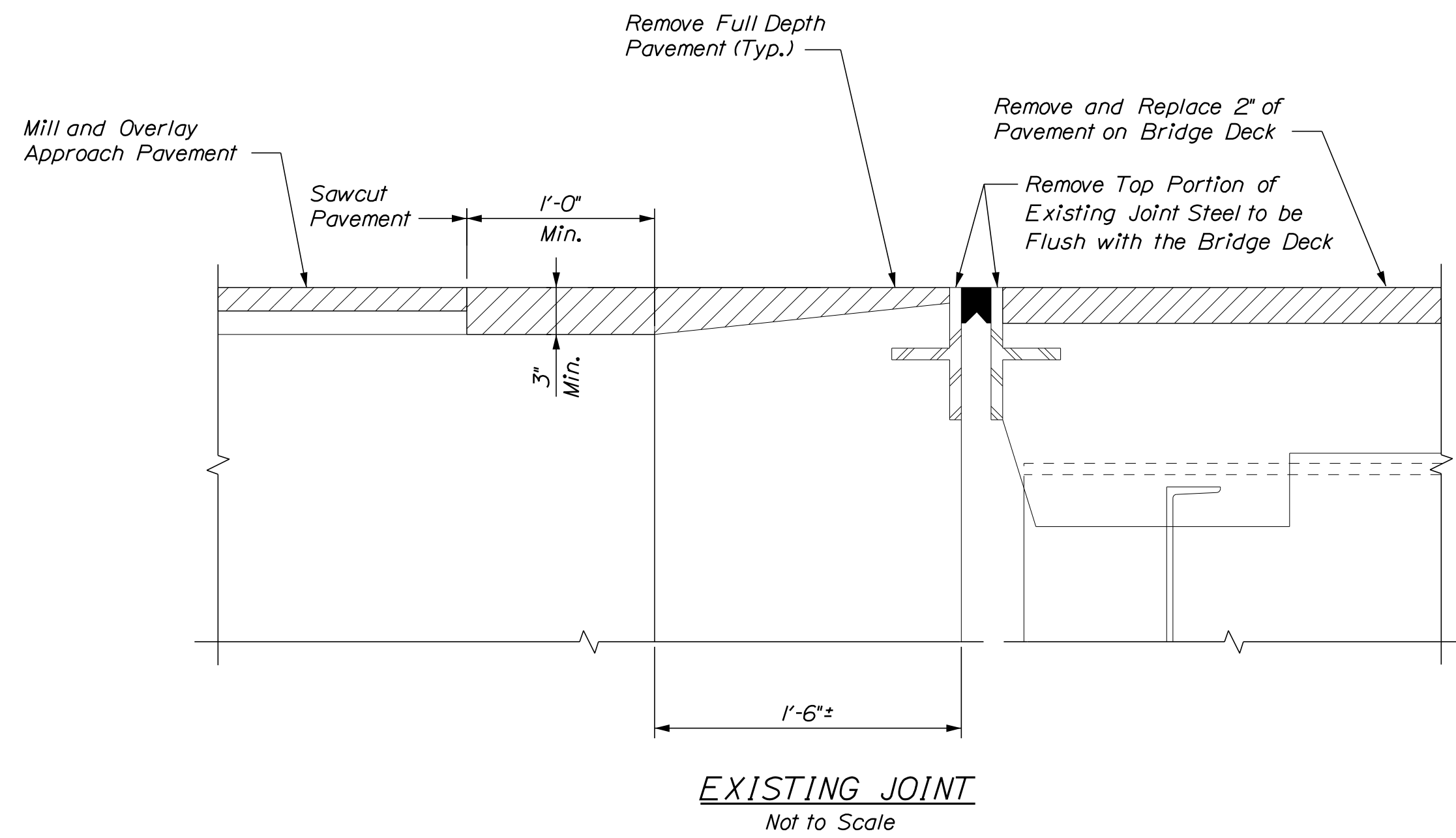
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: **24**
24 OF 31

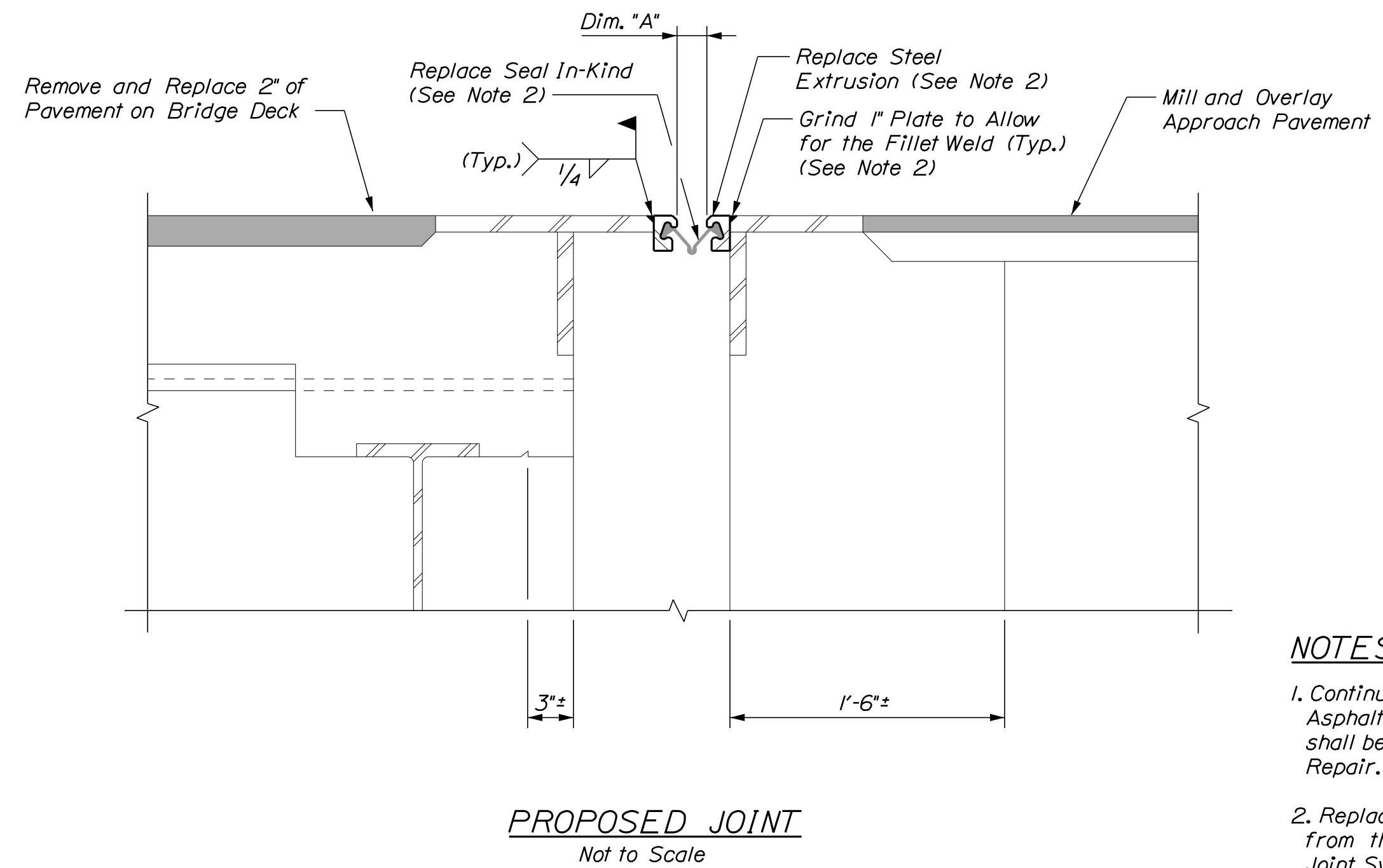
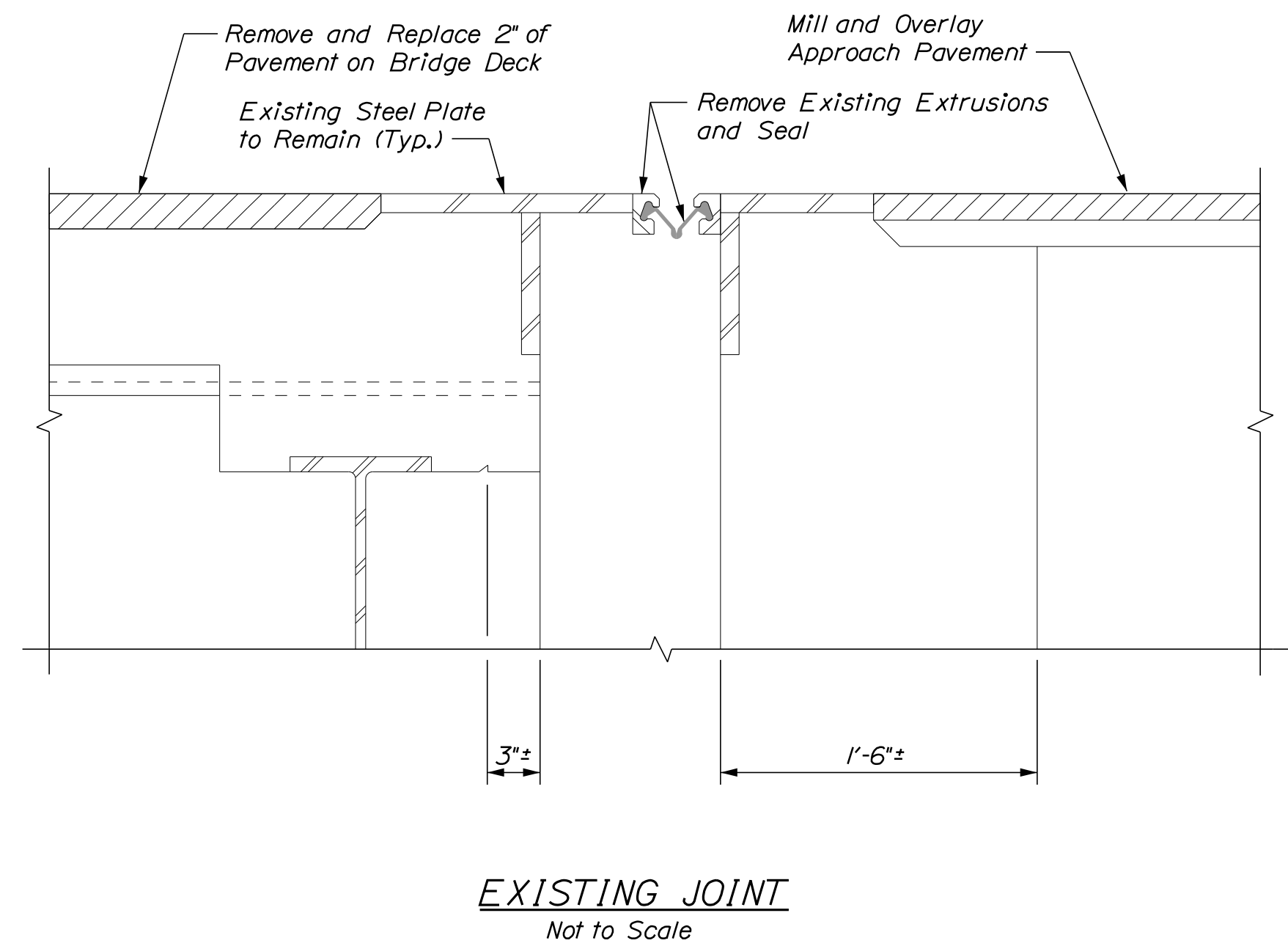
Date: 5/26/2022



BRIDGE JOINT MODIFICATION
(Abutment No. 1)

AS-BUILT JOINT INSTALLATION TABLE FOR ABUTMENT NO. 2

DIM. "A"	Temp	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
Opening		2 ⁵ / ₁₆ "	2 ³ / ₄ "	2 ⁹ / ₁₆ "	2 ³ / ₈ "	2 ³ / ₁₆ "	2"	1 ¹³ / ₁₆ "	1 ⁵ / ₈ "	1 ⁷ / ₁₆ "	1 ¹ / ₄ "	1 ¹ / ₁₆ "



BRIDGE JOINT MODIFICATION
(Abutment No. 2)

NOTES

- Continuous Bearing Plate shall be incidental to Item 520.23, Asphaltic Plug Joint (Route 236). Elastomeric Concrete Header shall be paid under Item 518.864, Elastomeric Concrete Header Repair.
- Replace Steel Extrusions and Joint Seal with a similar system from the MaineDOT Qualified Products List - Bridge Strip Seal Joint Systems. This work shall be paid for under Item 520.50, Remove and Replace Glad Seal (RT 236).


SHEET NOTE

1. See Miscellaneous Details sheet for Joint Detail at Curb for the Asphaltic Plug Joint treatment at the curb.

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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

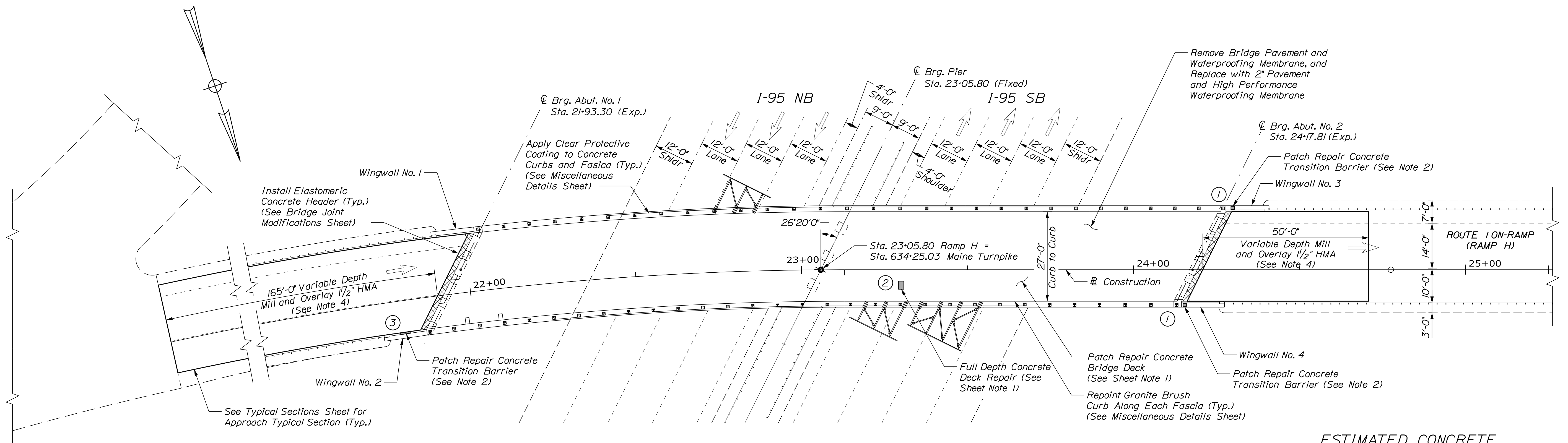
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 236 UNDERPASS
AT MM 1.25 IN YORK, ME
BRIDGE JOINT MODIFICATIONS

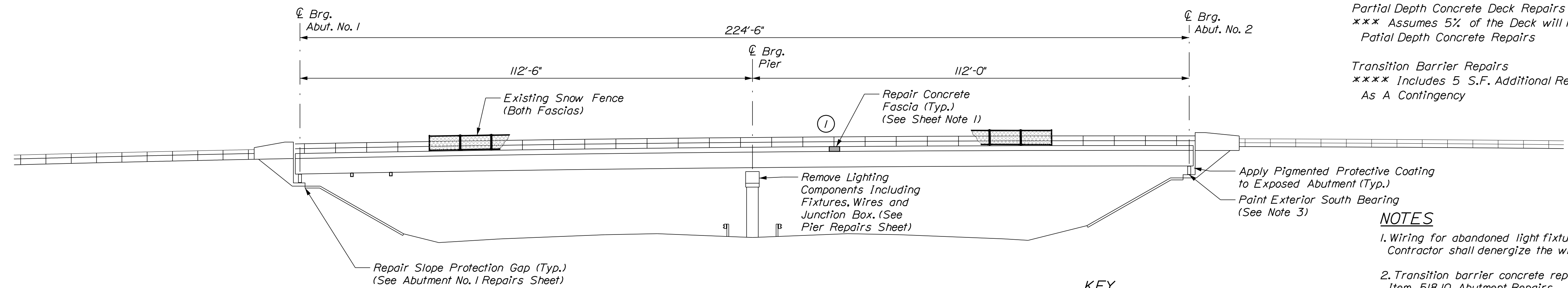
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: 25
25 OF 31

Date: 5/26/2022



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



ELEVATION
(Bridge Mounted Signs Not Shown for Clarity)
Scale 1/16" = 1'-0"

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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Full Depth Concrete Deck Repair	10*
* Includes 8 S.F. Additional Repair Quantity As A Contingency	
Fascia Surface Repairs	10**
** Includes 9 S.F. Additional Repair Quantity As A Contingency	
Partial Depth Concrete Deck Repairs	305***
*** Assumes 5% of the Deck will require Partial Depth Concrete Repairs	
Transition Barrier Repairs	10****
**** Includes 5 S.F. Additional Repair Quantity As A Contingency	

- NOTES**
1. Wiring for abandoned light fixtures is energized. The Contractor shall deenergize the wires prior to removal.
 2. Transition barrier concrete repairs shall be paid for under Item 518.10, Abutment Repairs.
 3. All labor, equipment, and materials necessary to clean and paint the bearing shall be paid for under Item 506.14, Field Painting of Existing Structural Steel (Ramp H).
 4. Mill variable depth and pave 1.5" HMA. Depth of Mill shall be based on string-line measurements to achieve a smooth transition between existing and approach pavement.

SHEET NOTE

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

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 1 (RAMP H) UNDERPASS
AT MM 1.60 IN YORK, ME
GENERAL PLAN AND ELEVATION

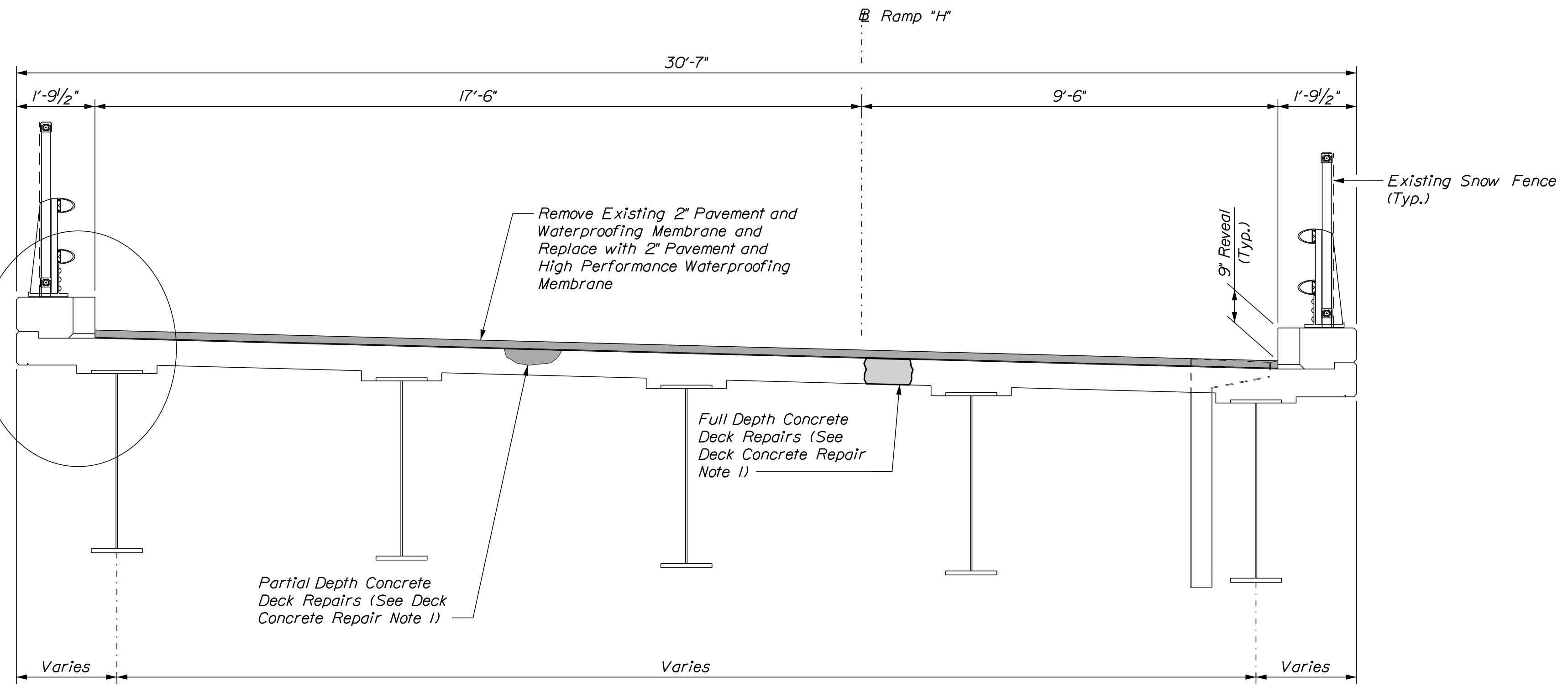
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: **26**
26 OF 31

Filename: ... \026_plan_02.dgn

Date: 5/26/2022

See Miscellaneous Details Sheet for Granite Curb Repair and Limits of Protective Coating (Typ.)



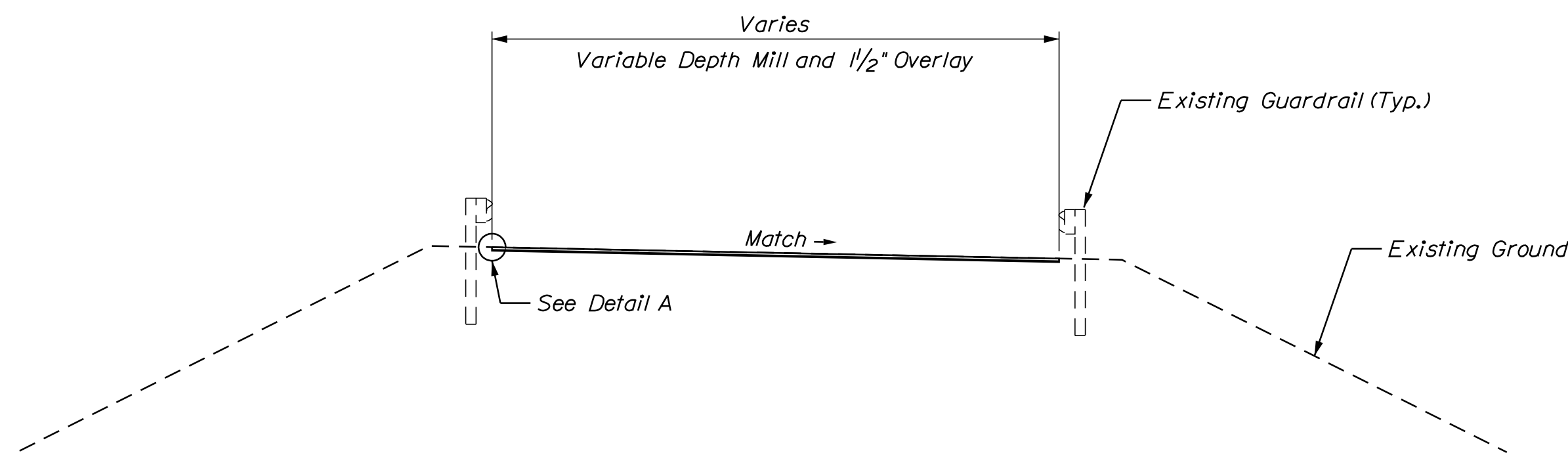
SUPERSTRUCTURE TYPICAL SECTION
Scale: 1/2" = 1'-0"

DECK CONCRETE REPAIR NOTE

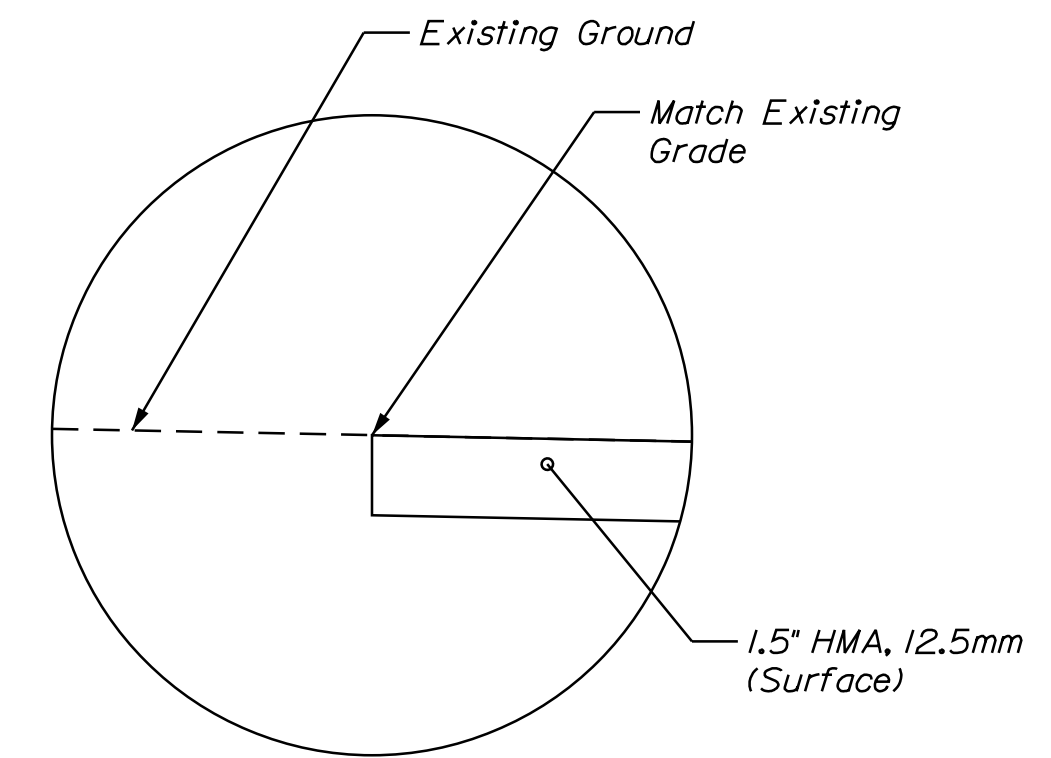
1. Prior to the start of deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.80, Partial Depth Concrete Deck Repairs and Item 518.81, Full Depth Concrete Deck Repairs.

SHEET NOTE

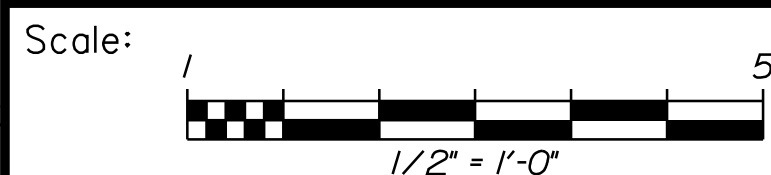
1. For Concrete Repair Notes and Details see Concrete Repair Typical Sections Sheet.



MILL AND OVERLAY TYPICAL SECTION
Not to Scale




DETAIL A
Not to Scale



No.	Revision	By	Date

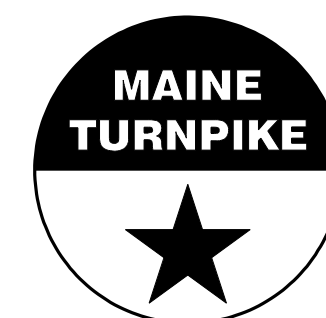
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

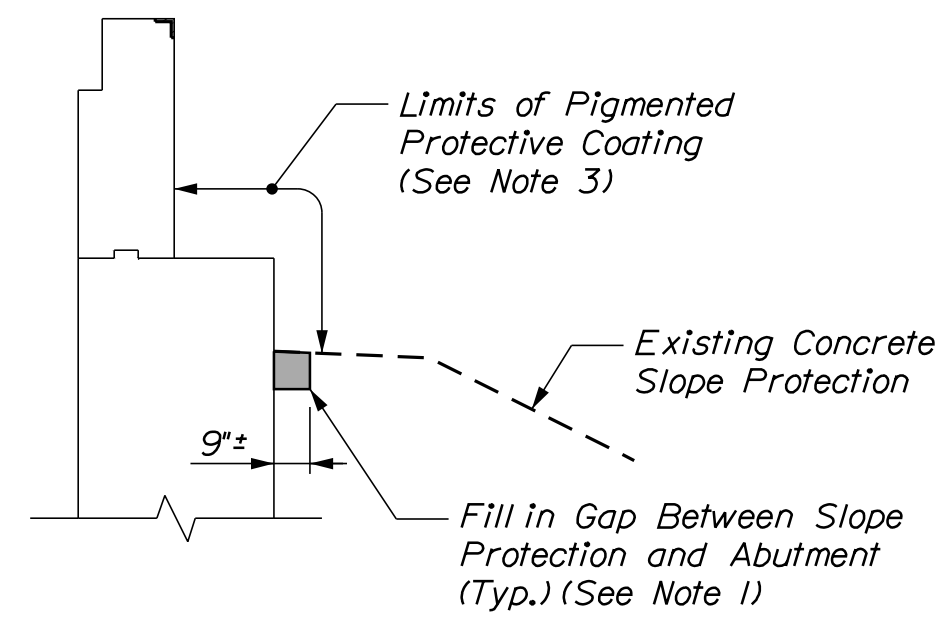
MTA PROJECT NO. 2022.13
ROUTE 1 (RAMP H) UNDERPASS
AT MM 1.60 IN YORK, ME
TYPICAL SECTIONS

VHB: 55345.00
CONTRACT: 2022.13

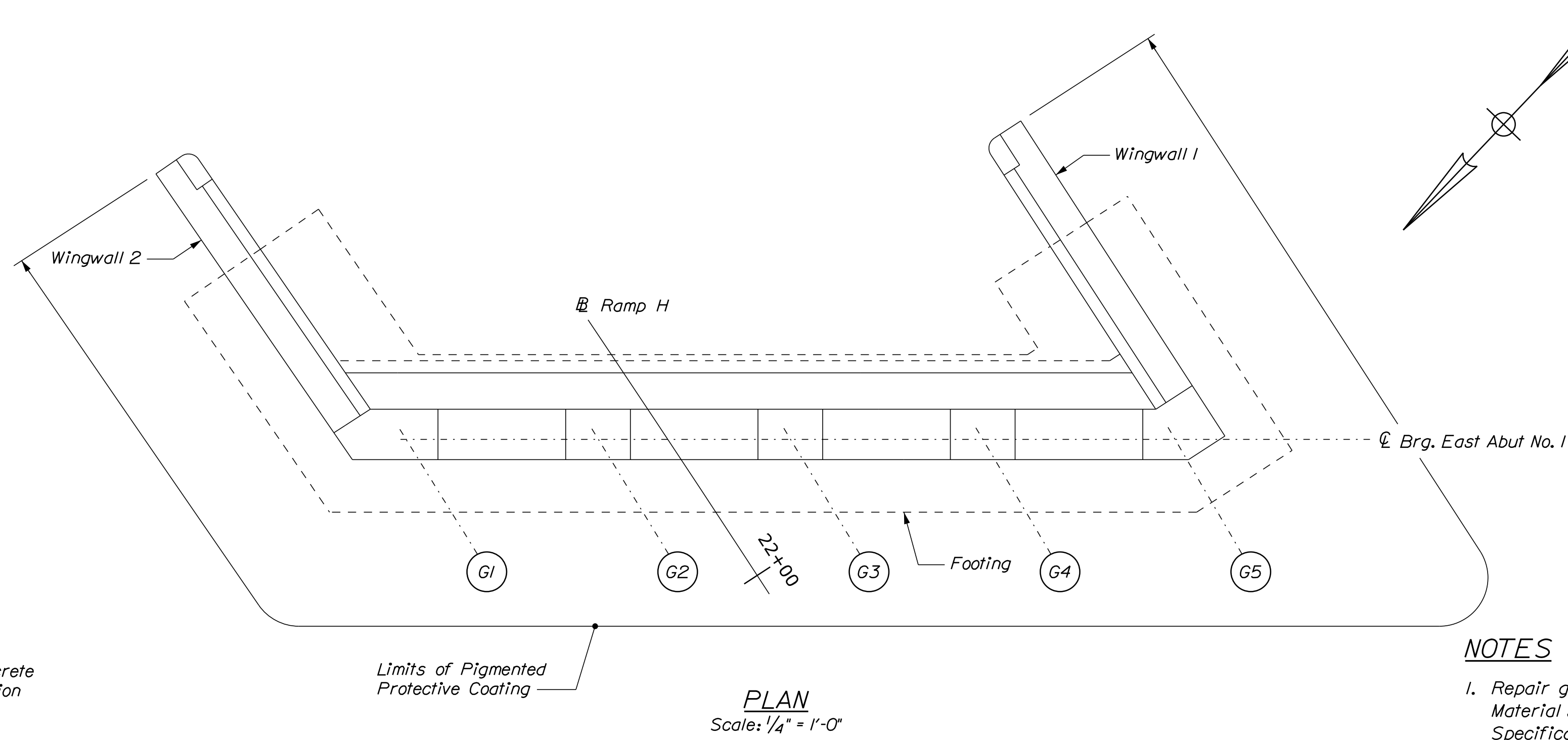
SHEET NUMBER: 27
27 OF 31

Filename: ...027_BI Typ_1.dgn

Date: 5/26/2022



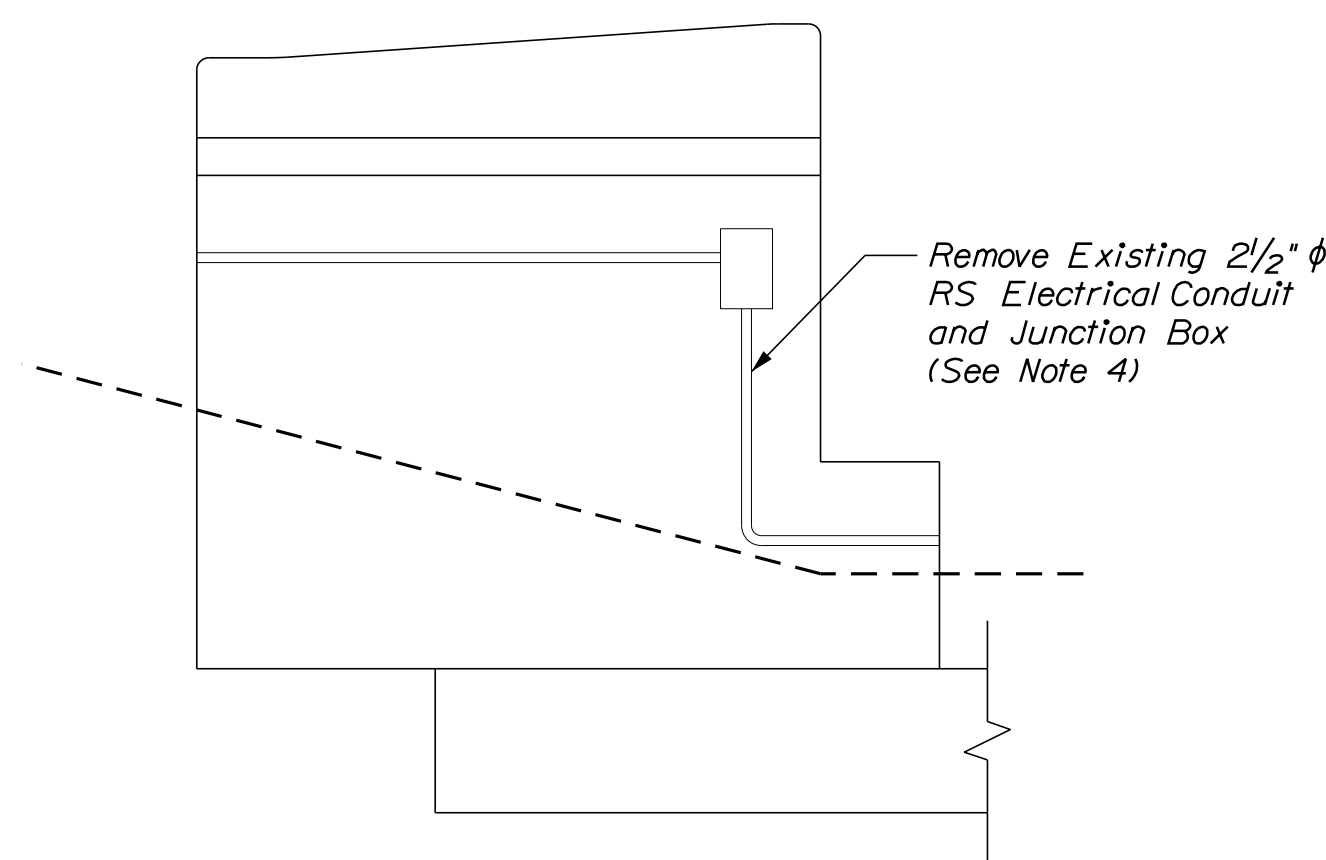
TYPICAL ABUTMENT SECTION
Not to Scale



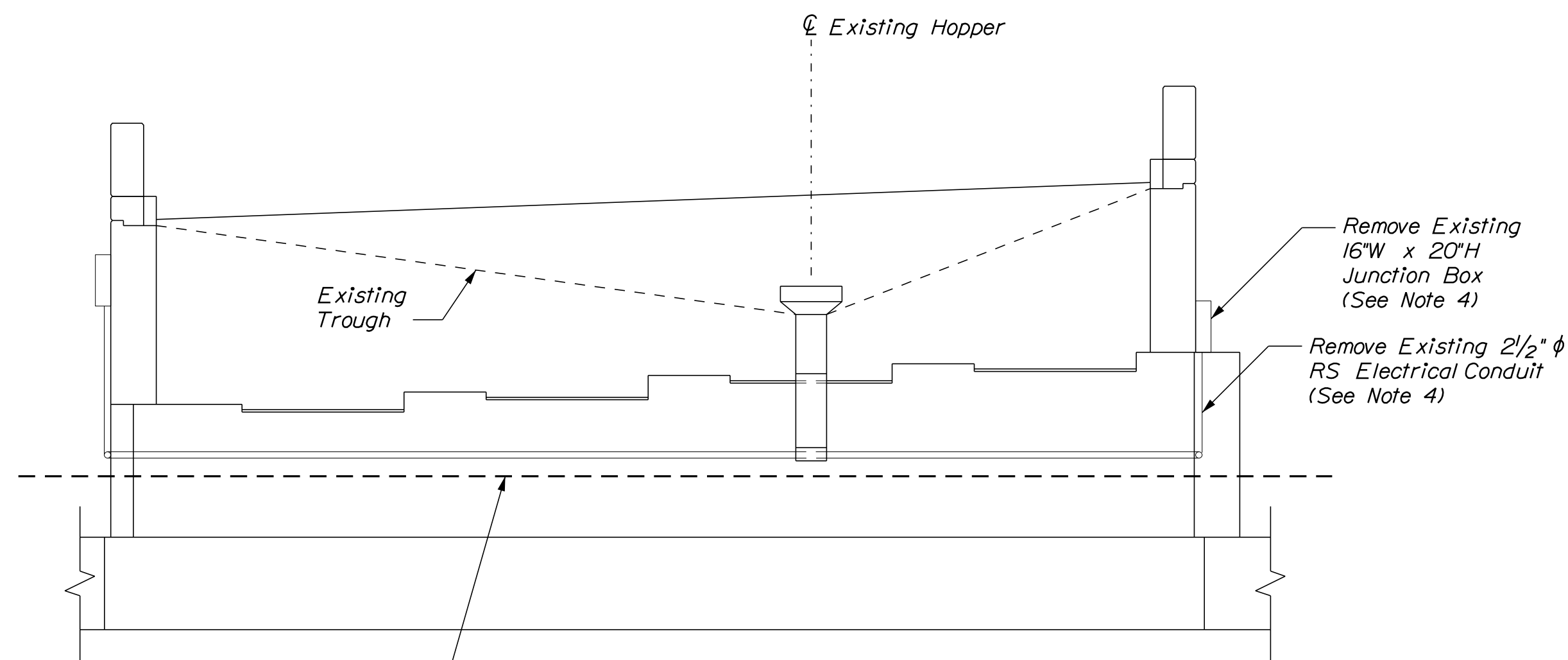
PLAN
Scale: 1/4" = 1'-0"

NOTES

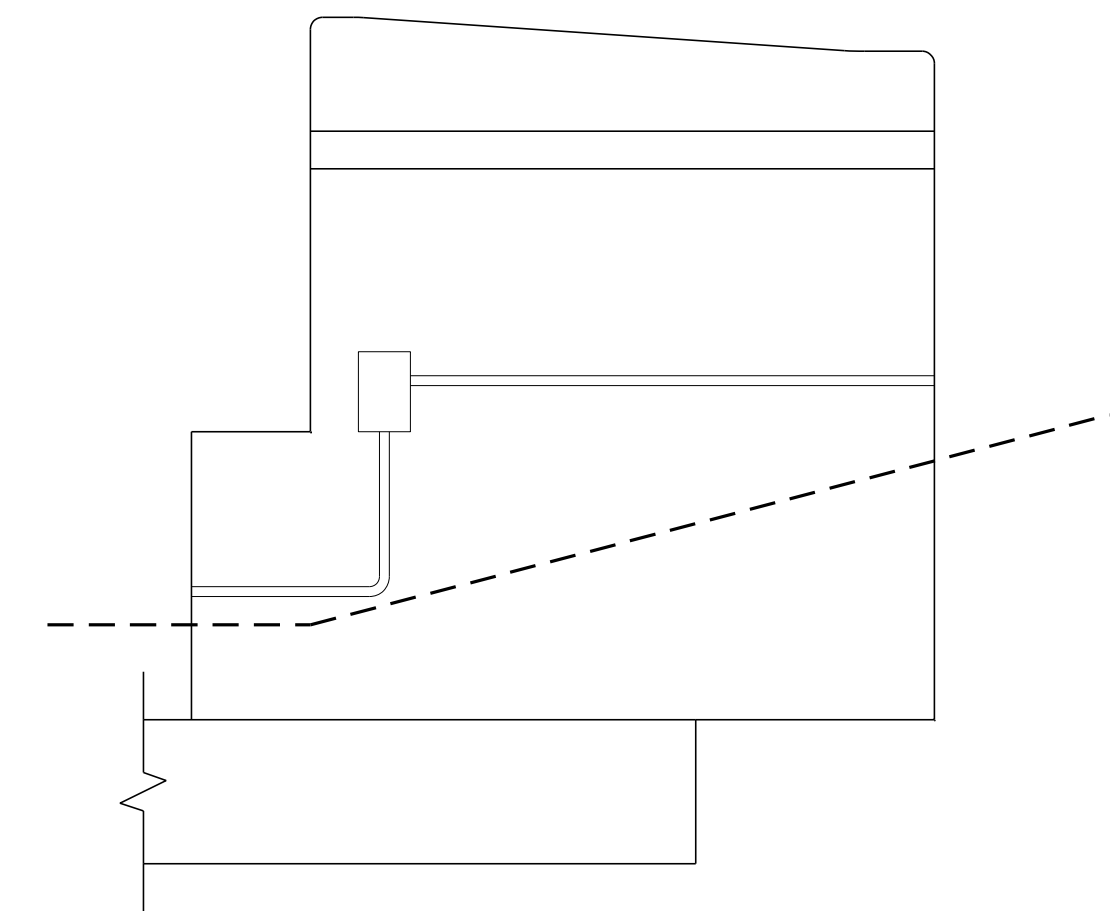
1. Repair gap between slope protection and abutment as directed by the Resident. Material shall be a non-emergency material in accordance with Supplemental Specification 518.
2. The Contractor shall flush clean existing trough as directed by the Resident. This work shall be incidental to the related contract items.
3. The Contractor shall remove the existing protective coating prior to applying new coating. Payment for the removal of the existing coating shall be incidental to Item 515.201 Pigmented Protective Coating for Concrete Surfaces.
4. Removal of the existing junction boxes and electrical conduit shall be paid for under Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.
5. Wiring for abandoned light fixtures is energized. The Contractor shall deenergize the wires prior to removal. Deenergizing of the existing wires shall be incidental to Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.



ELEVATION WINGWALL 2
Scale: 1/4" = 1'-0"

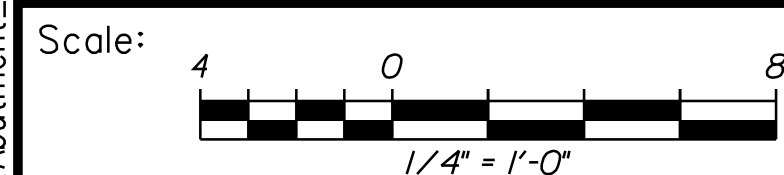


ELEVATION
Scale: 1/4" = 1'-0"




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

Filename: ... \028_Abutment_01.dgn



No.	Revision	By	Date

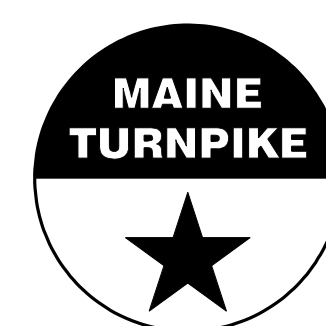
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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**

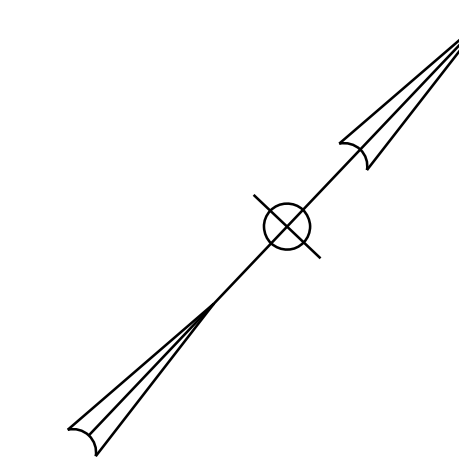
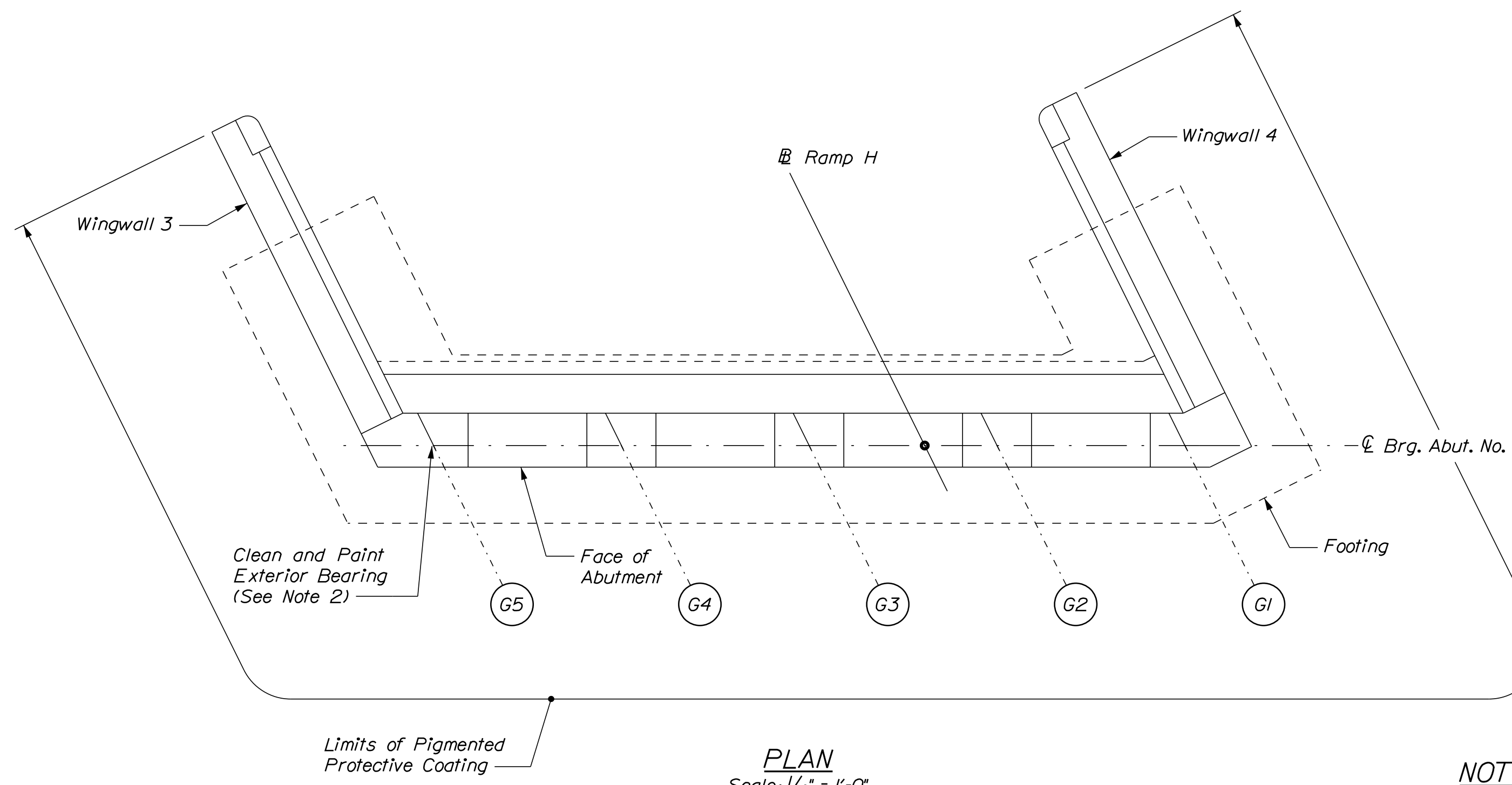
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 1 (RAMP H) UNDERPASS
AT MM 1.60 IN YORK, ME
ABUTMENT NO. 1 REPAIRS

VHB: 55345.00
CONTRACT: 2022.13

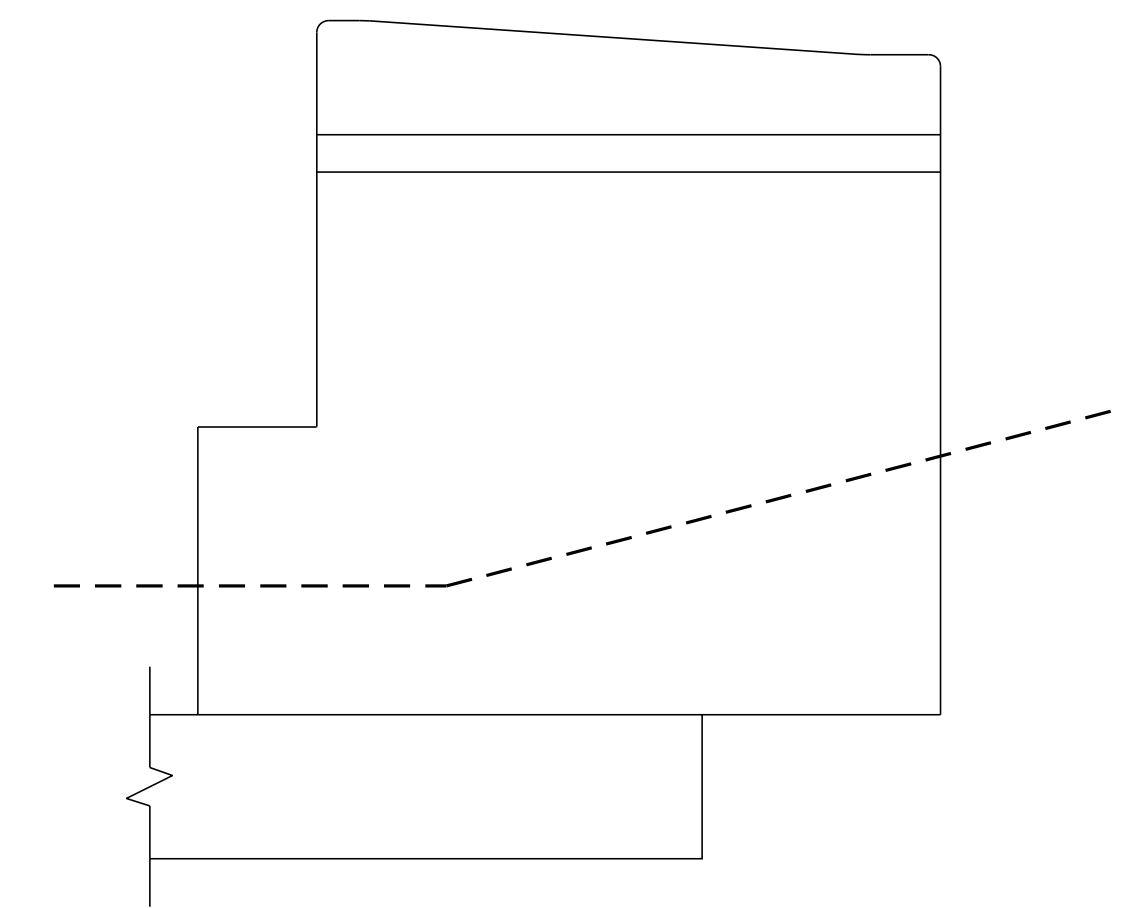
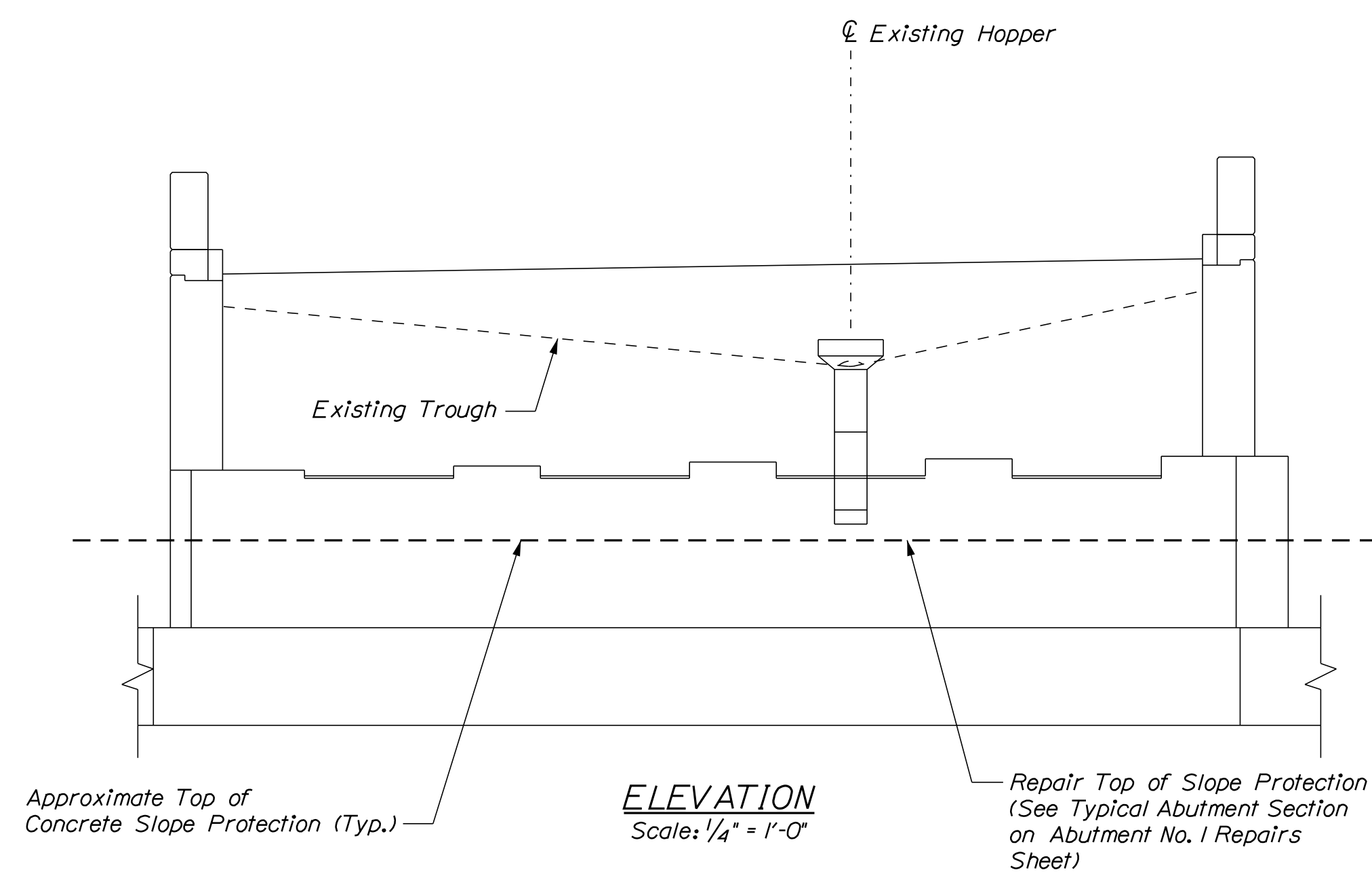
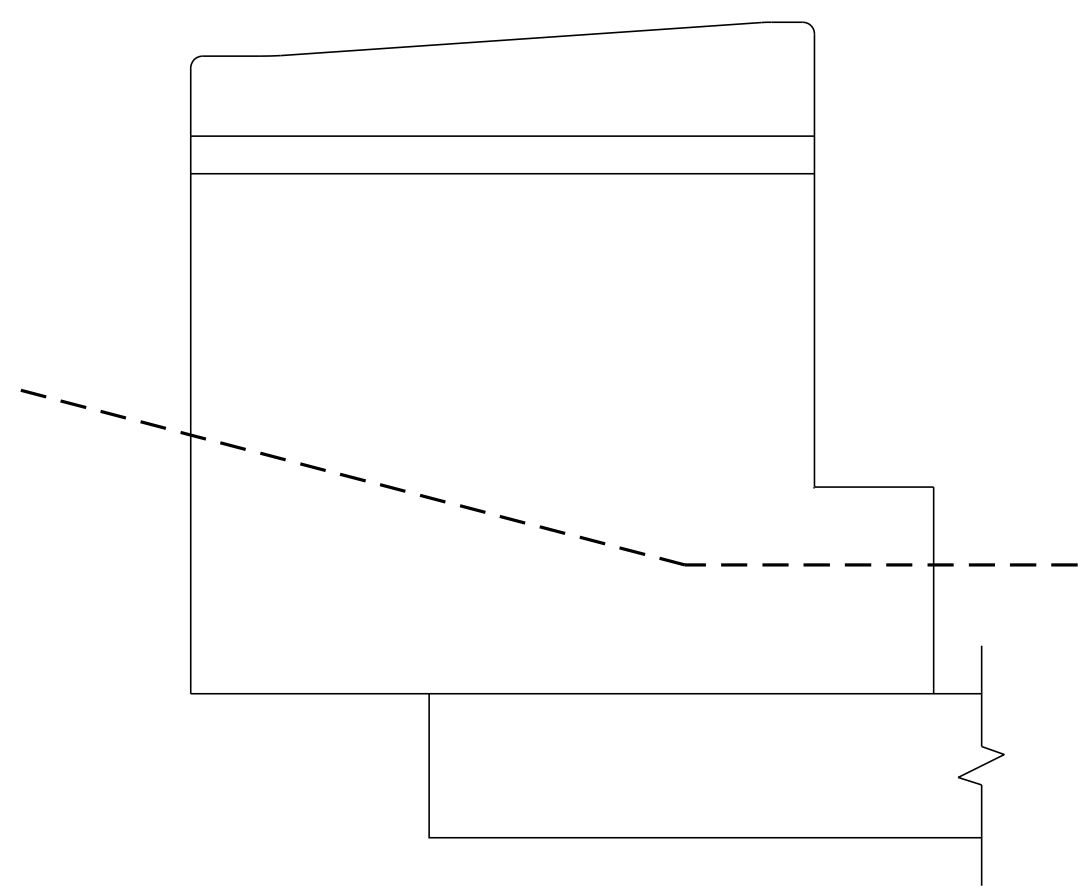
SHEET NUMBER: **28**
28 OF 31

Date: 5/26/2022



NOTES

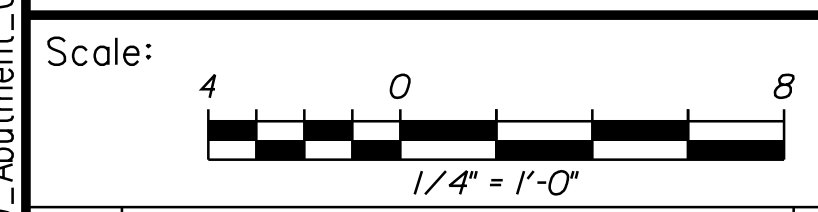
1. The Contractor shall flush clean existing trough as directed by the Resident. This work shall be incidental to the related Contract Items.
2. All labor, equipment, and materials necessary to clean and paint the bearing shall be paid for under Item 506.14 Field Painting of Existing Structural Steel (Ramp H).
3. The Contractor shall remove the existing protective coating prior to applying new coating. Payment for the removal of the existing coating shall be incidental to Item 515.201 Pigmented Protective Coating for Concrete Surfaces.



SHEET NOTE


1. For Typical Abutment Section see Abutment No. 1 Repairs Sheet.

Filename: ...029_Abutment_02.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	5/26/22	Checked	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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

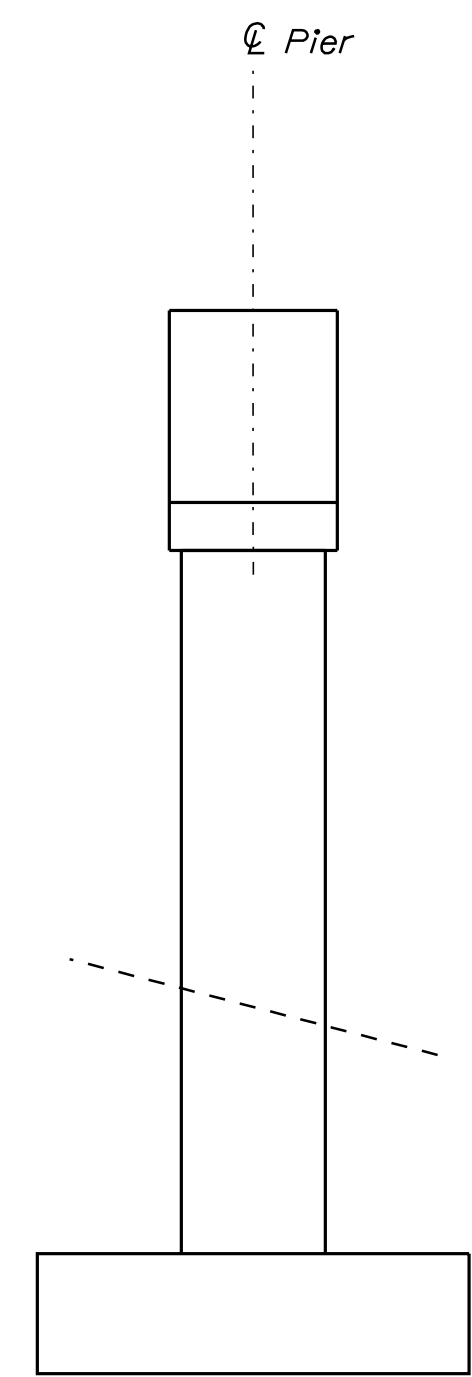
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 1 (RAMP H) UNDERPASS
AT MM 1.60 IN YORK, ME
ABUTMENT NO. 2 REPAIRS

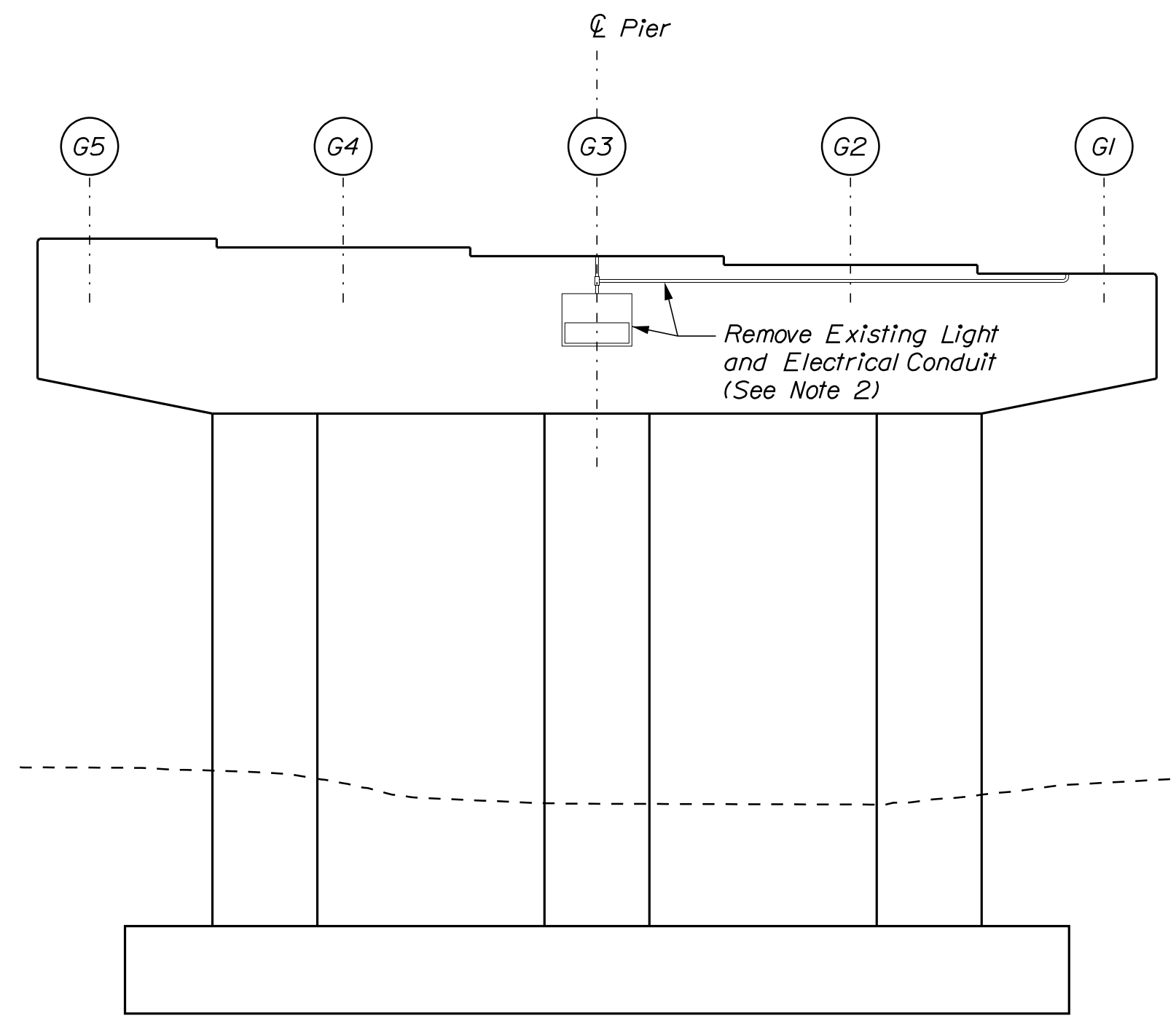
VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: **29**
29 OF 31

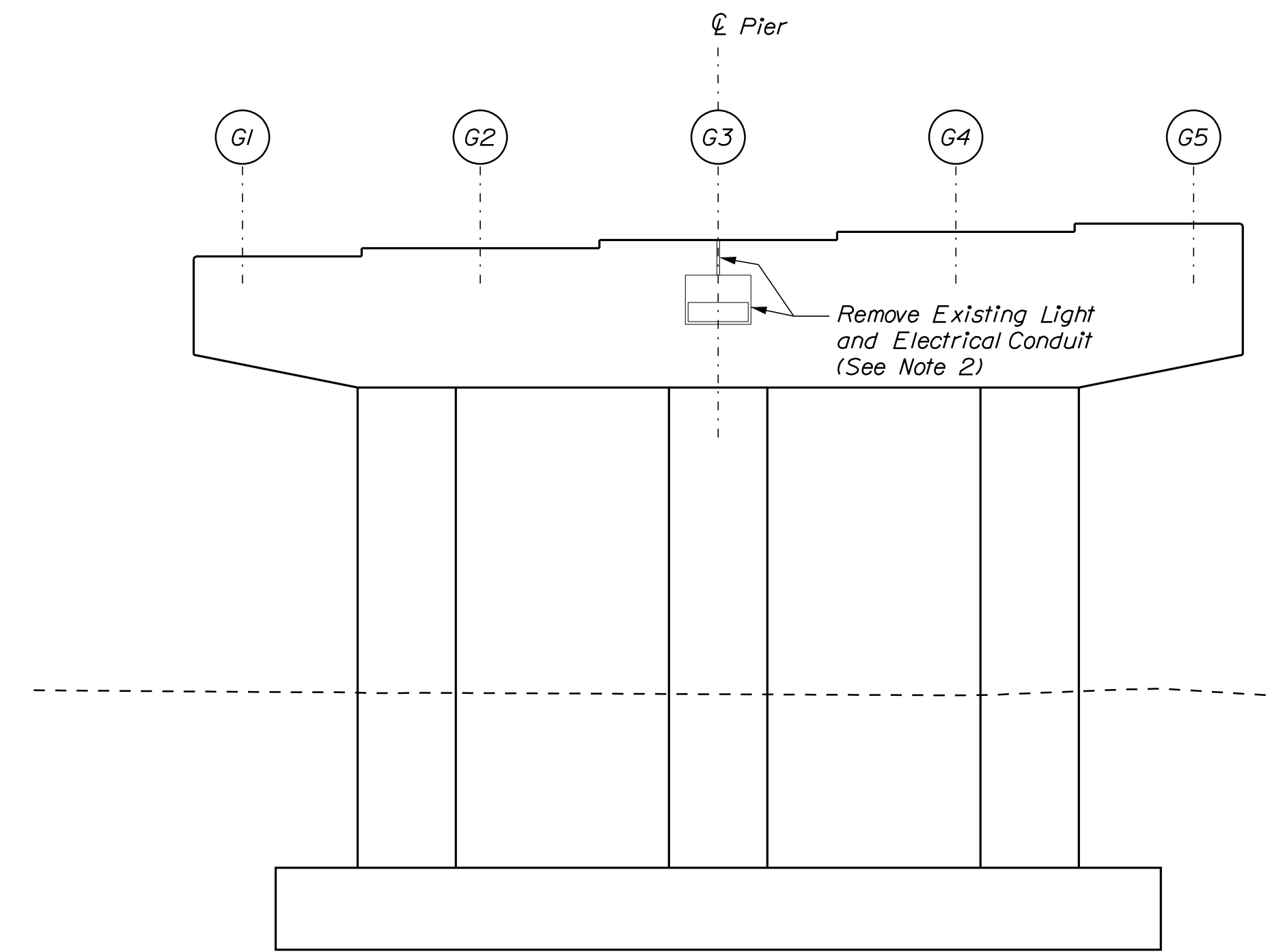
Date: 5/26/2022



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



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

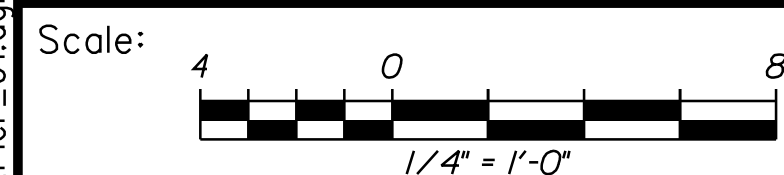


WEST ELEVATION
Scale: 1/4" = 1'-0"

NOTES

1. All labor, equipment, and materials necessary to remove existing light and electrical conduit shall be paid for under Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.
2. Wiring for abandoned light fixtures is energized. The Contractor shall deenergize the wires prior to removal. Deenergizing of the existing wires shall be incidental to Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.
3. Application of Pigmented Protective Coating to the pier of the Route 1 (Ramp H) Underpass is not required.

Filename: ...030_Pier_01.dgn

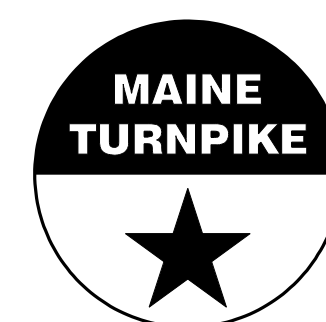


No.	Revision	By	Date

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. 2022.13
ROUTE 1 (RAMP H) UNDERPASS
AT MM 1.60 IN YORK, ME
PIER REPAIRS

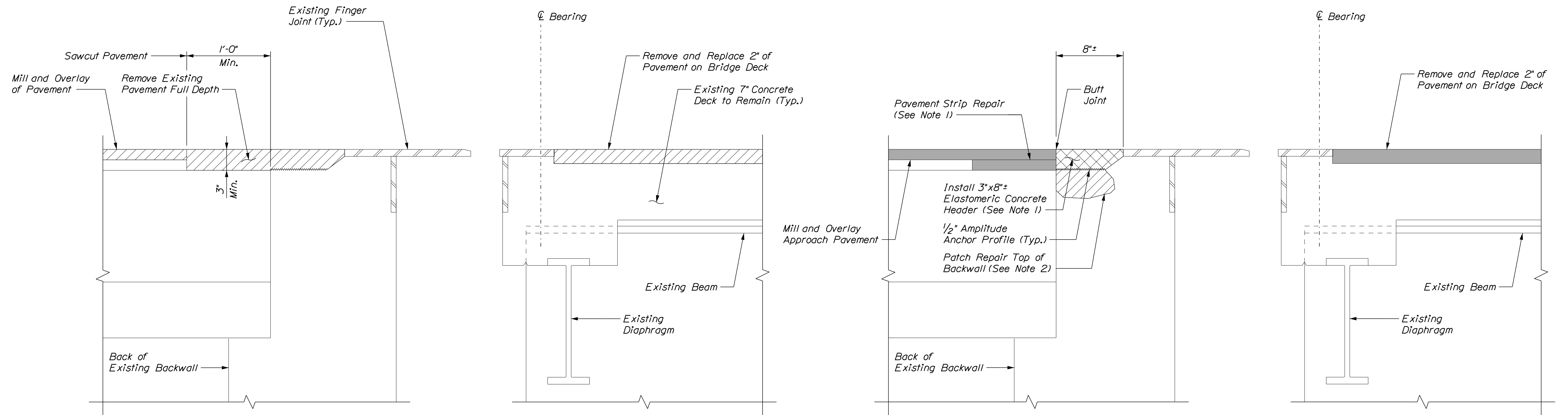
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	5/26/22	GME	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

VHB: 55345.00
CONTRACT: 2022.13

SHEET NUMBER: **30**
30 OF 31

Date: 5/26/2022



EXISTING EXPANSION JOINT SECTION

PROPOSED EXPANSION JOINT SECTION


SECTIONS AT EXPANSION JOINTS AT ABUTMENTS
Not to Scale

NOTE

1. All labor, equipment, and materials necessary for installing the Pavement Strip Repair shall be incidental to Item 518.864. Elastomeric Concrete Header Repair. Elastomeric Concrete Header shall be paid under Item 518.864, Elastomeric Concrete Header Repair.
2. Prior to placing the elastomeric concrete header, the Contractor shall repair any areas of deteriorated concrete at the top of the backwall, as directed by the Resident. Repairs to the top of the backwall will be paid under Item 518.10, Abutment Repairs.

Filename: ...031_Joint.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	5/26/22	GME	GME	5/26/22
Drawn	DPD	5/26/22	In Charge of	TSB	5/26/22

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 MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.13
ROUTE 1 (RAMP H) UNDERPASS
AT MM 1.60 IN YORK, ME
BRIDGE JOINT MODIFICATIONS

VHB: 55345.00 SHEET NUMBER: **31**
CONTRACT: 2022.13 **31 OF 31**