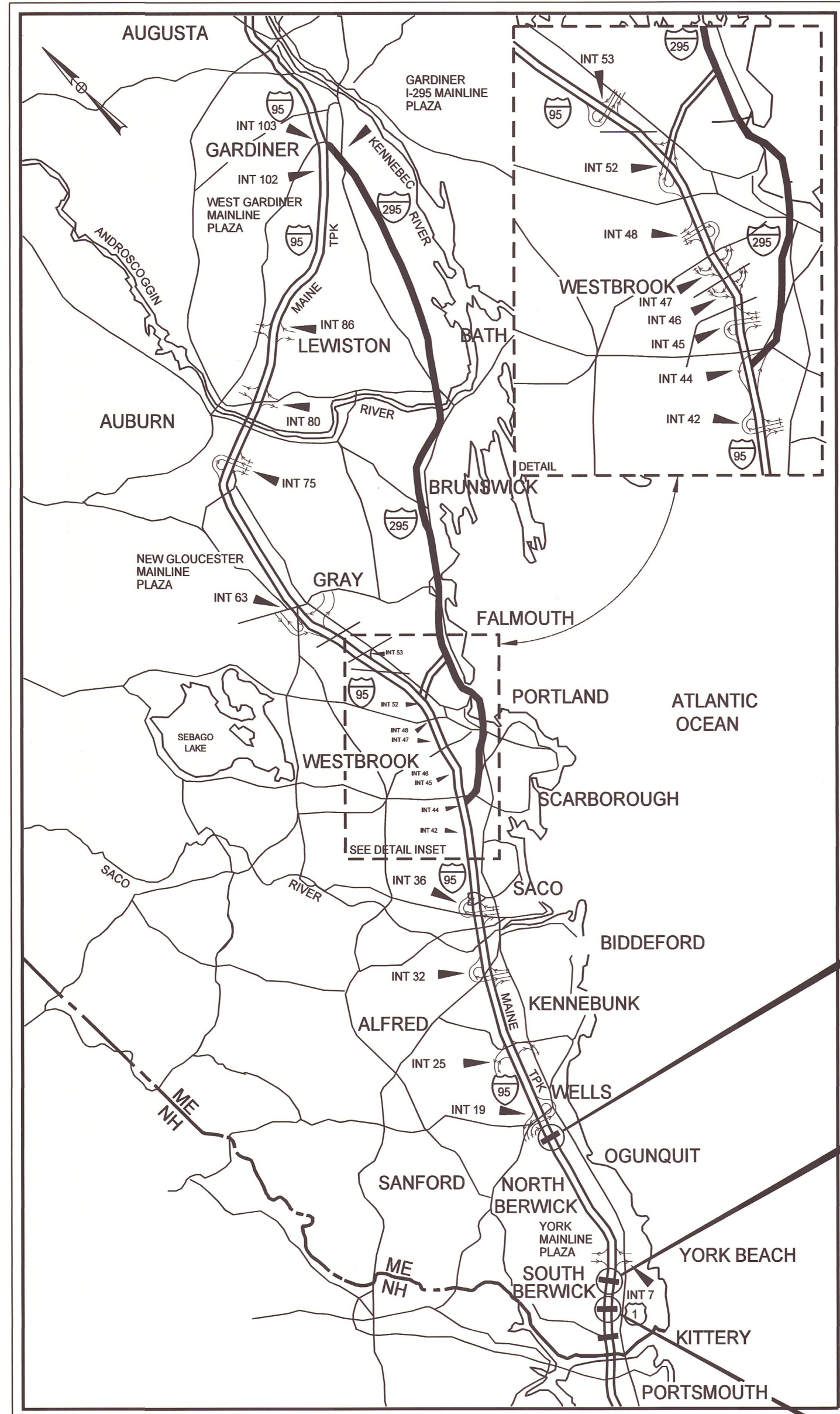


Date: 4/27/2022



LOCATION MAP



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2022.12

BRIDGE REPAIRS

ROUTE 1 OFF-RAMP (RAMP J) UNDERPASS (MM 1.50)
WILSON ROAD UNDERPASS (MM 2.00)
LITTLEFIELD ROAD UNDERPASS (MM 17.30)

INDEX OF SHEETS

Sheet No.	Description
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3	General Notes
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7	Ramp J Detour Plan (1 Sheet)
8-10	Wilson Road Phase 1 Traffic Control Plans (3 Sheets)
11	Wilson Road Detour Plan (1 Sheet)
12-16	Littlefield Road Maintenance of Traffic Details (5 Sheets)
17	Concrete Repair Typical Details
18	Miscellaneous Details
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19	General Plan and Elevation
20	Bridge Typical Section
21	Abutment No. 1 Repairs
22	Abutment No. 2 Repairs
Structure 2 Wilson Road Underpass Bridge	
23	General Plan and Elevation
24	Bridge Typical Section
25	Abutment No. 1 Repairs
26	Abutment No. 2 Repairs
27	Pier No. 1 Repairs
28	Pier No. 2 Repairs
29	Bridge Joint Modifications (1 of 2)
30	Bridge Joint Modifications (2 of 2)
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Structure 3 Littlefield Road Underpass Bridge	
32	General Plan and Elevation
33	Bridge Typical Section
34	Abutment No. 1 Repairs
35	Abutment No. 2 Repairs
36	Pier Repairs
37	Bridge Joint Modifications
38	Slope Protection Repairs

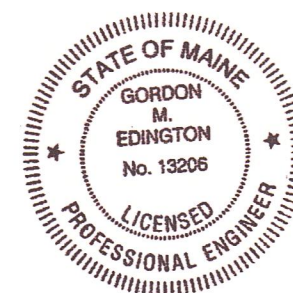
APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER

04/27/22
DATE

Stephen R. Taitre
 STEPHEN R. TAITRE, P.E. - DIRECTOR OF ENGINEERING &
 BUILDING MAINTENANCE

4/27/22
DATE



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

4/27/2022
DATE

Contract 2022.12

Filename: ...001_title.dgn

Date: 4/29/2022

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	UNIT	Route 1 Off-Ramp (Ramp J)	Wilson Road	Littlefield Road	Quantity Total
202.202	Removing Pavement Surface	SY	1,310	1,150	850	3,310
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Surface)	TON	140	120	71	331
409.15	Bituminous Tack Coat RS-1 or RS1h - Applied	GAL	53	45	34	132
502.702	Replace Bridge Drain (Type A)	EA	5	6	0	11
508.14	High Performance Waterproofing Membrane (Ramp J) (994 SY) *	LS	1	0	0	1
508.14	High Performance Waterproofing Membrane (Wilson Rd) (927 SY) *	LS	0	1	0	1
515.201	Pigmented Protective Coating for Concrete Surfaces	SY	260	390	380	1,030
515.202	Clear Protective Coating for Concrete Surfaces	SY	310	360	350	1,020
518.10	Abutment Repairs	SF	680	30	20	730
518.20	Pier Repairs	SF	0	20	0	20
518.391	Repairing Granite Curb Joint and Bedding Mortar	LF	790	690	0	1,480
518.4	Epoxy Injection Crack Repair	LF	0	90	0	90
518.48	Reseal Joints	LF	0	0	125	125
518.70	Repair of Overhead Surfaces < 8 inches	SF	0	5	0	5
518.75	Fascia and Overhang Repairs	SF	12	130	5	147
518.76	Partial Concrete Curb Reconstruction	LF	0	280	0	280
518.80	Partial Depth Concrete Deck Repairs	SF	180	335	0	515
518.81	Full Depth Concrete Deck Repairs	SF	90	85	0	175
518.864	Elastomeric Concrete Header Repair	CF	0	0	10	10
518.92	Slope Protection Repairs	LF	0	170	0	170
518.921	Slope Protection Concrete Repairs	SF	0	0	80	80
518.93	Parapet Repairs	SF	0	0	110	110
518.94	Parapet Surface Repairs	LF	0	0	361	361
520.234	Expansion Device - Silicone Coated and Pre-Compressed Seal	LF	0	0	36	36
520.2407	Bridge Joint Steel Modification	EA	0	4	0	4
520.50	Remove and Replace Gland Seal (Wilson Rd)	EA	0	2	0	2
523.1201	Reset Steel Bearings	EA	5	0	0	5
524.40	Protective Shielding - Steel Girders	SY	0	360	0	360
524.7212	Jacking Existing Superstructure (Ramp J)	LS	1	0	0	1
526.301	Temporary Concrete Barrier, Type 1	LF		750		750
527.341	Work Zone Crash Cushion - TL-3	UNIT		4		4
527.343	Resetting Existing Work Zone Crash Cushion	UNIT		4		4
627.712	White or Yellow Pavement Marking Line	LF	900	7,890	2,750	11,540
627.73	Temporary 6" Pavement Marking Tape	LF		72		72
627.77	Removing Existing Pavement Markings	SF		3,135		3,135
629.05	Hand Labor, Straight Time	HR		100		100
631.10	Air Compressor (including operator)	HR		100		100
631.11	Air Tool (including operator)	HR		100		100
631.12	All Purpose Excavator (including operator)	HR		100		100
631.171	Truck - small (including operator)	HR		100		100
631.36	Foreman	HR		100		100
639.19	Field Office, Type B	EA		1		1
643.72	Temporary Traffic Signal	LS		1		1
652.3	Flashing Arrow	EA		4		4
652.312	Type III Barricade	EA		14		14
652.33	Drum	EA		230		230
652.34	Cone	EA		50		50
652.35	Construction Signs	SF		2,040		2,040
652.361	Maintenance of Traffic Control Devices	LS		1		1
652.38	Flaggers	HR		300		300
652.41	Portable Changeable Message Sign	EA		3		3
652.45	Truck Mounted Attenuator	CD		50		50
652.451	Automated Trailer Mounted Speed Limit Sign	CD		35		35
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
830.17	Utility Conduit Hanger System Hardware	LS	0	0	1	1

* Quantities are Estimated Only

Scale: AS NOTED

Designed by:



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Suite 105B
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.12

ESTIMATED QUANTITIES

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 2
2 OF 38

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

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 1

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

ROUTE 1 OFF-RAMP (RAMP J) UNDERPASS BRIDGE

Design Live Load (for existing components) HS 20-44
AADT 2,700
Design Speed (MPH) (for existing) 45
Functional Class Interstate

WILSON ROAD UNDERPASS BRIDGE

DESIGN LIVE LOAD (for existing components) H 20-44
AADT 4,630
Design Speed (MPH) (for existing) 35
Functional Class Major Collector

LITTLEFIELD ROAD UNDERPASS BRIDGE

DESIGN LIVE LOAD (for existing components) HS 25
AADT 5,580
Design Speed (MPH) (for existing) 45
Functional Class Minor Collector

GENERAL CONSTRUCTION NOTES

- All details shall be in conformance with Maine Department of Transportation (MaineDOT) 2014 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 must be completed within the limits shown in these Plans.
- 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.
- For all structures pigmented protective coating for concrete surfaces shall be applied to the following areas:
 - All exposed concrete surfaces of the piers, unless otherwise noted.
 - Exposed concrete surfaces of the abutments as shown in these plans.
- 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.
- For 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.

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 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.
- 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 its 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.
- The anticipated utilities involved in this contract are:
Central Maine Power Company
Charter Communications, Inc.
Consolidated Communications
Kennebunk, Kennebunkport & Wells Water District
- Contractor shall protect all new and existing utilities from damage during the construction as approved by the utility owners.

Date: 4/29/2022





Scale: AS NOTED <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> </tbody> </table>	No.	Revision	By	Date													Designed by: CONSULTANT PROJECT MANAGER: G. Edington <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>MEB</td> <td>4/29/22</td> <td>Checked</td> <td>GME</td> <td>4/29/22</td> </tr> <tr> <td>Drawn</td> <td>DPD</td> <td>4/29/22</td> <td>In Charge of</td> <td>TSB</td> <td>4/29/22</td> </tr> </tbody> </table>		By	Date		By	Date	Designed	MEB	4/29/22	Checked	GME	4/29/22	Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22	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 NO. 2022.12 GENERAL NOTES
No.	Revision	By	Date																																				
	By	Date		By	Date																																		
Designed	MEB	4/29/22	Checked	GME	4/29/22																																		
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22																																		
				VHB: 55345.00 CONTRACT: 2022.12		SHEET NUMBER: 3 3 OF 38																																	

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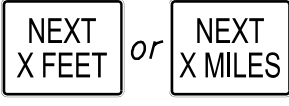



MAINTENANCE OF TRAFFIC GENERAL NOTES

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. 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.
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.

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 			36"x30"	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: 4/29/2022

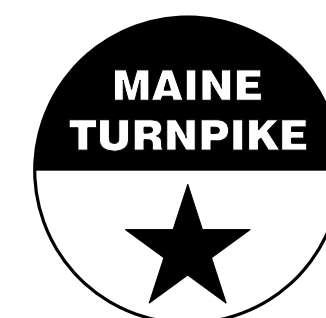
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Designed by:



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12

MAINTENANCE OF TRAFFIC DETAILS (1 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	By	Date	
Designed	MLG	4/29/22	Checked	MDS	4/29/22
Drawn	JAR	4/29/22	In Charge of	TSB	4/29/22

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







VHB: 55345.00
 CONTRACT: 2022.12











SHEET NUMBER: **4**
 4 OF 38







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" 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
W20-5a 			48"x48"	4 - Black on Orange
W20-5L 			48"x48"	4 - Black on Orange
W20-5R 			48"x48"	4 - Black on Orange


Date: 4/29/2022

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Scale: NOT TO SCALE				
No.	Revision	By	Date	

Designed by:					
					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	4/29/22	Checked	MDS	4/29/22
Drawn	JAR	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

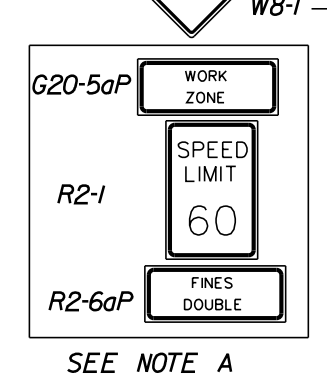
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12	
MAINTENANCE OF TRAFFIC DETAILS (2 OF 3)	
VHB: 55345.00	SHEET NUMBER: 5
CONTRACT: 2022.12	5 OF 38

Date: 4/29/2022

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

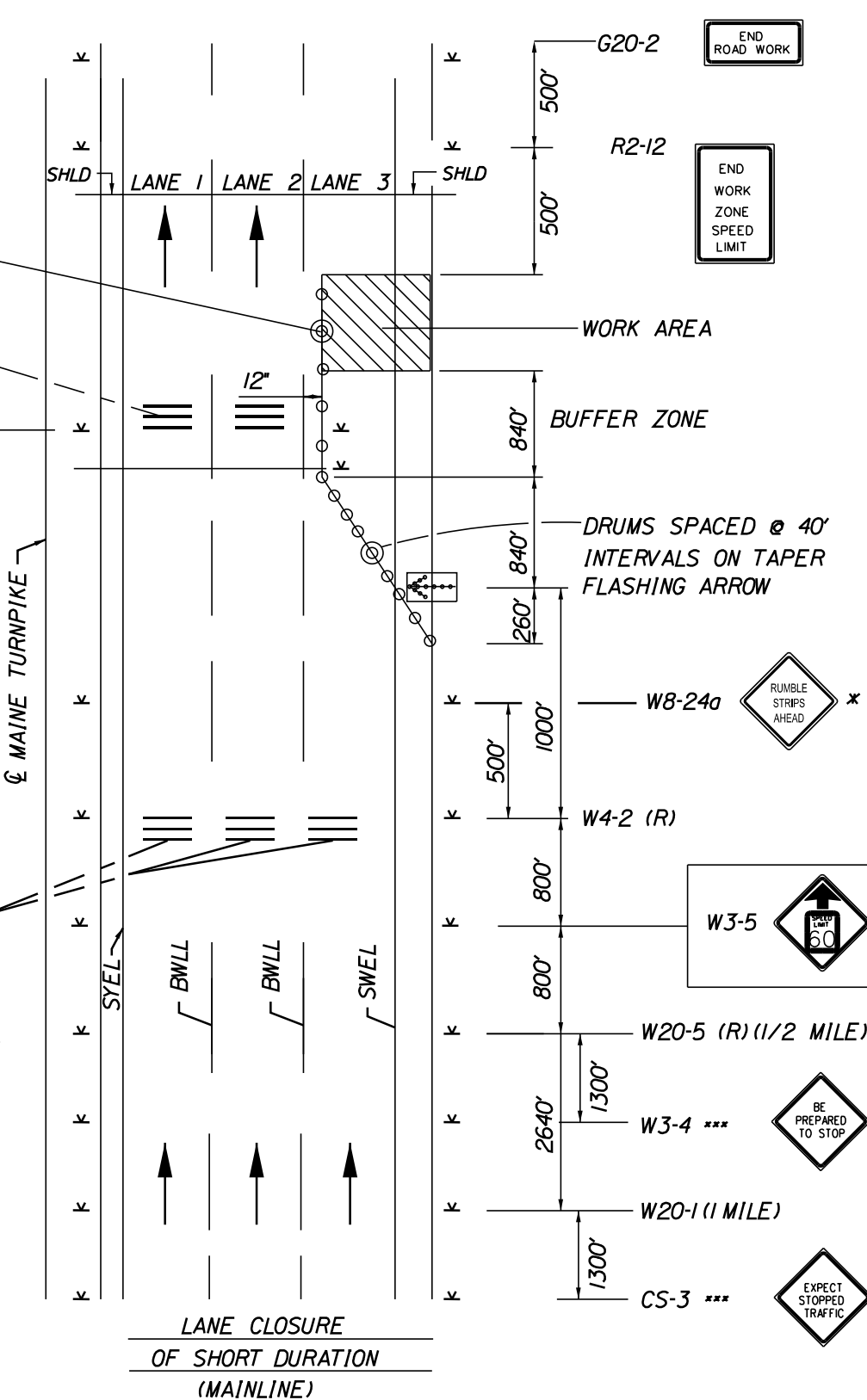
DRUMS SPACED @ 80' INTERVALS ON TANGENT
* RUMBLE STRIPS SEE NOTE 1



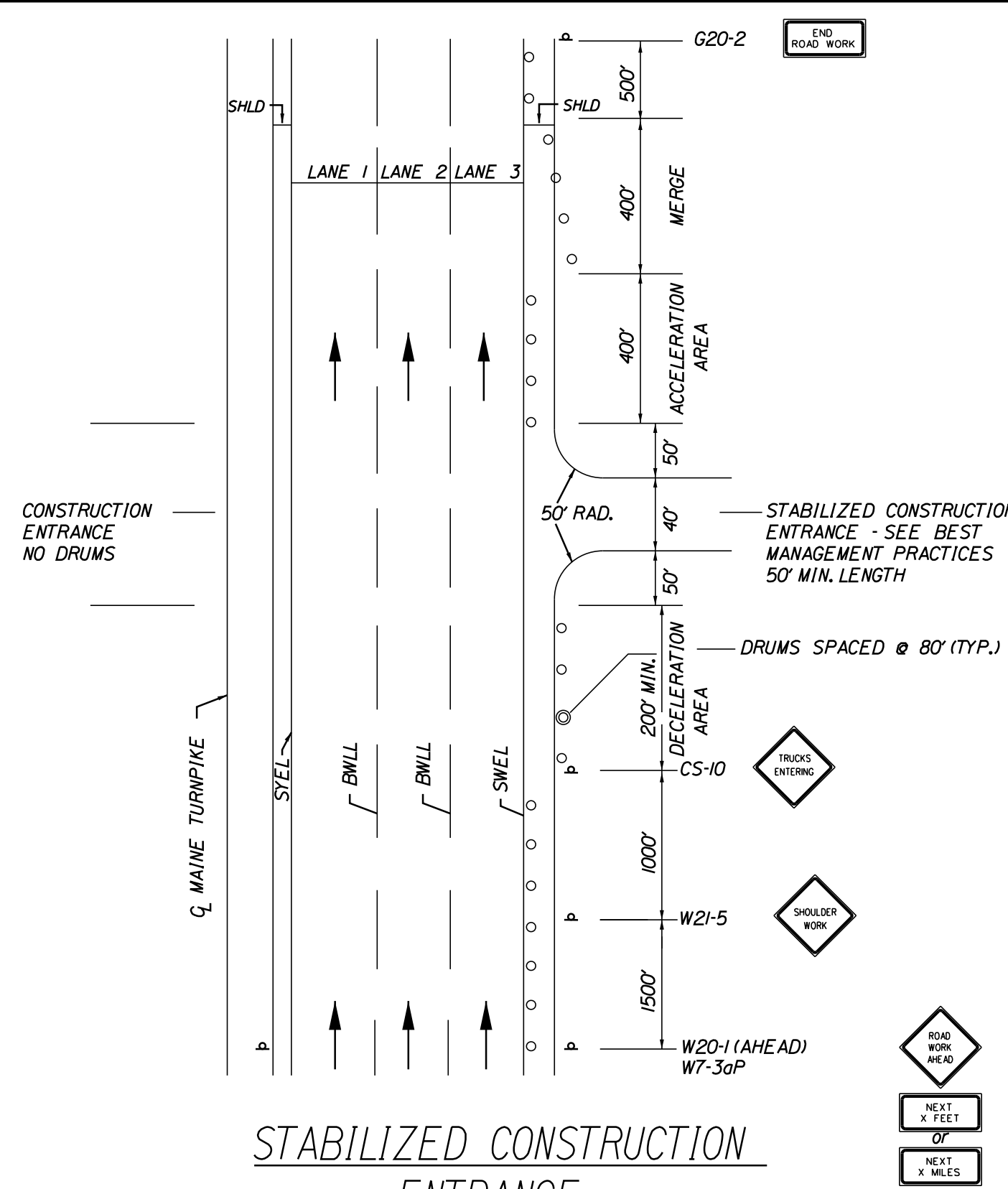
SEE NOTE A

* RUMBLE STRIPS SEE NOTES 1&2

* OPTIONAL
*** TO BE USED DURING STOPPAGES OF TRAFFIC

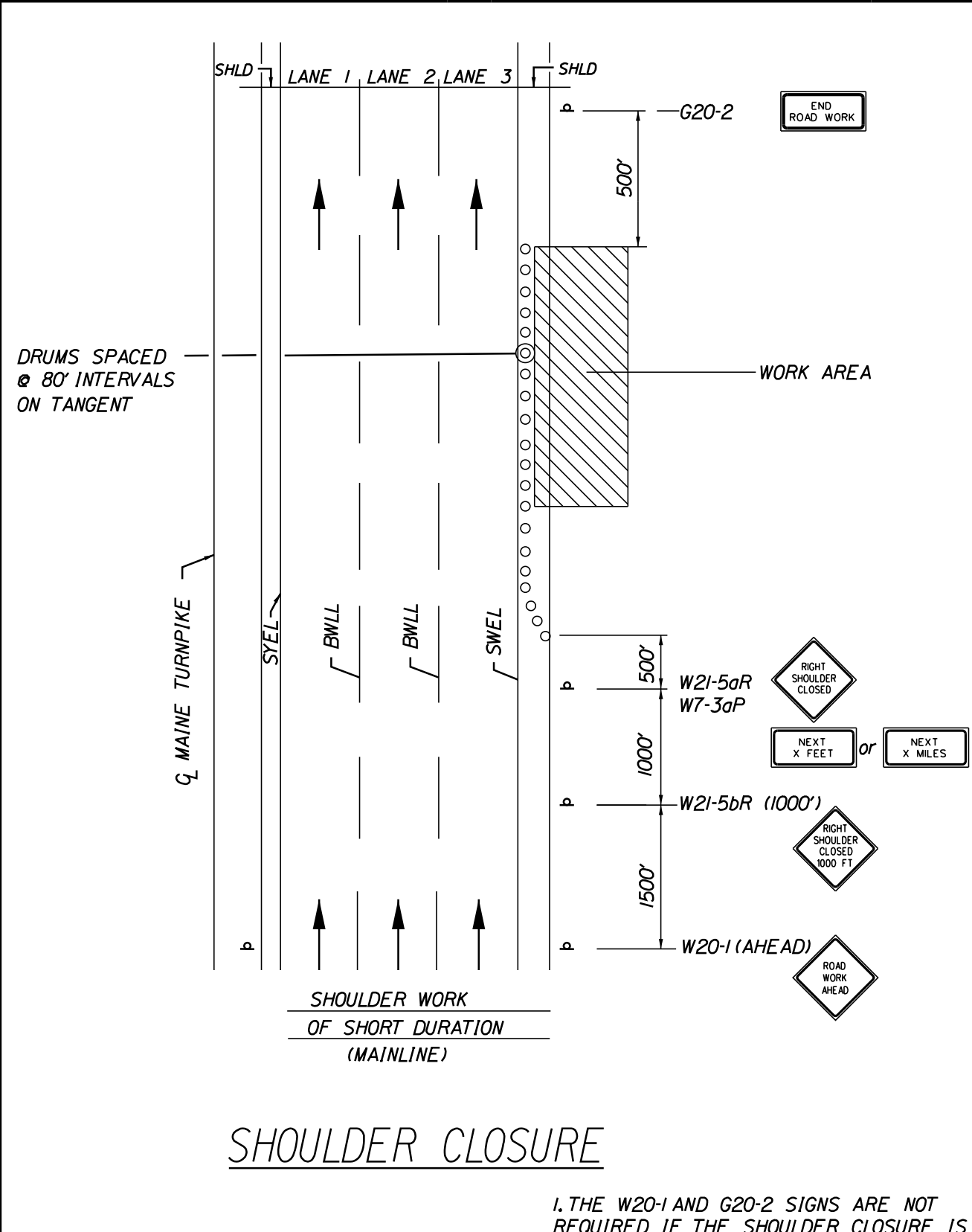


SINGLE LANE CLOSURE - SIGNS ON EASELS



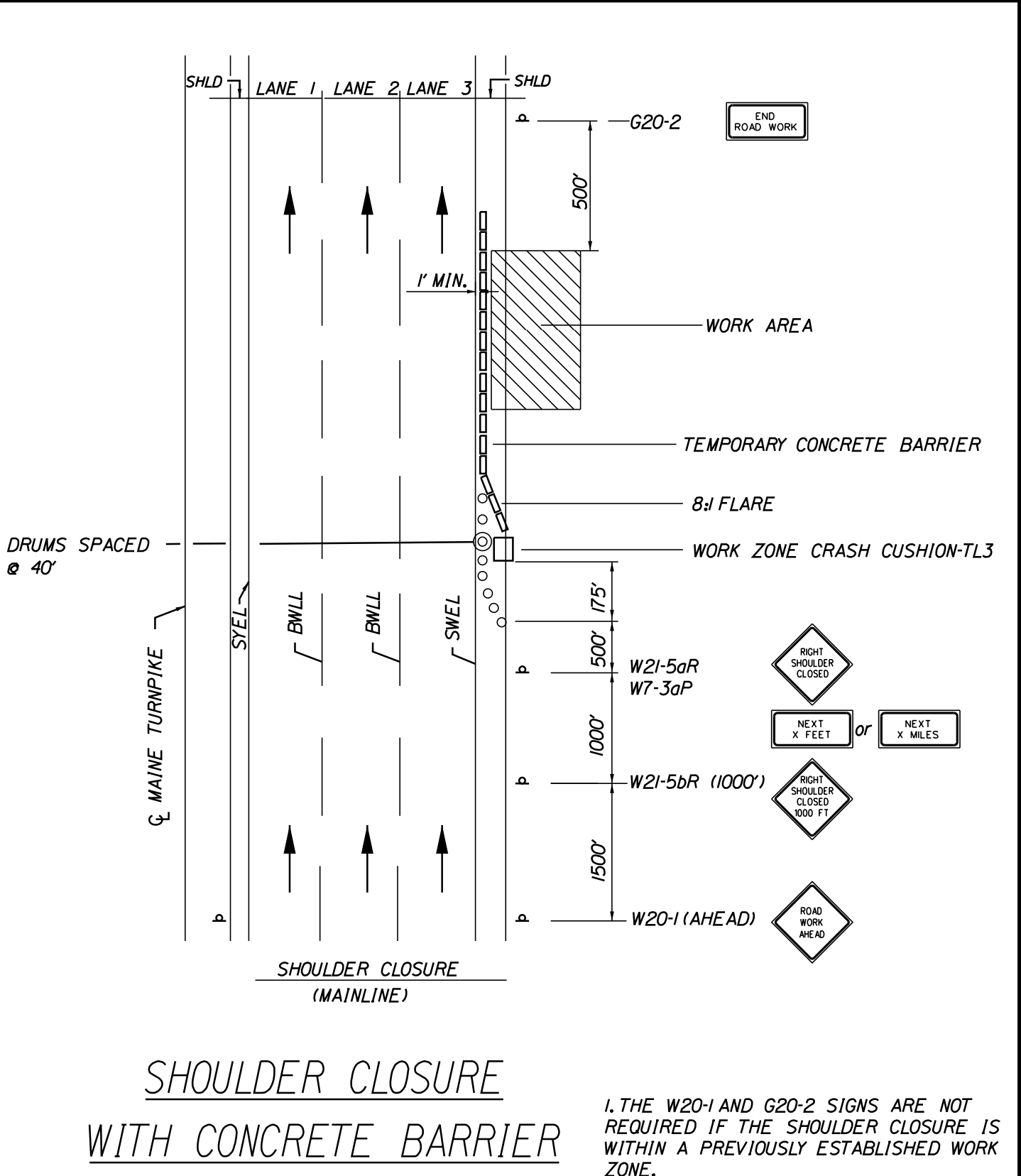
STABILIZED CONSTRUCTION ENTRANCE

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.

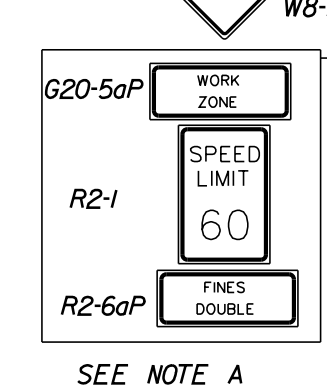


SHOULDER CLOSURE WITH CONCRETE BARRIER

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).

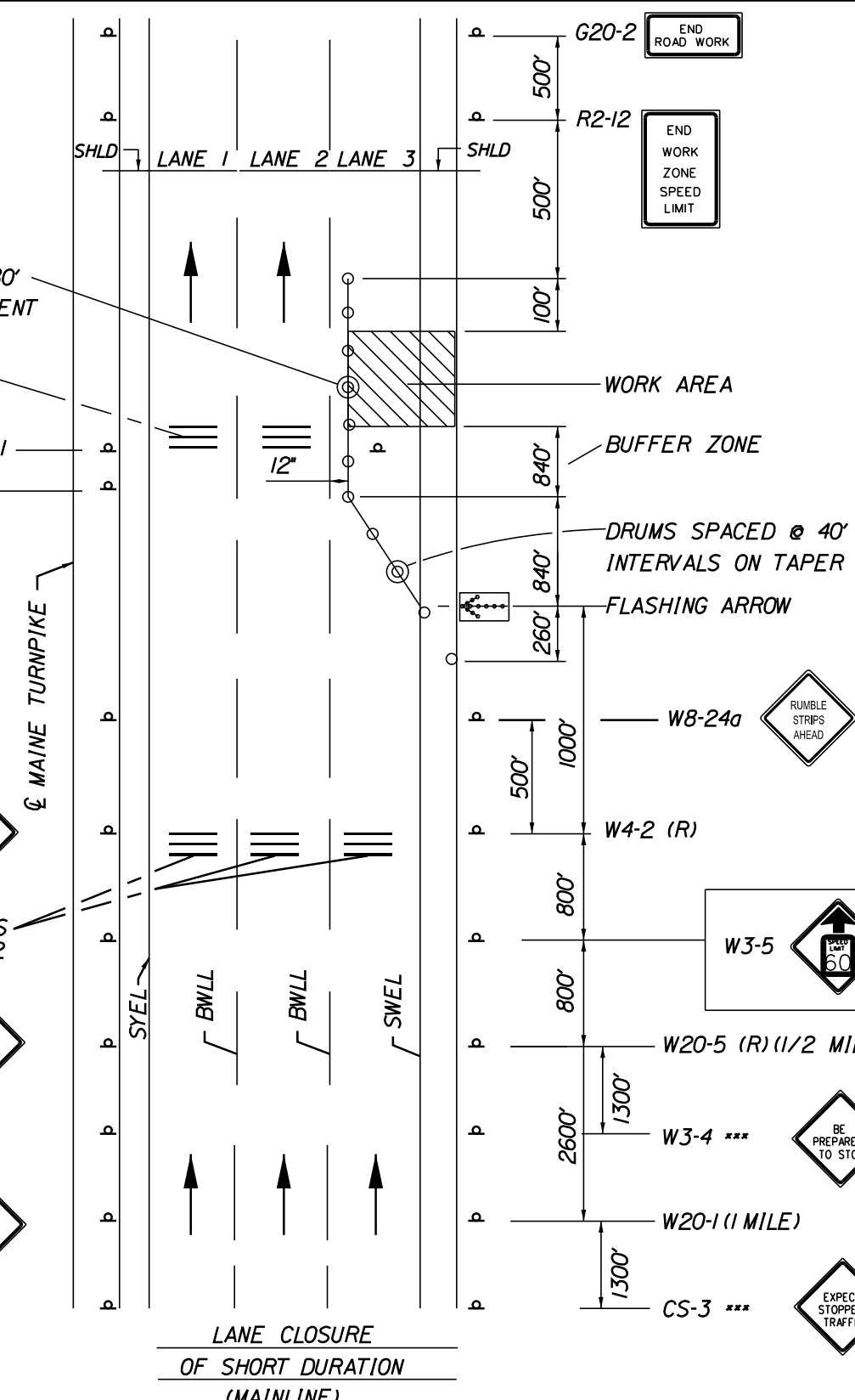
DRUMS SPACED @ 80' INTERVALS ON TANGENT
* RUMBLE STRIPS SEE NOTE 1



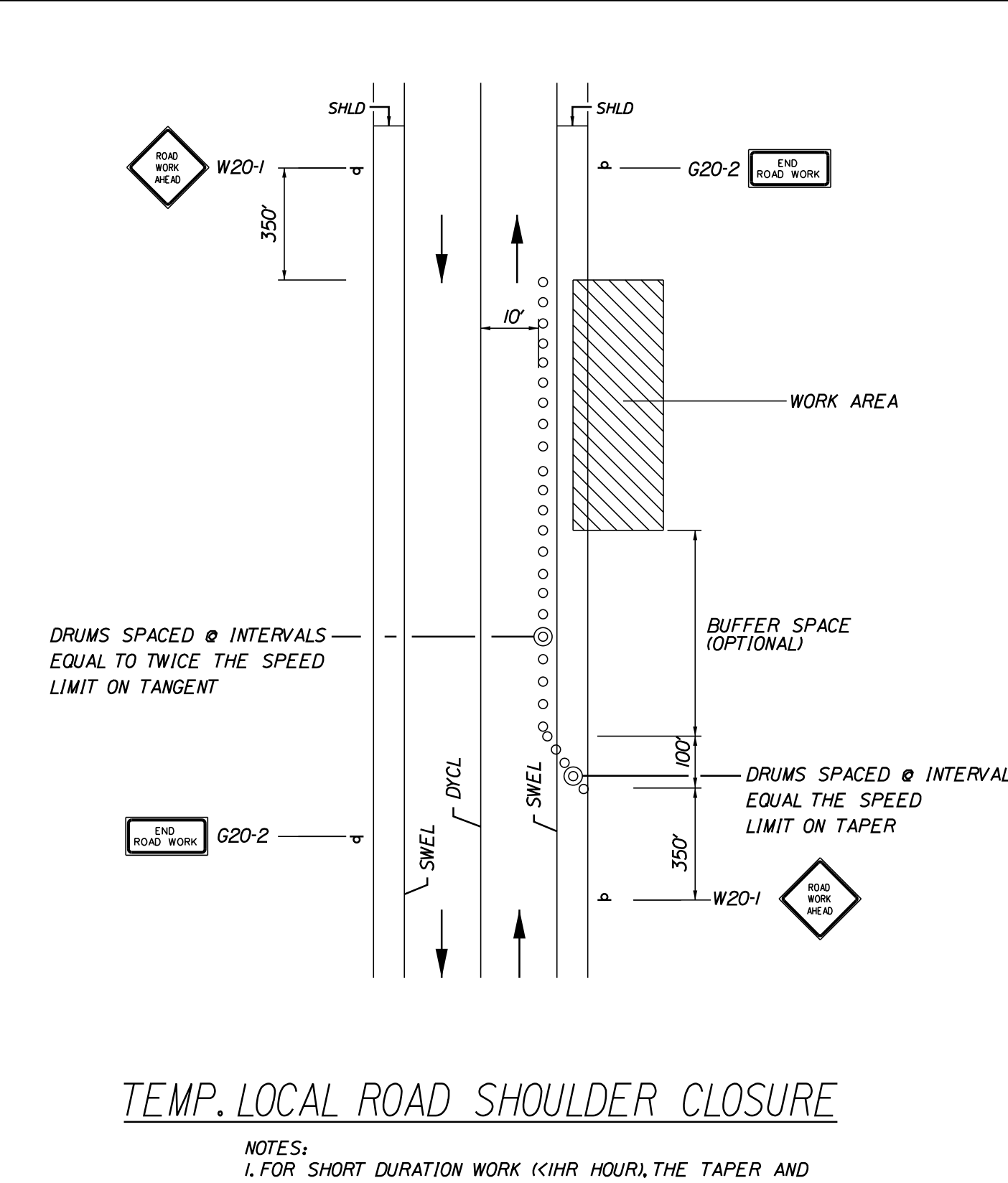
SEE NOTE A

* RUMBLE STRIPS SEE NOTES 1&2

* OPTIONAL
*** TO BE USED DURING STOPPAGES OF TRAFFIC

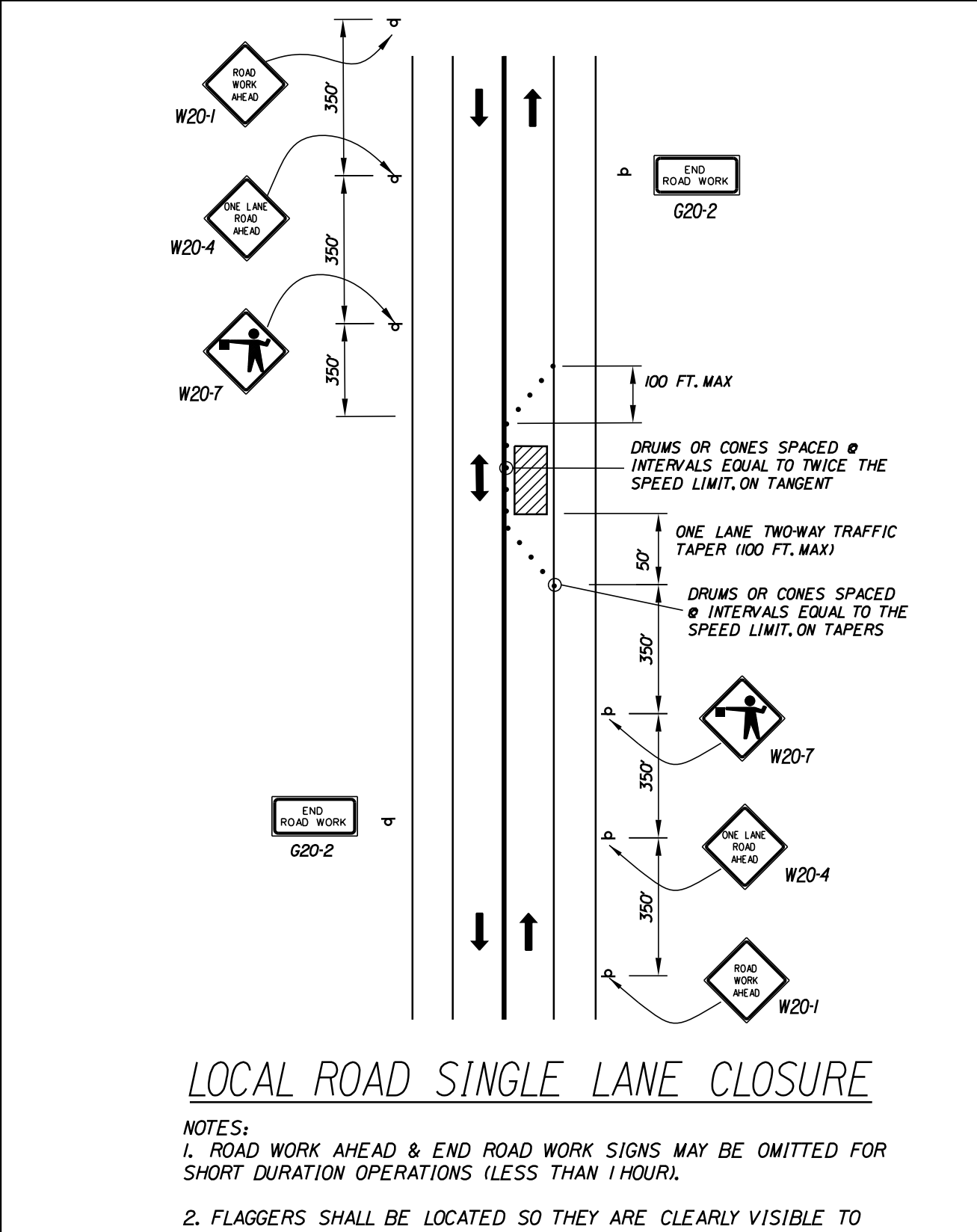


SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP



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)
 - 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

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
By	Date	By	Date
Designed	MLG 4/29/22	Checked	MDS 4/29/22
Drawn	JAR 4/29/22	In Charge of	TSB 4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

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

MTA PROJECT NO. 2022.12

MAINTENANCE OF TRAFFIC DETAILS (3 OF 3)

VHB: 55345.00 SHEET NUMBER: 6
CONTRACT: 2022.12 6 OF 38

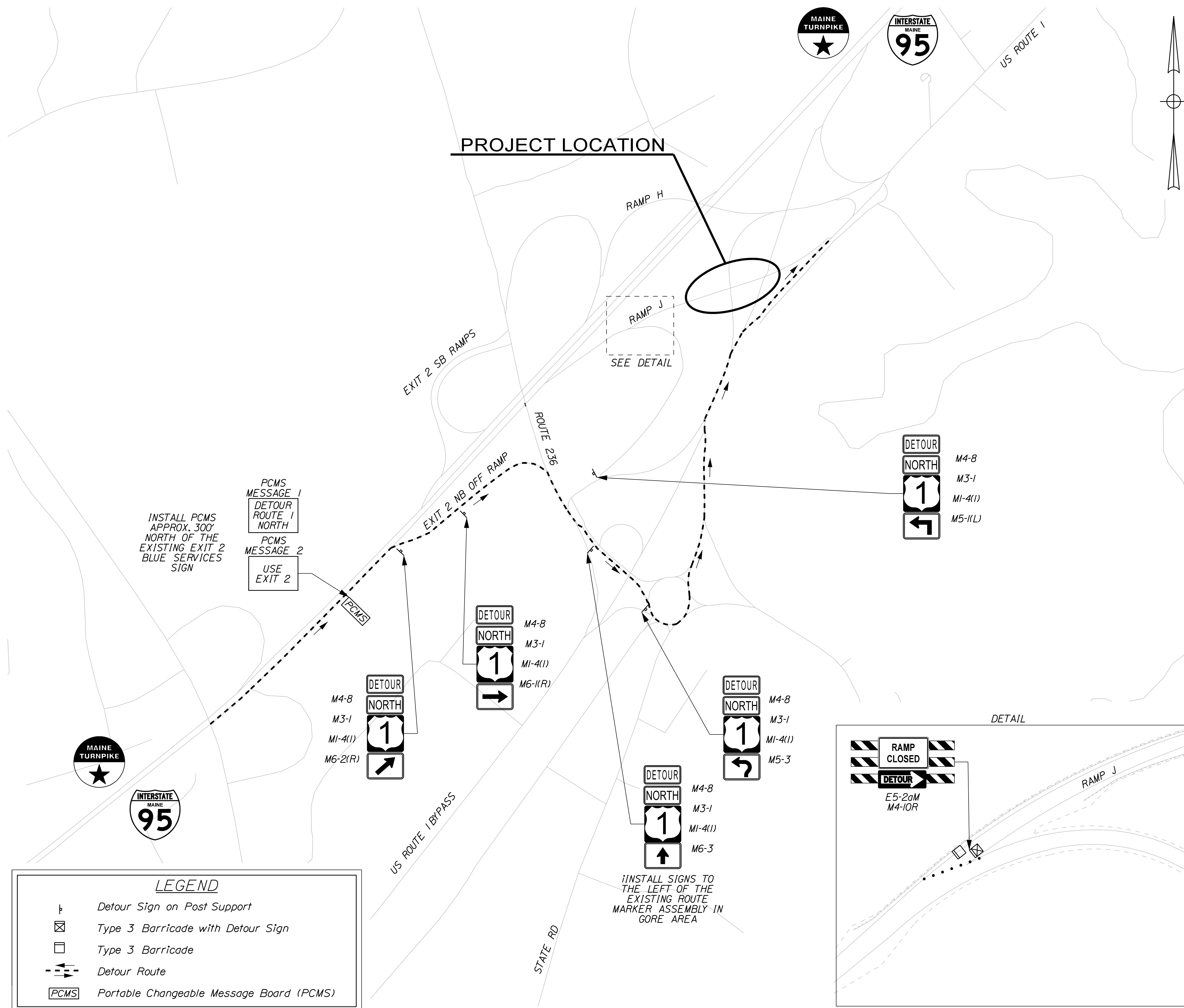
DETOUR FOR ROUTE 1 (RAMP J) UNDERPASS CLOSURE

Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
M1-4(1)		SHSB	36"x36"	5 - Black on White
M3-1			36"x18"	5 - Black on White
M4-8			30"x15"	5 - Black on Orange
M4-10R			48"x18"	1 - Black on Orange on Black
M5-1(L)			30"x21"	1 - Black on White
M5-3			30"x21"	1 - Black on White
M6-1(R)			30"x21"	1 - Black on White
M6-2(R)			30"x21"	1 - Black on White
M6-3			30"x21"	1 - Black on White
E5-2aM			48"x36"	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
	Portable Changeable Message Board (PCMS)

Date: 4/29/2022

Filename: ...007_Detour_01.dgn

Scale: 1" = 300'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	4/15/22	Checked	MDS	4/15/22
Drawn	JAR	4/15/22	In Charge of	TSB	4/15/22

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THE GOLD STAR MEMORIAL HIGHWAY

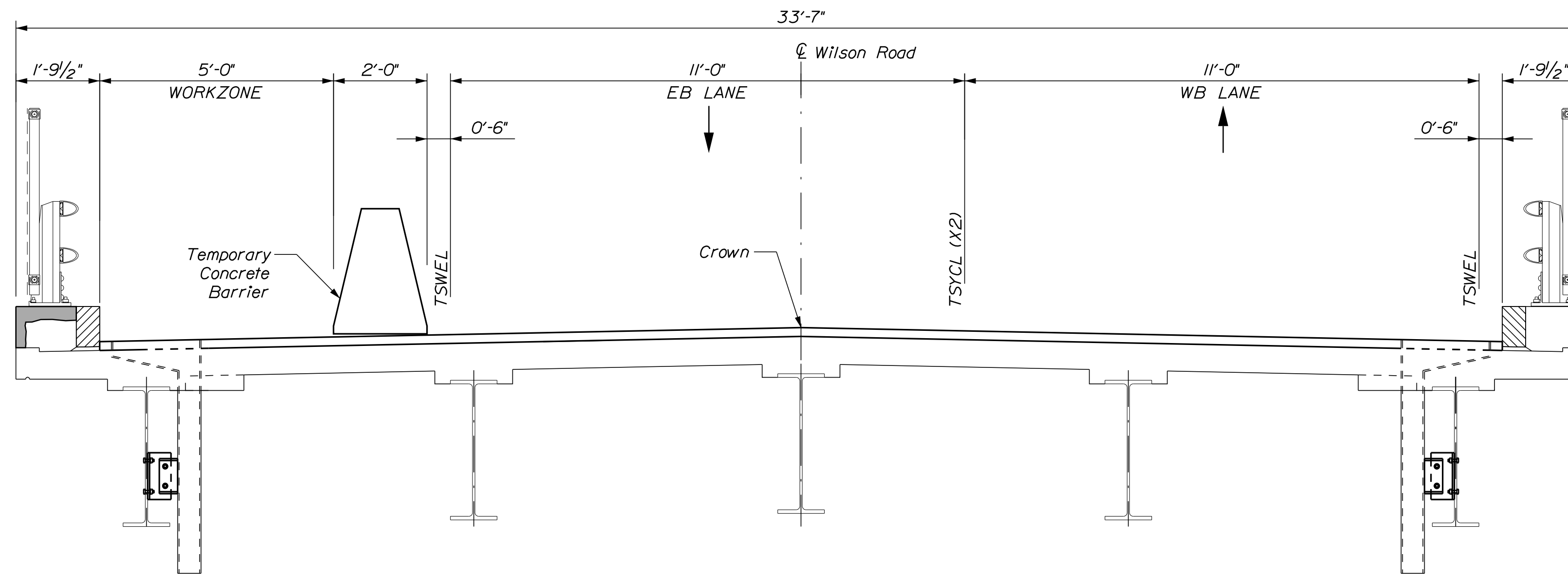
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
 RAMP "J" UNDERPASS
 AT MM 1.50 IN YORK, ME
 DETOUR PLAN

VHB: 55345.00
 CONTRACT: 2022.12

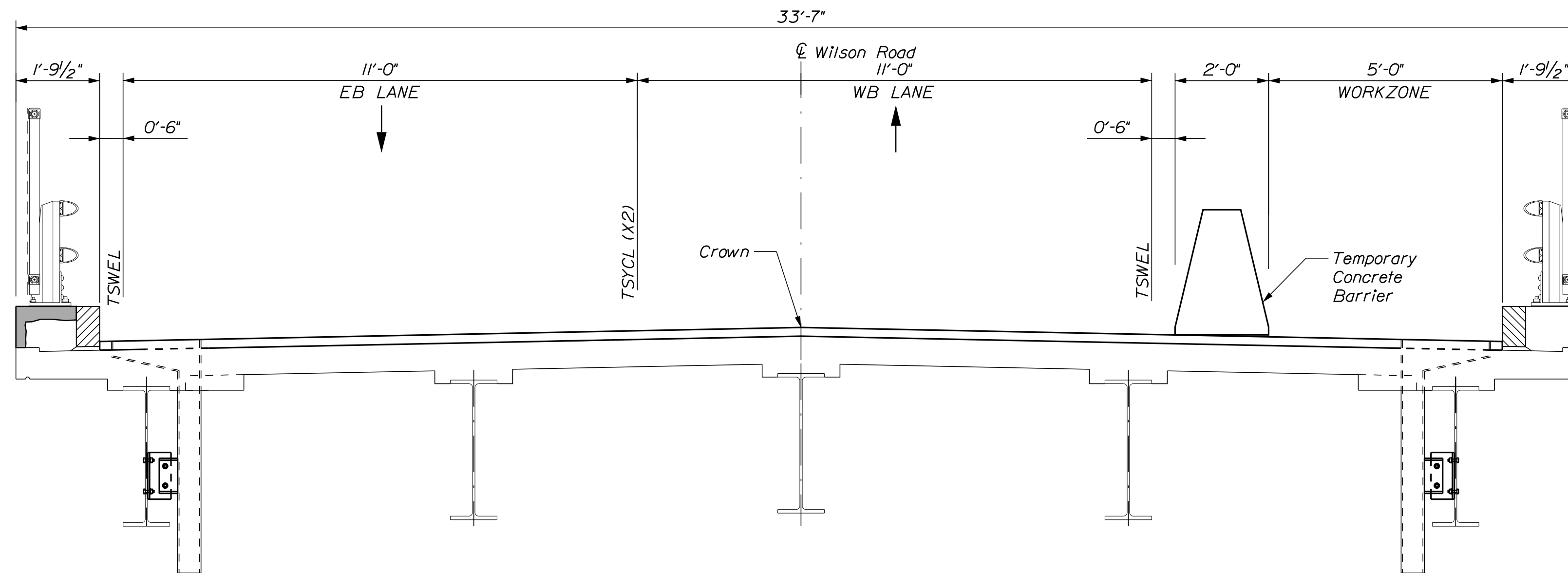
SHEET NUMBER: 7
 7 OF 38

Date: 4/29/2022



SOUTH SIDE CURB REPAIR CRITICAL SECTION

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



NORTH SIDE CURB REPAIR CRITICAL SECTION

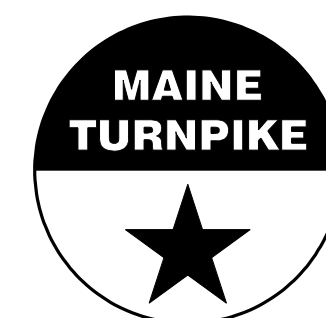
Scale: 1/2" = 1'-0"

Scale: AS NOTED

Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
CURB REPAIR CRITICAL SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/15/22	Checked	GME	4/15/22
Drawn	DPD	4/15/22	In Charge of	TSB	4/15/22

VHB: 55345.00

SHEET NUMBER: **8**

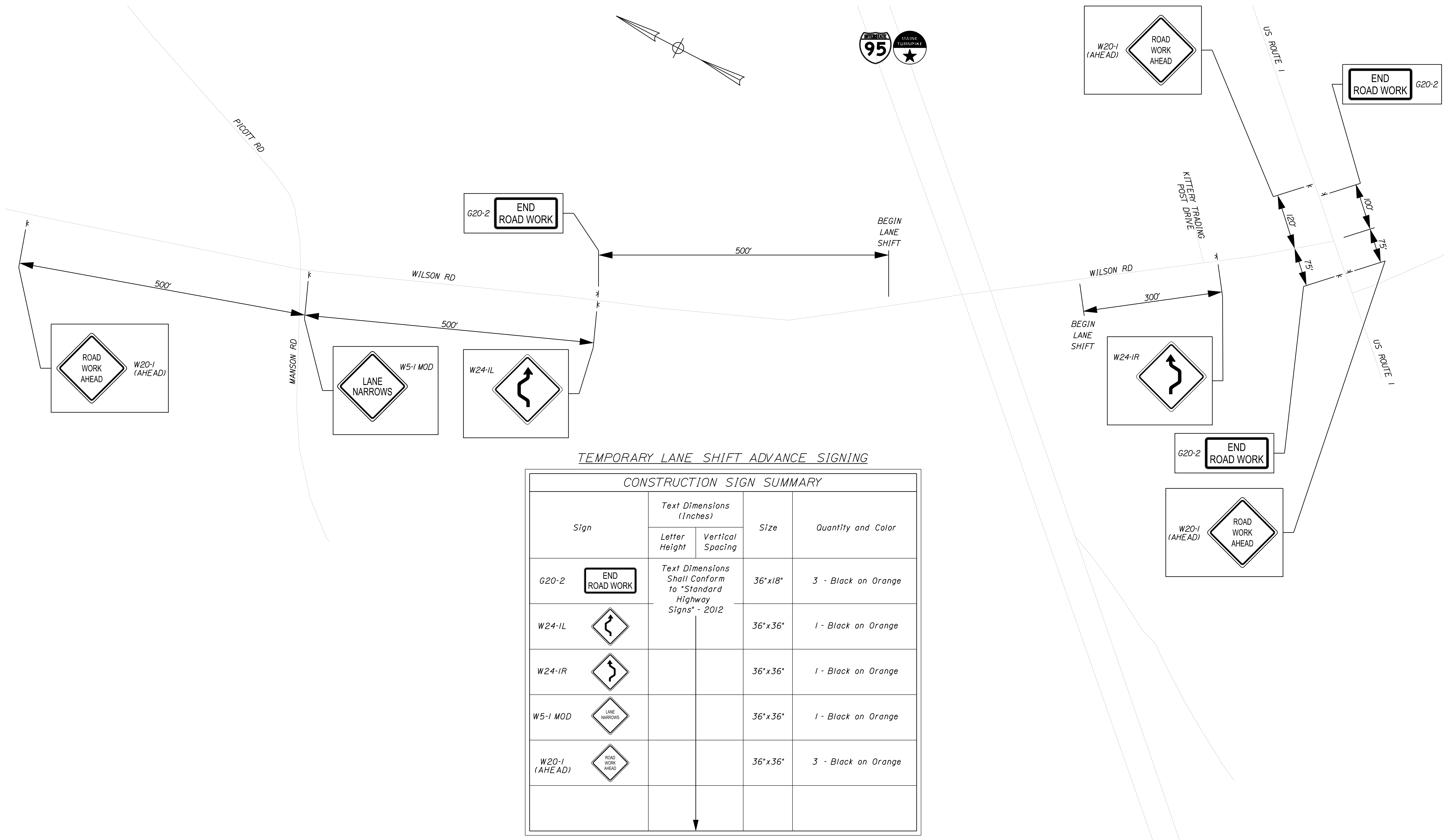
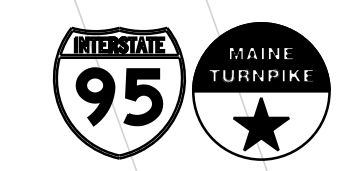
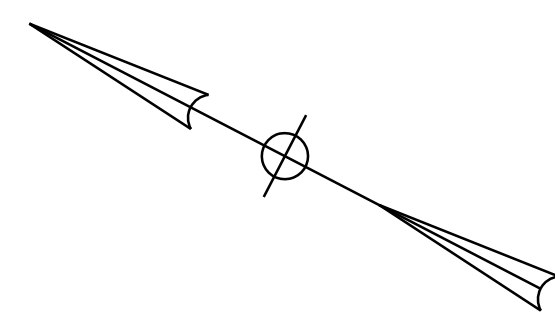
CONTRACT: 2022.12

8 OF 38

Filename: ...008_BTyp_Traffic_01.dgn

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

Date: 4/29/2022



TEMPORARY LANE SHIFT ADVANCE SIGNING

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		36"x18"	3 - Black on Orange
W24-IL			36"x36"	1 - Black on Orange
W24-IR			36"x36"	1 - Black on Orange
W5-1 MOD			36"x36"	1 - Black on Orange
W20-1 (AHEAD)			36"x36"	3 - Black on Orange

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

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

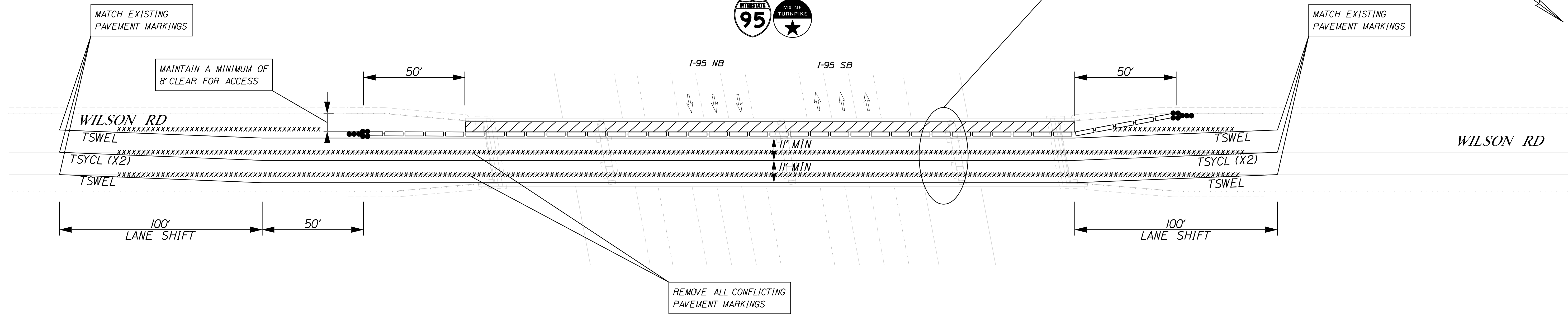
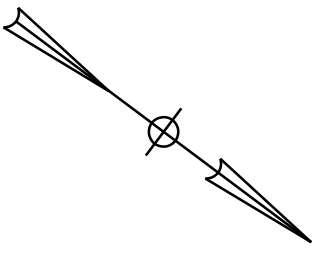
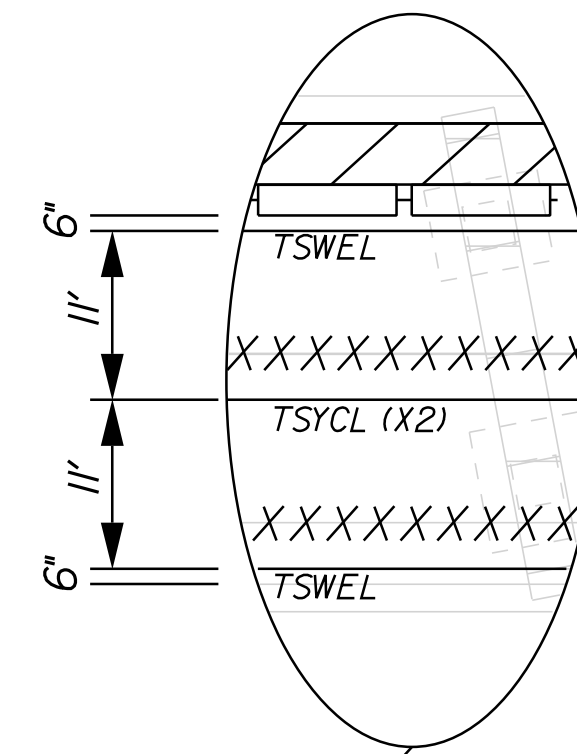
MTA PROJECT NO. 2022.12
 WILSON ROAD UNDERPASS
 AT MM 2.0 IN YORK, ME
 SIGNING FOR TEMPORARY LANE SHIFT

VHB: 55345.00
 CONTRACT: 2022.12

SHEET NUMBER: 9
 9 OF 38

Date: 4/29/2022

PAVEMENT MARKING DETAIL




LEGEND	
	CONSTRUCTION AREA
	PORTABLE CONCRETE BARRIER
	CHANNELIZATION DEVICES
	IMPACT ATTENUATION DEVICE
	TYPE III BARRICADE

NOTE:
 THIS PLAN SHOWS THE TEMPORARY TRAFFIC CONTROL FOR THE REPAIR OF THE SOUTH SIDE CURB. THE TEMPORARY TRAFFIC CONTROL FOR THE NORTH SIDE CURB SHALL BE SIMILAR (SEE CURB REPAIR CRITICAL SECTIONS). MODIFY ADVANCED SIGNING TO SHOW PROPER ALIGNMENT OF W24-1 SIGNS.

Scale: 25 0 25 50			
No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

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

MTA PROJECT NO. 2022.12
 WILSON ROAD UNDERPASS
 AT MM 2.0 IN YORK, ME
 TEMPORARY LANE SHIFT

VHB: 55345.00
 CONTRACT: 2022.12

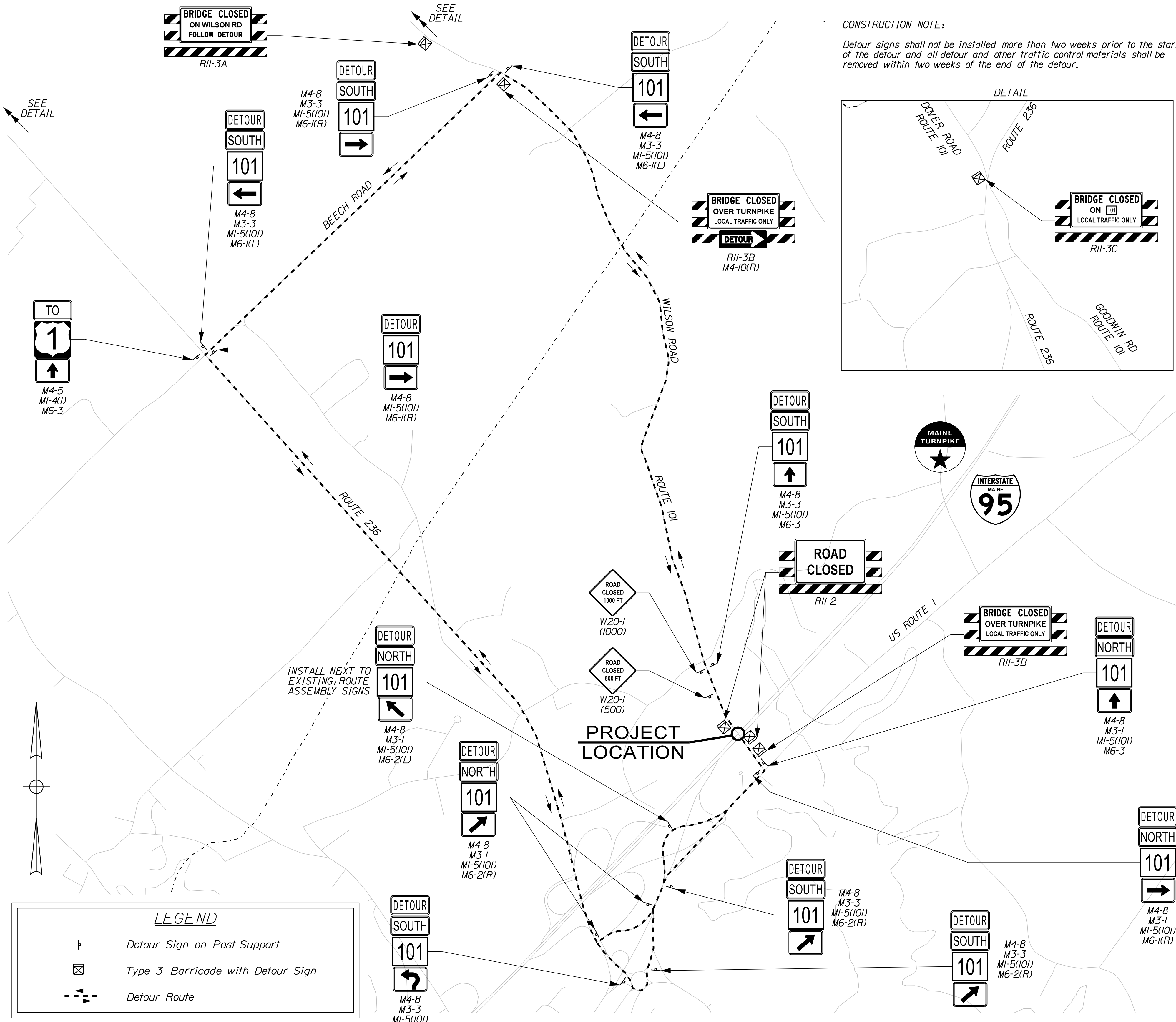
SHEET NUMBER: 10
 10 OF 38

DETOUR FOR WILSON ROAD UNDERPASS CLOSURE

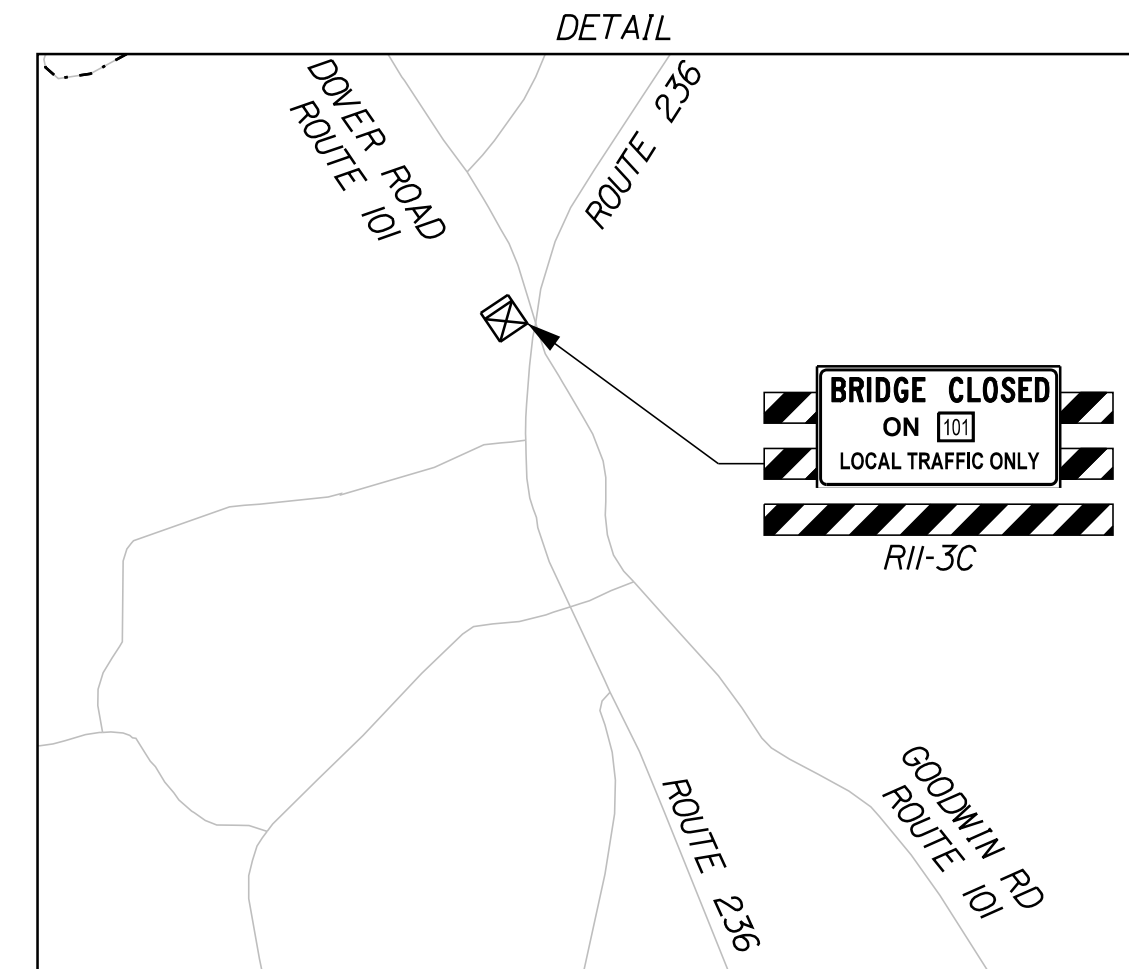
DETOUR SIGN SUMMARY

Sign	Text Dimensions (Inches)		Size	Quantity and Color	
	Letter Height	Vertical Spacing			
M1-4(1)		SHSB	24"x24"	1 - Black on White	
M1-5(101)			30"x24"	13 - Black on White	
M3-1			24"x12"	5 - Black on White	
M3-3			24"x12"	7 - Black on White	
M4-5			24"x12"	1 - Black on White	
M4-8			24"x12"	13 - Black on Orange	
M4-10R			48"x18"	1 - Black on Orange on Black	
M5-3			21"x15"	1 - Black on White	
M6-1(L)			21"x15"	2 - Black on White	
M6-1(R)			21"x15"	3 - Black on White	
M6-2(L)			21"x15"	1 - Black on White	
M6-2(R)			21"x15"	4 - Black on White	
M6-3			21"x15"	3 - Black on White	
W20-1 (1000)			36"x36"	1 - Black on Orange	
W20-1 (500)			36"x36"	1 - Black on Orange	
R11-2			48"x30"	2 - Black on White	
R11-3A		6" 5" 4"	3.38" 3.38"	60"x30"	1 - Black on White
R11-3B		6" 5" 4"	3.38" 3.38"	60"x30"	2 - Black on White
R11-3C		6" 5" 4"	3.38" 3.38"	60"x30"	1 - Black on White

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

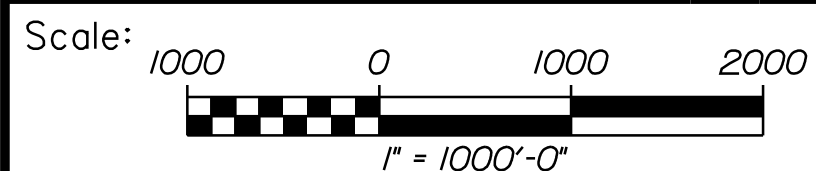


CONSTRUCTION NOTE:
Detour signs shall not be installed more than two weeks prior to the start of the detour and all detour and other traffic control materials shall be removed within two weeks of the end of the detour.



Date: 4/29/2022

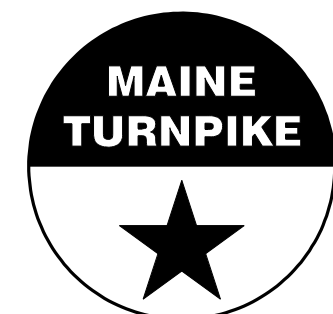
Filename: ...011_Detour_02.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
DETOUR PLAN

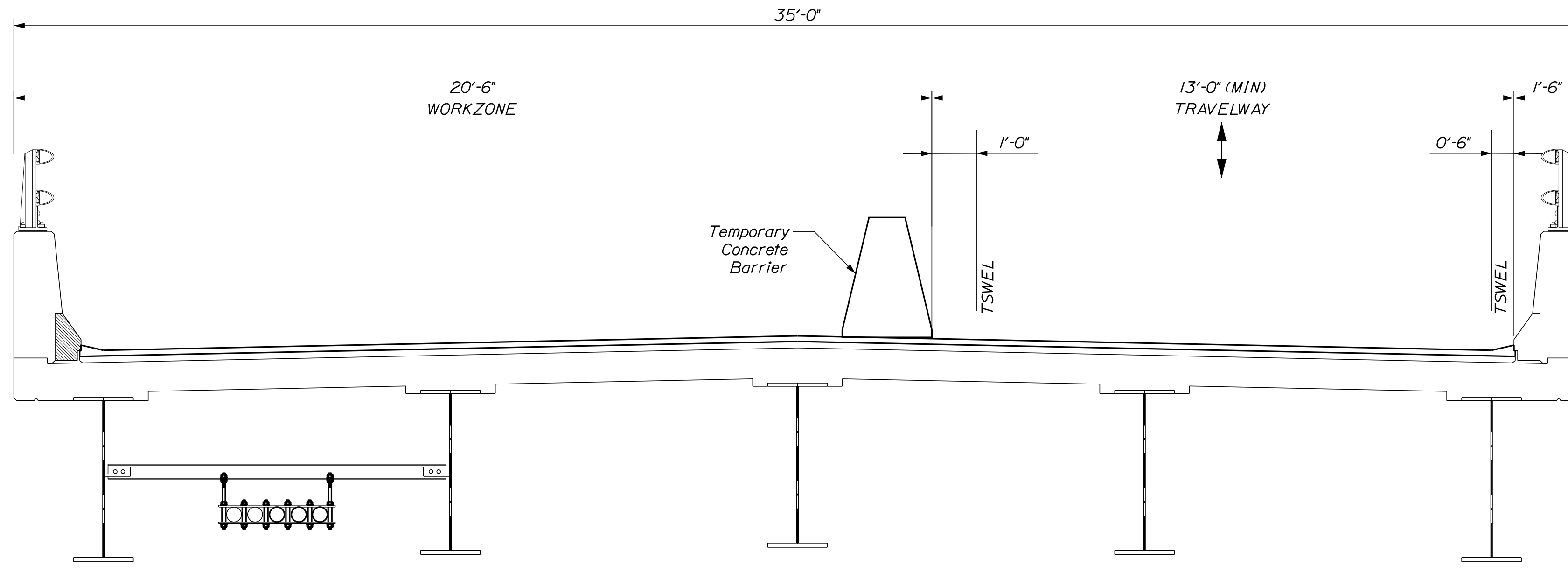
CONSULTANT PROJECT MANAGER: G. Edington					
No.	Revision	By	Date	By	Date

VHB: 55345.00
CONTRACT: 2022.12

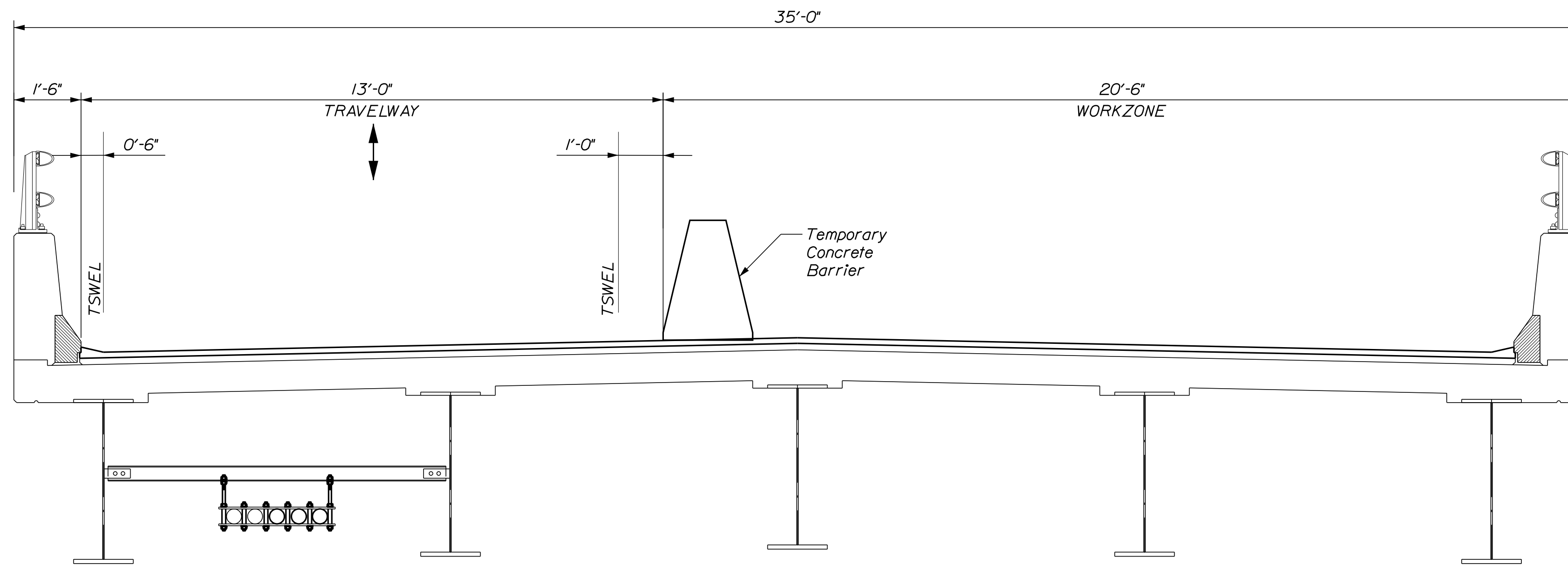
SHEET NUMBER: 11
11 OF 38

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

Date: 4/29/2022

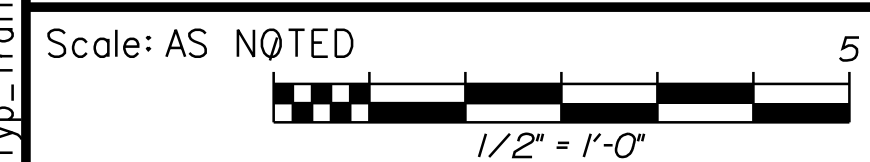


PHASE 1
TRAFFIC CONTROL SECTION
 Scale: 1/2" = 1'-0"



PHASE 2
TRAFFIC CONTROL SECTION
 Scale: 1/2" = 1'-0"

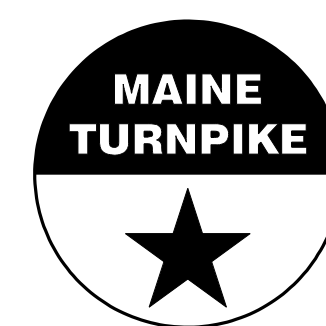
Filename: ...012_BTyp_Traffic_01.dgn



Designed by:



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 FAX (207) 253-5596



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12
 LITTLEFIELD ROAD UNDERPASS
 AT MM 17.3 IN WELLS, ME
 LANE CLOSURE CRITICAL SECTION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	4/15/22	Checked	GME	4/15/22
Drawn	DPD	4/15/22	In Charge of	TSB	4/15/22

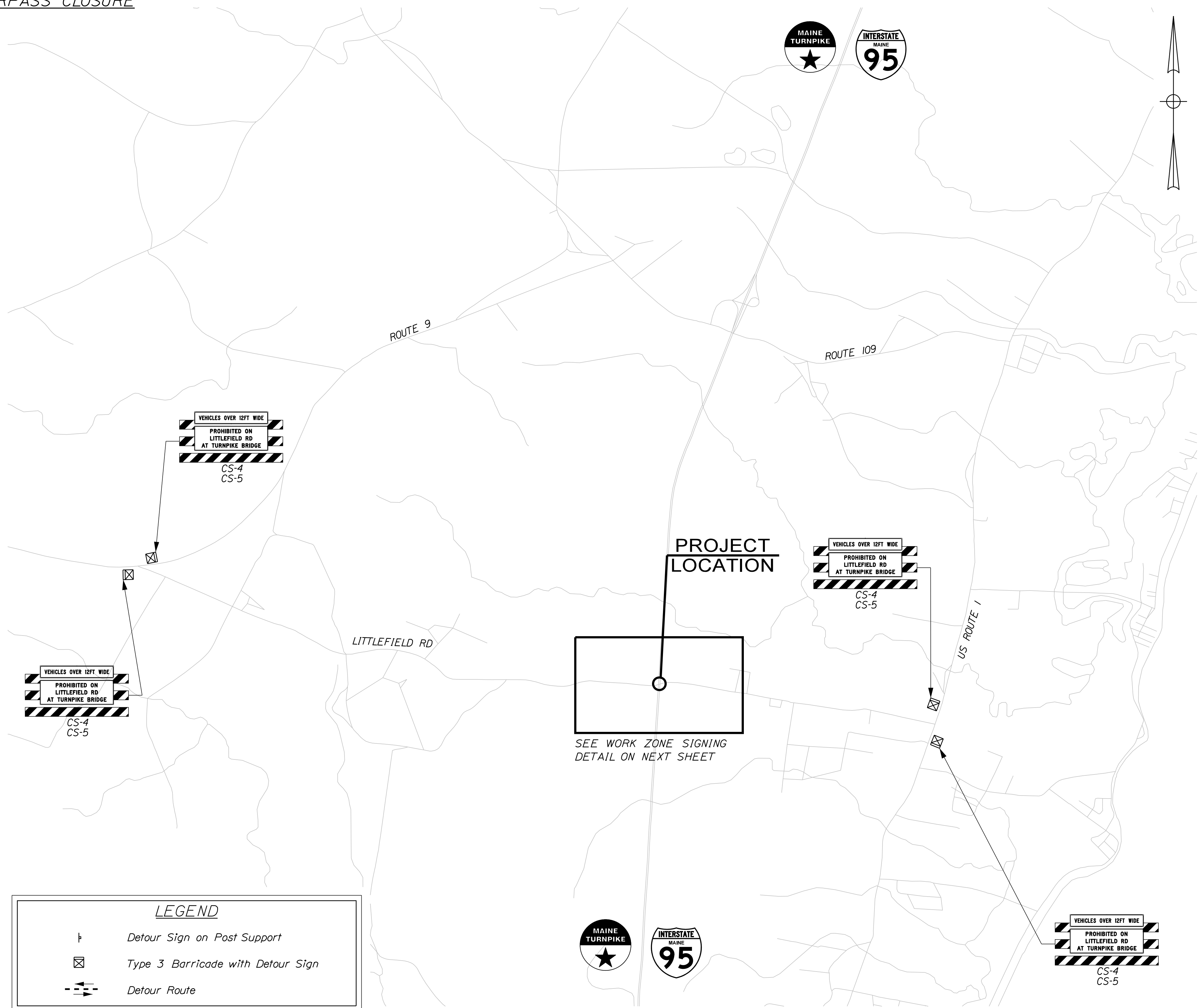
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

OVERSIZED VEHICLE DETOUR FOR LITTLEFIELD ROAD UNDERPASS CLOSURE

DETOUR SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-4	6	6 6	96"x18"	4 - Black on Orange
CS-5	6 6 6	4.5 4.5 4.5	96"x36"	4 - Black on White
G20-2	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		36"x18"	2 - Black on Orange
R10-6			24"x36"	2 - Black on White
W3-3			36"x36"	2 - Black on Orange (Red/Yellow/Green)
W5-3			36"x36"	2 - Black on Orange

TRAFFIC CONTROL NOTES:

- Advanced signing for the temporary signal system shall not be installed more than 2 days prior to the activation of the temporary signal system and shall be removed immediately after the removal of the temporary signal system.
- The wide vehicle prohibition signs shall be in place anytime the available roadway width is less than 14'-0".



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

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

Scale: 1" = 1500'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	4/29/22	Checked	MDS	4/29/22
Drawn	JAR	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

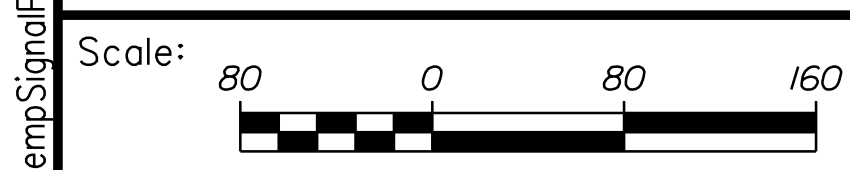
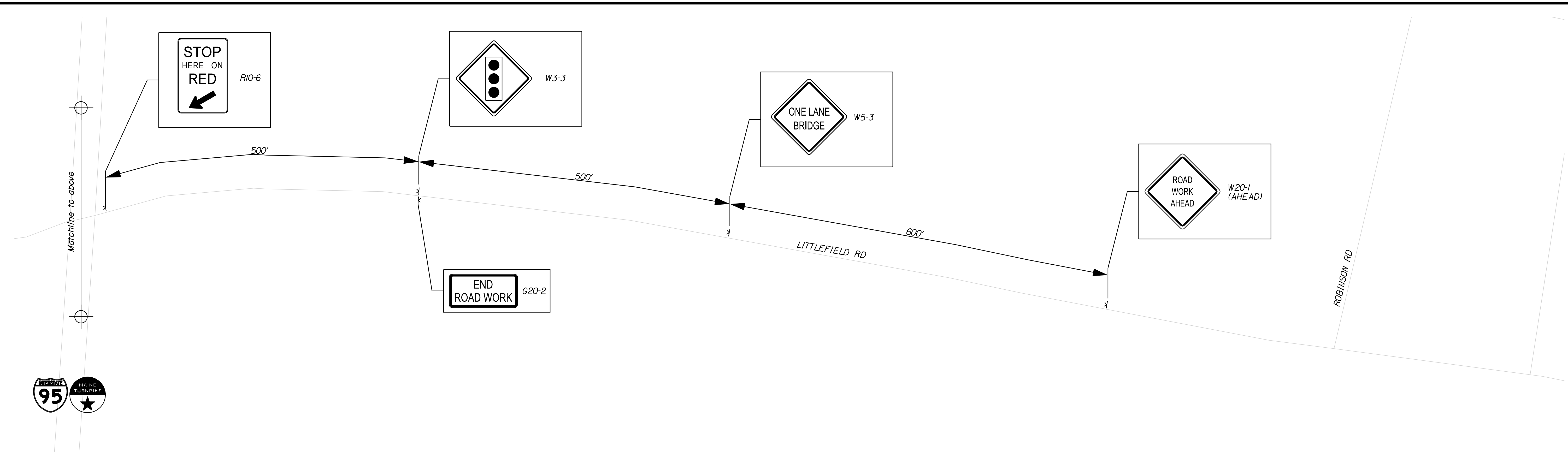
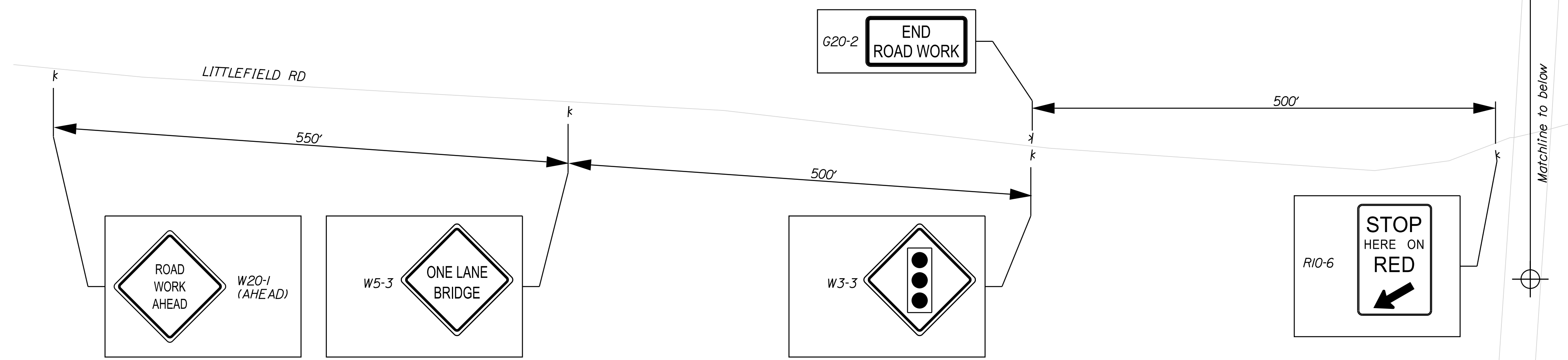
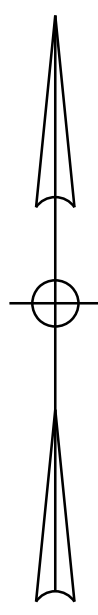
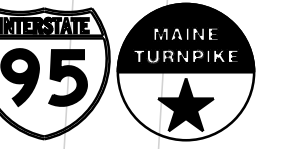
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
 LITTLEFIELD ROAD UNDERPASS
 AT MM 17.3 IN WELLS, ME
 SIGNING FOR TEMPORARY SIGNAL 1 OF 2

VHB: 55345.00 SHEET NUMBER: 13
 CONTRACT: 2022.12 13 OF 38

Date: 4/29/2022
 Filename: ...\\013_Detour_01.dgn

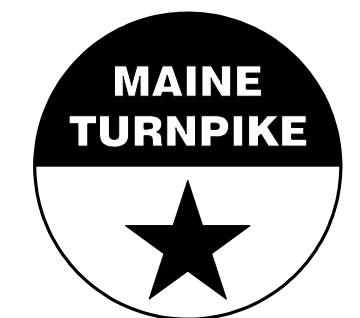
Date: 4/29/2022



Designed by:



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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 NO. 2022.12
 LITTLEFIELD ROAD UNDERPASS
 AT MM 17.3 IN WELLS, ME
 SIGNING FOR TEMPORARY SIGNAL 2 OF 2

No.	Revision	By	Date

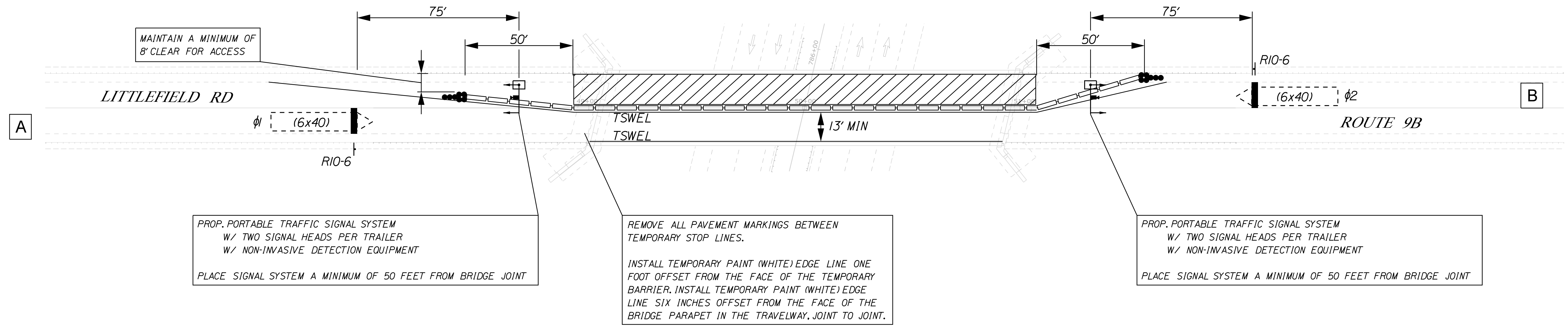
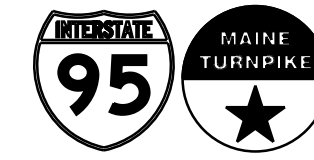
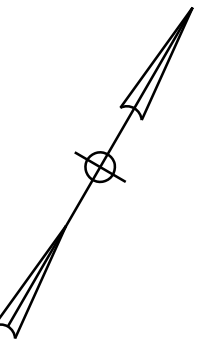
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	4/29/22		GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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

VHB: 55345.00
 CONTRACT: 2022.12
 SHEET NUMBER: 14
 14 OF 38

Filename: ...014_TempSignalPlan_01.dgn

Date: 4/29/2022

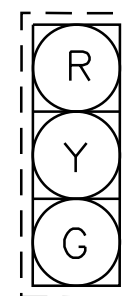


PROP. PORTABLE TRAFFIC SIGNAL SYSTEM
W/ TWO SIGNAL HEADS PER TRAILER
W/ NON-INVASIVE DETECTION EQUIPMENT
PLACE SIGNAL SYSTEM A MINIMUM OF 50 FEET FROM BRIDGE JOINT

REMOVE ALL PAVEMENT MARKINGS BETWEEN
TEMPORARY STOP LINES.
INSTALL TEMPORARY PAINT (WHITE) EDGE LINE ONE
FOOT OFFSET FROM THE FACE OF THE TEMPORARY
BARRIER. INSTALL TEMPORARY PAINT (WHITE) EDGE
LINE SIX INCHES OFFSET FROM THE FACE OF THE
BRIDGE PARAPET IN THE TRAVELWAY, JOINT TO JOINT.

PROP. PORTABLE TRAFFIC SIGNAL SYSTEM
W/ TWO SIGNAL HEADS PER TRAILER
W/ NON-INVASIVE DETECTION EQUIPMENT
PLACE SIGNAL SYSTEM A MINIMUM OF 50 FEET FROM BRIDGE JOINT

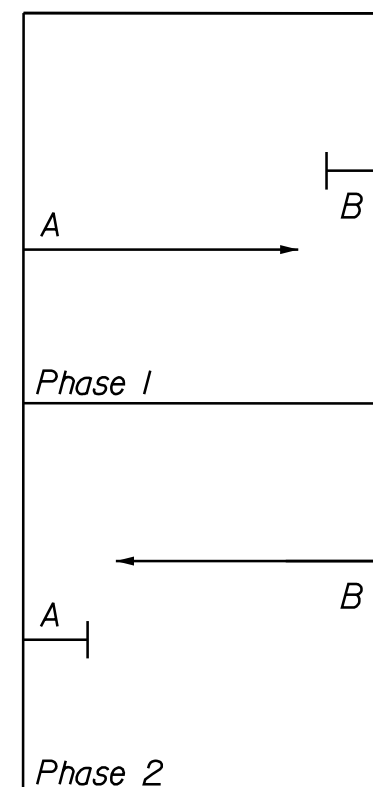
PROPOSED INDICATIONS



A1, A2
B1, B2

NOTE:
ALL INDICATIONS SHALL BE 12" LIGHT
EMITTING DIODES (LED'S) WITH 5" LOUVERED
BACKPLATES

PHASE DIAGRAM



PROPOSED TEMPORARY NEMA 4 PHASE CONTROLLER
SIGNAL PHASING & TIMING

	PHASE 1	PHASE 2
MIN GREEN	10	10
EXTENSION	4	4
MAX 1	30	30
MAX 2	-	-
VEH CLEAR	4	4
RED CLEAR	13	13
WALK	-	-
PED CLEAR	-	-
FLASH	FR	FR
RECALL	OFF	OFF
DETECTOR	NL	NL
PRE-EMPT PRIORITY	-	-

L = LOCKING
NL = NON-LOCKING

THE CONTRACTOR SHALL SET TIMING OF THE
TEMPORARY TRAFFIC SIGNAL PER TIMING
DATA PROVIDED. SIGNAL TIMING ADJUSTMENTS
SHALL BE APPROVED BY THE RESIDENT AND
ACCOMPLISHED AS DIRECTED BY THE
RESIDENT. PAYMENT FOR ALL SIGNAL TIMING
ADJUSTMENTS SHALL BE INCIDENTAL TO THE
TRAFFIC SIGNAL SYSTEM.

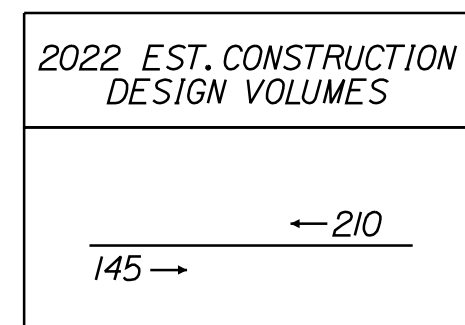
NOTES:

- SEE LITTLEFIELD ROAD UNDERPASS TEMPORARY SIGNAL PLAN ADVANCE SIGNING FOR APPROACH SIGNS.
- ADJUSTMENTS TO THE LOCATIONS OF THE STOP LINES RELATIVE TO THE BRIDGE JOINTS SHALL BE APPROVED BY THE RESIDENT AND MAY AFFECT THE PROPOSED SIGNAL TIMING.
- THE TEMPORARY TRAILER MOUNTED SIGNAL SYSTEM IS SHOWN AS A FEASIBLE OPTION FOR TRAFFIC CONTROL. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHOD FOR MAINTAINING TRAFFIC DURING BRIDGE REPAIRS. ALL COSTS FOR MAINTENANCE OF TRAFFIC AT THE LITTLEFIELD ROAD BRIDGE SHALL BE INCIDENTAL TO ITEM 643.72.

PROPOSED POST MOUNTED SIGNS

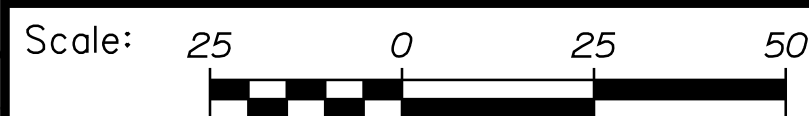


R10-6
24"x36"
2-PROPOSED



LEGEND

- CONSTRUCTION AREA
- PORTABLE CONCRETE BARRIER
- CHANNELIZATION DEVICES
- IMPACT ATTENUATION DEVICE
- VEHICLE DETECTION ZONE
- PORTABLE TRAFFIC SIGNAL TRAILER
- TYPE III BARRICADE



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
TEMPORARY SIGNAL PLAN - PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	By	Date	
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

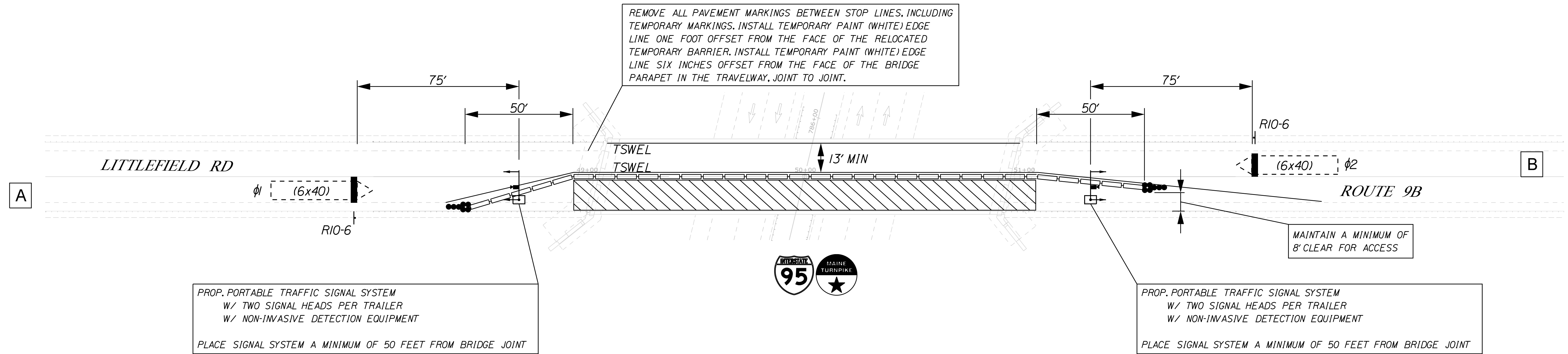
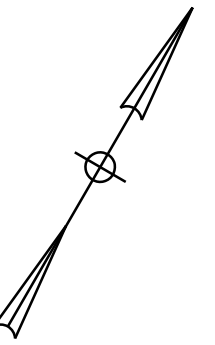
VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 15
15 OF 38

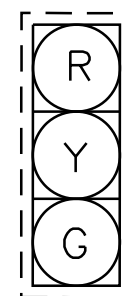
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

Filename: ...015_TempSignalPlan_02.dgn

Date: 4/29/2022



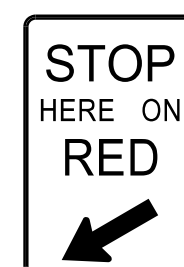
PROPOSED INDICATIONS



A1, A2
B1, B2

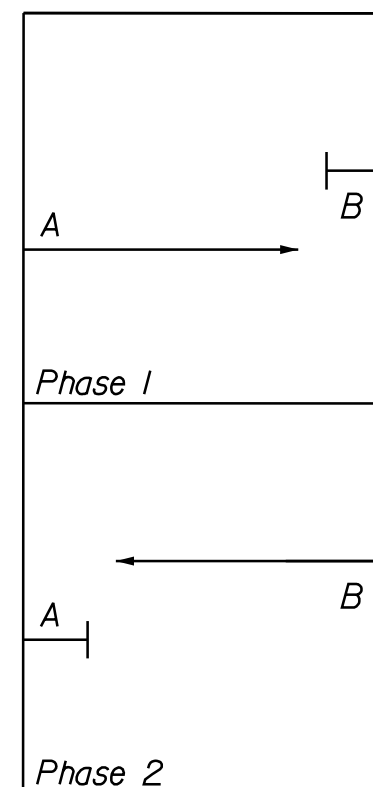
NOTE:
ALL INDICATIONS SHALL BE 12" LIGHT EMITTING DIODES (LED'S) WITH 5' LOUVERED BACKPLATES

PROPOSED POST MOUNTED SIGNS



R10-6
24"x36"
2-PROPOSED

PHASE DIAGRAM



PROPOSED TEMPORARY NEMA 4 PHASE CONTROLLER SIGNAL PHASING & TIMING

	PHASE 1	PHASE 2
MIN GREEN	10	10
EXTENSION	4	4
MAX 1	30	30
MAX 2	-	-
VEH CLEAR	4	4
RED CLEAR	13	13
WALK	-	-
PED CLEAR	-	-
FLASH	FR	FR
RECALL	OFF	OFF
DETECTOR	NL	NL
PRE-EMPT PRIORITY	-	-

L = LOCKING
NL = NON-LOCKING

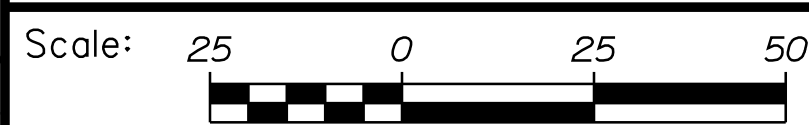
THE CONTRACTOR SHALL SET TIMING OF THE TEMPORARY TRAFFIC SIGNAL PER TIMING DATA PROVIDED. SIGNAL TIMING ADJUSTMENTS SHALL BE APPROVED BY THE RESIDENT AND ACCOMPLISHED AS DIRECTED BY THE RESIDENT. PAYMENT FOR ALL SIGNAL TIMING ADJUSTMENTS SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL SYSTEM.

NOTES:

- SEE LITTLEFIELD ROAD UNDERPASS TEMPORARY SIGNAL PLAN ADVANCE SIGNING FOR APPROACH SIGNS.
- ADJUSTMENTS TO THE LOCATIONS OF THE STOP LINES RELATIVE TO THE BRIDGE JOINTS SHALL BE APPROVED BY THE RESIDENT AND MAY AFFECT THE PROPOSED SIGNAL TIMING.
- THE TEMPORARY TRAILER MOUNTED SIGNAL SYSTEM IS SHOWN AS A FEASIBLE OPTION FOR TRAFFIC CONTROL. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHOD FOR MAINTAINING TRAFFIC DURING BRIDGE REPAIRS. ALL COSTS FOR MAINTENANCE OF TRAFFIC AT THE LITTLEFIELD ROAD BRIDGE SHALL BE INCIDENTAL TO ITEM 643.72.

LEGEND

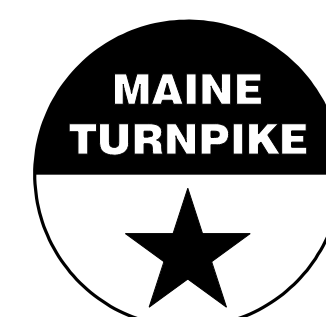
- CONSTRUCTION AREA
- PORTABLE CONCRETE BARRIER
- CHANNELIZATION DEVICES
- IMPACT ATTENUATION DEVICE
- VEHICLE DETECTION ZONE
- PORTABLE TRAFFIC SIGNAL TRAILER
- TYPE III BARRICADE



Designed by:



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FAX (207) 253-5596



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
TEMPORARY SIGNAL PLAN - PHASE 2

No.	Revision	By	Date

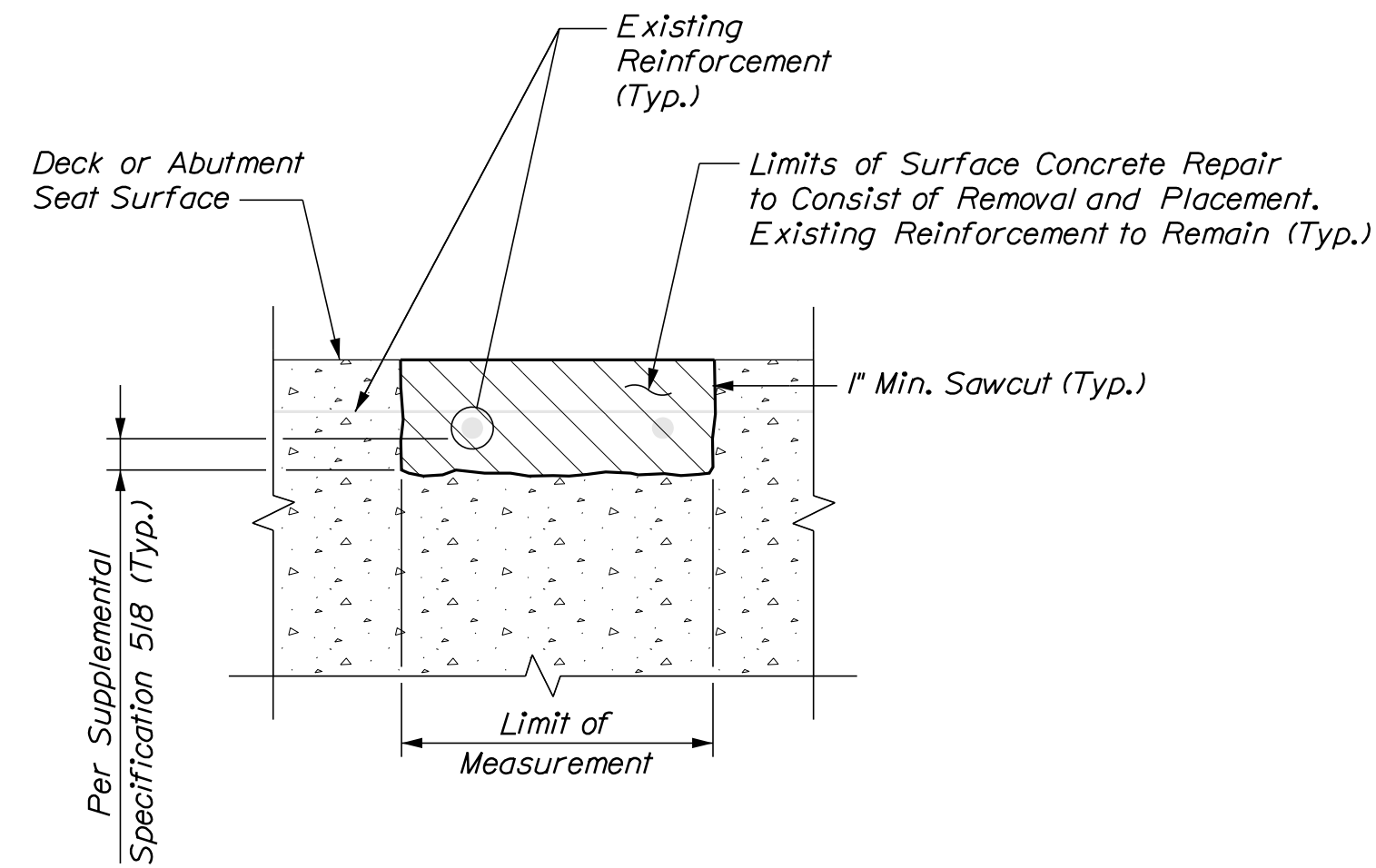
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	4/29/22		GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

VHB: 55345.00
CONTRACT: 2022.12

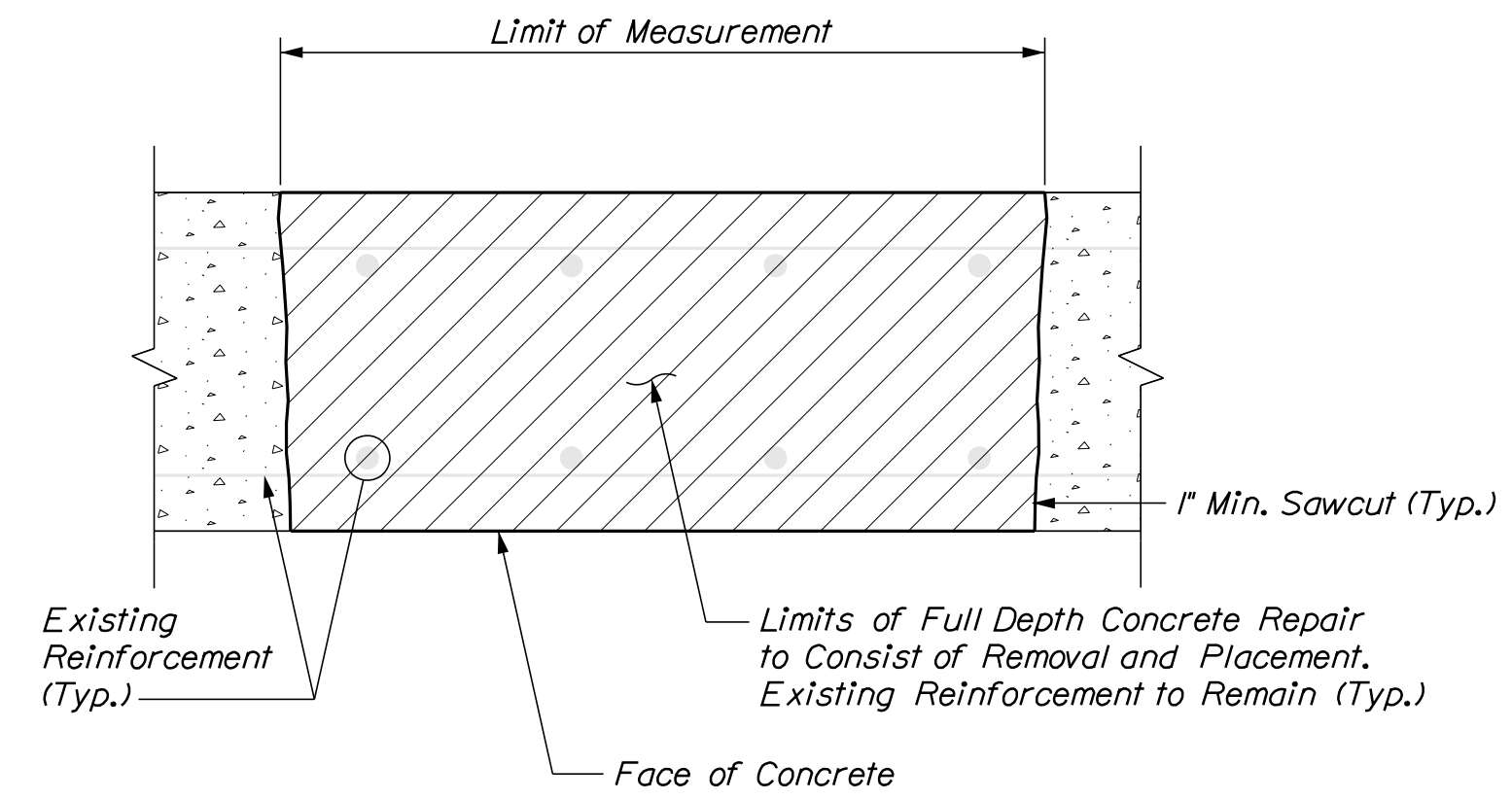
SHEET NUMBER: 16
16 OF 38

Filename: ...016_TempSignalPlan_03.dgn

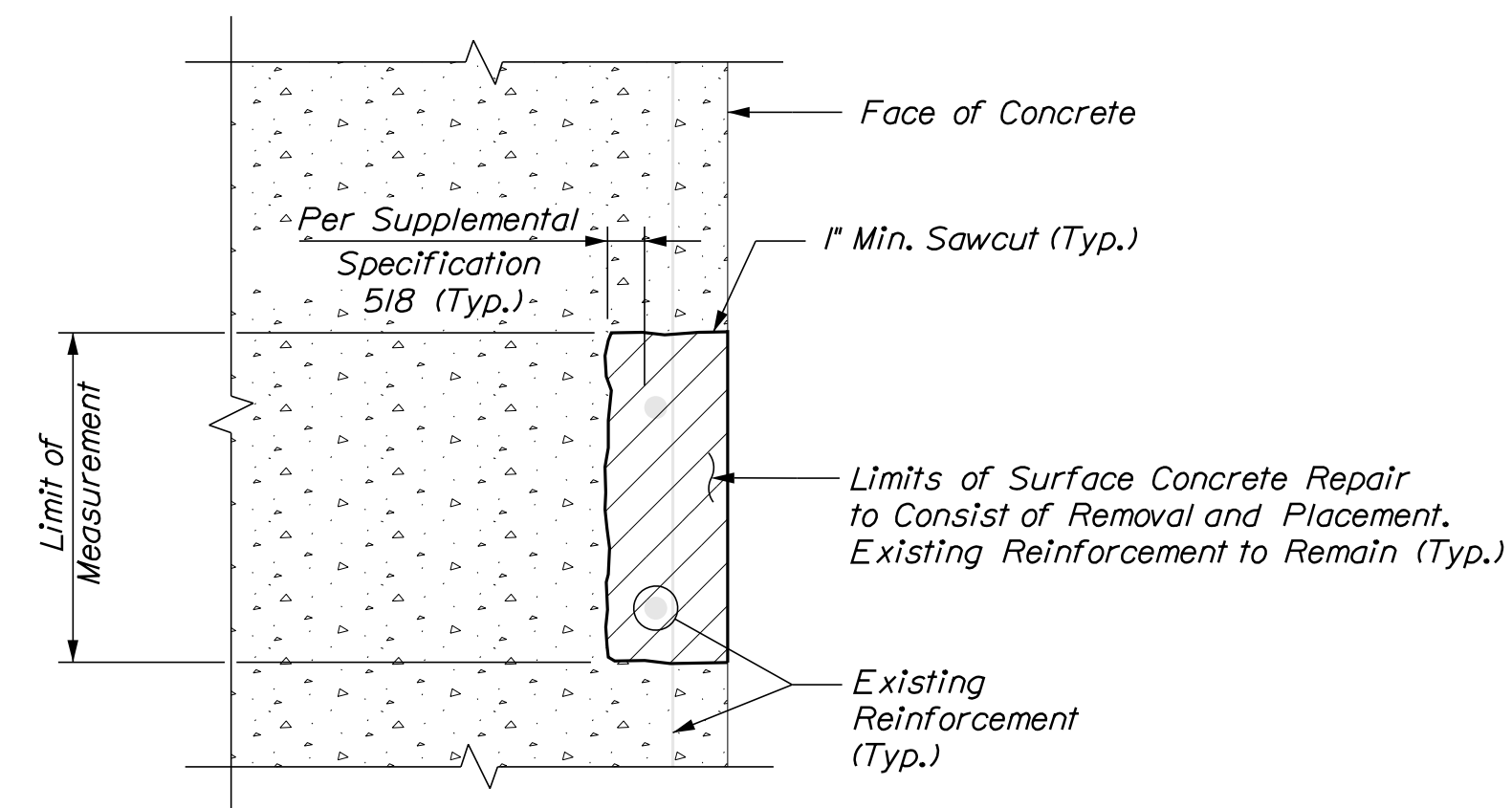
Date: 4/29/2022



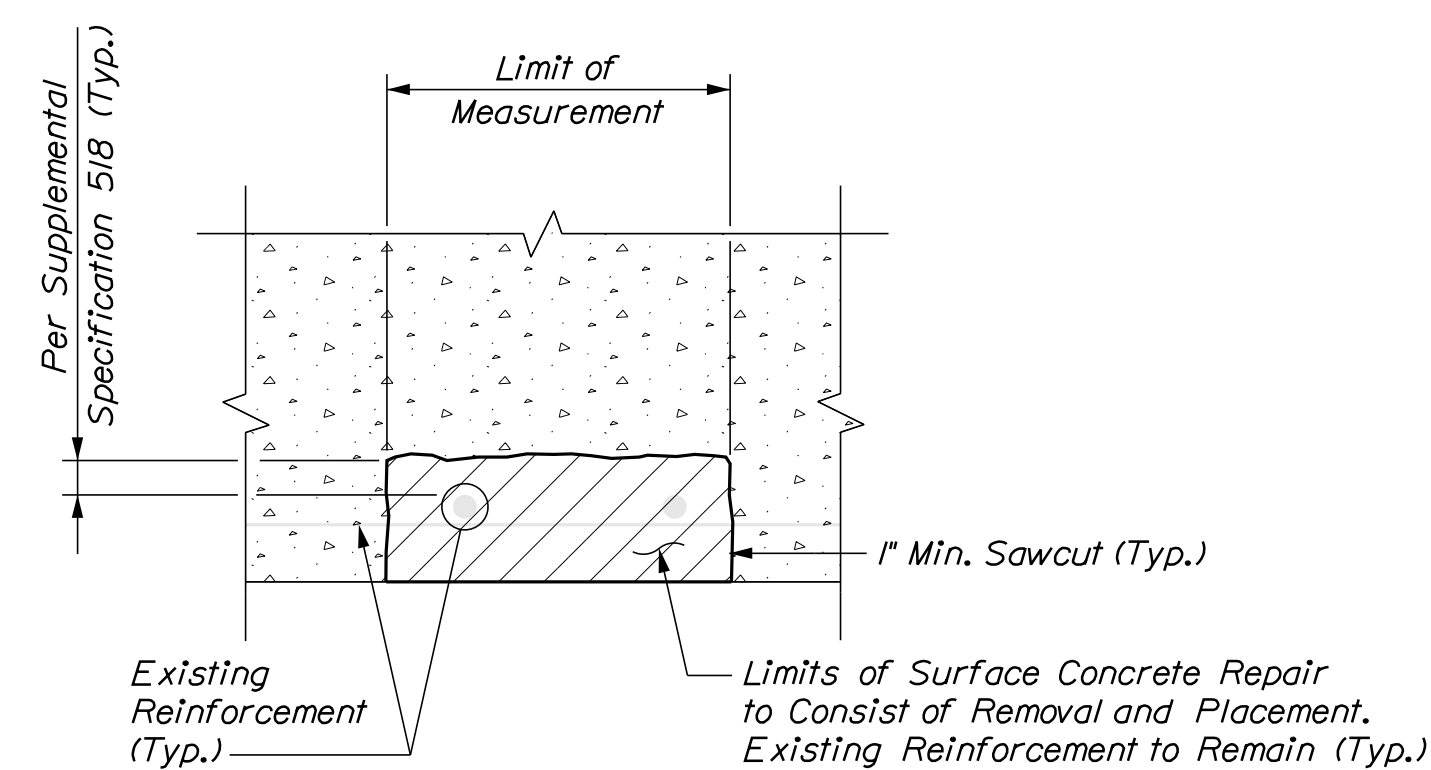
TYPICAL HORIZONTAL SURFACE CONCRETE REPAIR DETAILS



TYPICAL FULL DEPTH CONCRETE REPAIR DETAILS



TYPICAL VERTICAL SURFACE CONCRETE REPAIR DETAILS



TYPICAL OVERHEAD SURFACE CONCRETE REPAIR DETAILS

KEY

- Existing Concrete
- Proposed Concrete

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, 518.10 Abutment Repairs, 518.20 Pier Repairs, 518.75 Fascia and Overhang Repairs, 518.70 Repair of Overhead Surfaces <8 inches, and 518.80 Partial Depth Concrete Deck Repair, and 518.81 Full Depth 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.

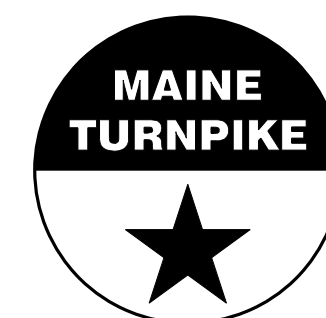
Filename: ...\\017_concrecrepair.dgn

Scale: NOT TO SCALE

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12

CONCRETE REPAIR TYPICAL DETAILS

No.	Revision	By	Date

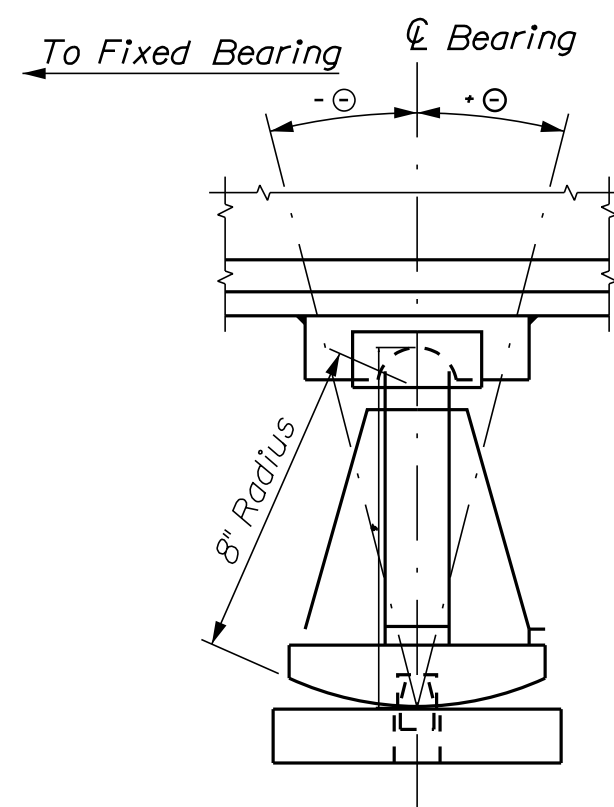
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 17
17 OF 38

Date: 4/29/2022



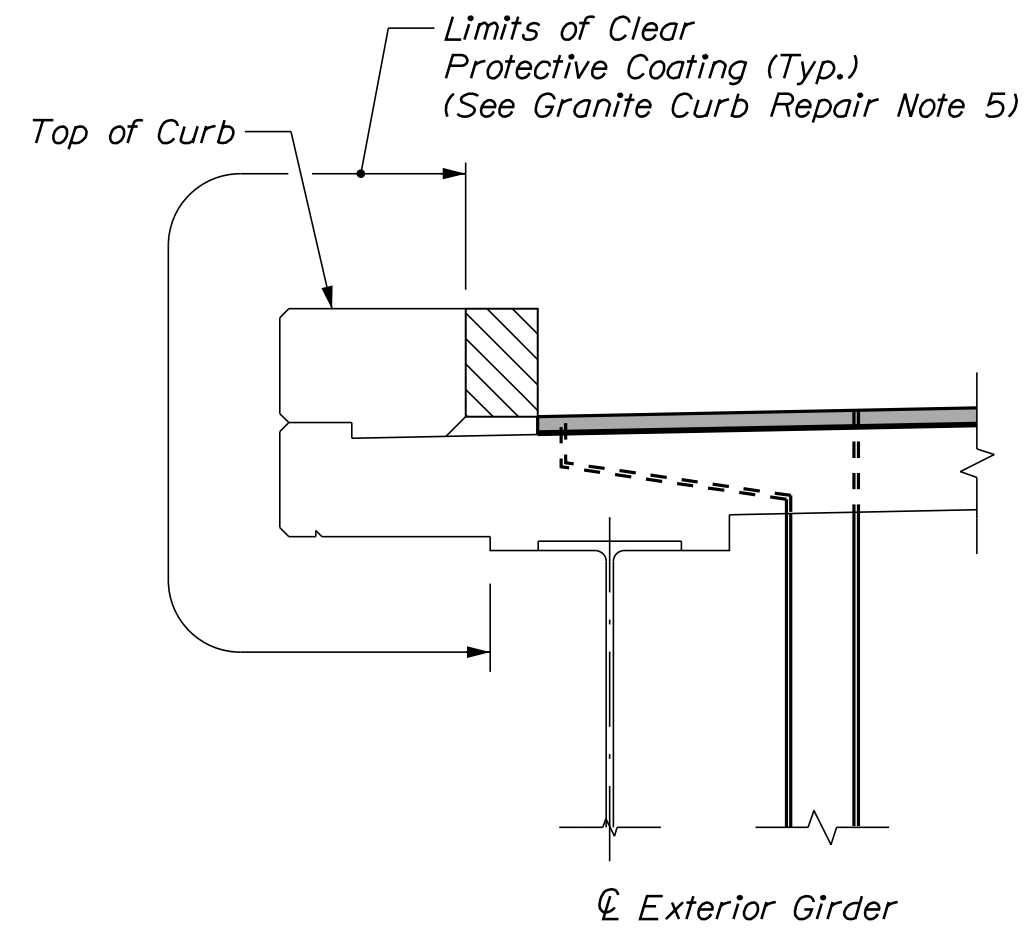
EXPANSION BEARING SETTING DIAGRAM
Not to Scale

Temp. (deg. F):	Theta (deg.) [⊖] Abutment 2
30	-1.91
40	-0.64
45	0.00
50	0.64
60	1.91
70	3.19
80	4.46
90	5.72

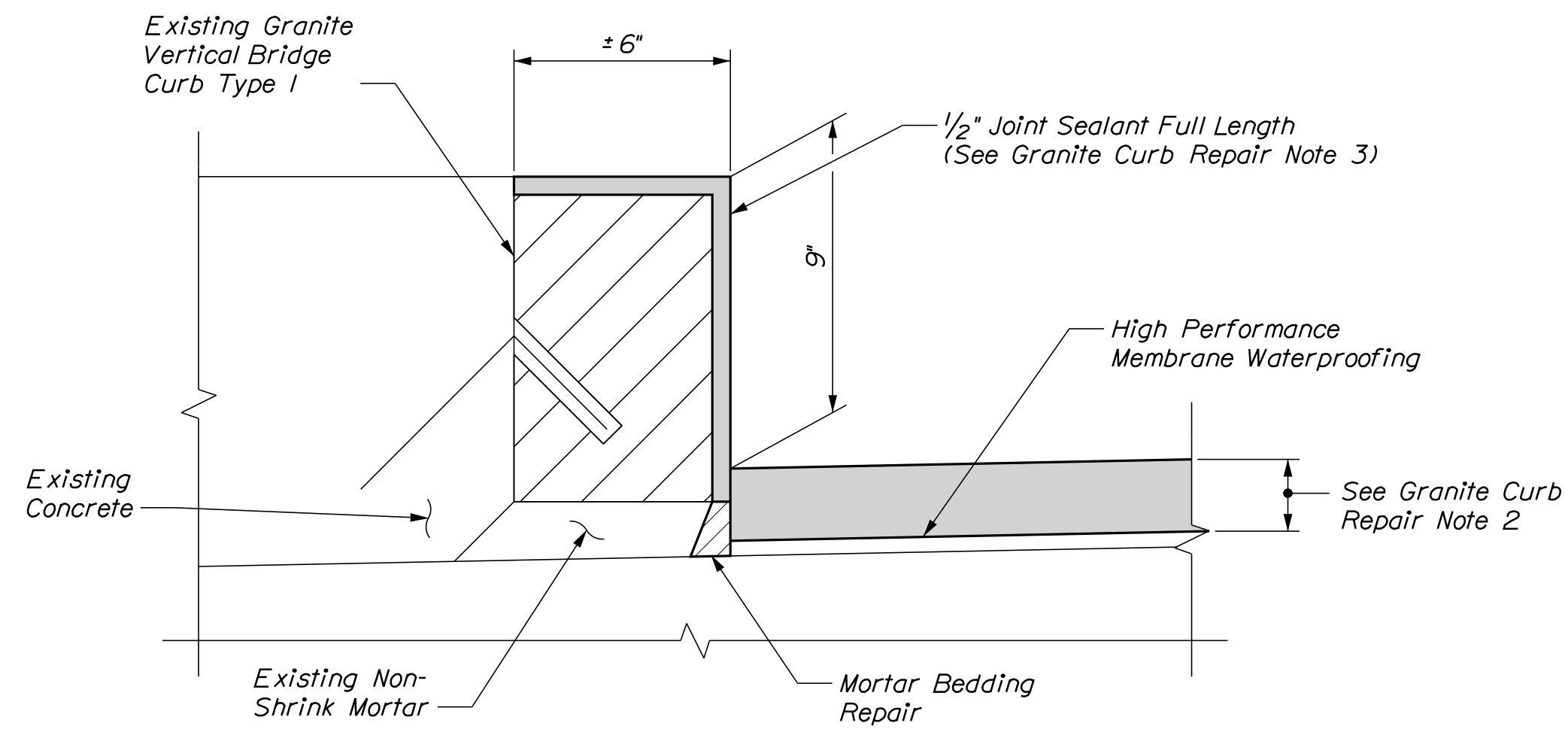
RAMP J BEARINGS TABLE

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 524.72/2, 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.



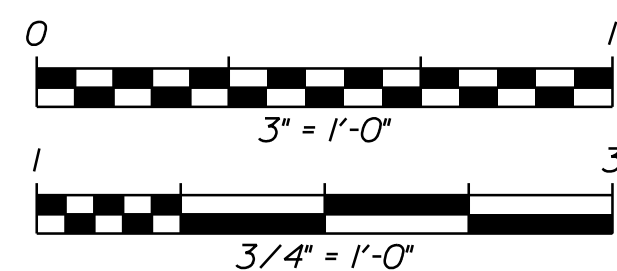
CURB DETAIL
(Bridge Rail not Shown for Clarity)
Scale: 3/4" = 1'-0"



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.



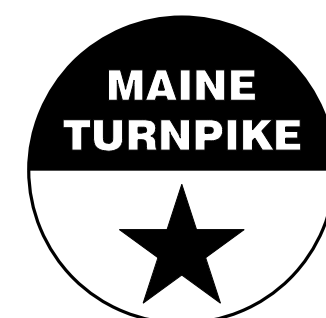
Filename: ... \018_Misc_Det_01.dgn

Scale: AS NOTED

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12

MISCELLANEOUS DETAILS

No.	Revision	By	Date

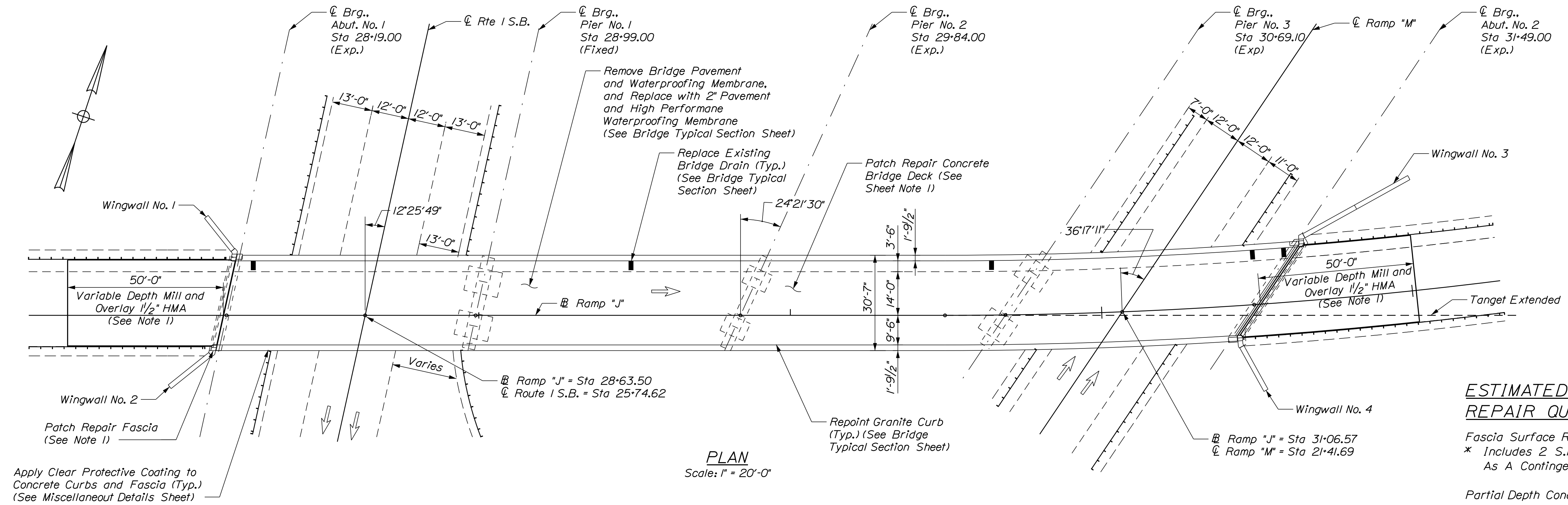
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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

VHB: 55345.00
CONTRACT: 2022.12

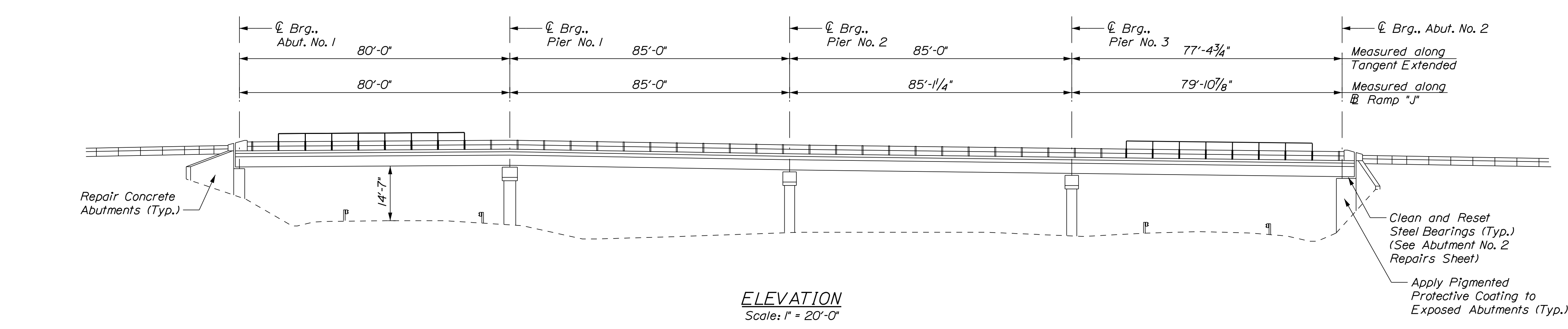
SHEET NUMBER: 18
18 OF 38

Date: 4/29/2022



ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Fascia Surface Repairs	12 *
* Includes 2 S.F. Additional Repair Quantity As A Contingency	
Partial Depth Concrete Deck Repairs	180 **
** Assumes 2% of the Deck will require Partial Depth Concrete Repairs	
Full Depth Concrete Deck Repairs	90 ***
*** Assumes 1% of the Deck will require Full Depth Concrete Repairs	



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

NOTE:
1. Mill variable depth and pave 1/2" 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: 1" = 20'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	4/15/22	Checked	GME	4/15/22
Drawn	DPD	4/15/22	In Charge of	TSB	4/15/22

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TEL (207) 889-3150
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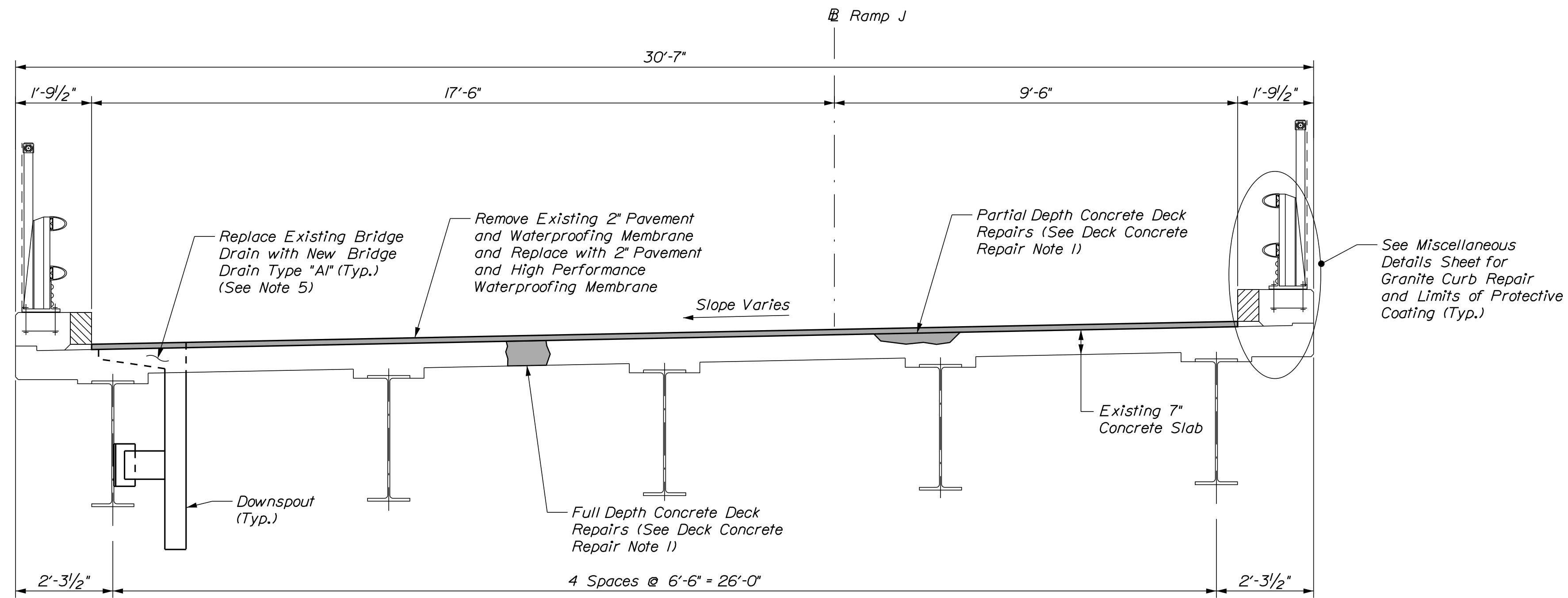
THE GOLD STAR MEMORIAL HIGHWAY

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

MTA PROJECT NO. 2022.12
RAMP "J" UNDERPASS
AT MM 1.50 IN YORK, ME
GENERAL PLAN AND ELEVATION

VHB: 55345.00
SHEET NUMBER: 19
CONTRACT: 2022.12
19 OF 38

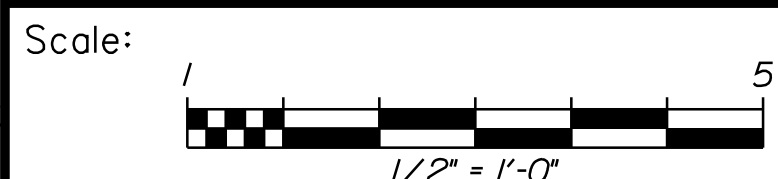
Date: 4/29/2022



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 518.80 Partial Depth Concrete Deck Repair and Item 518.81 Full Depth Concrete Deck Repairs.
2. Sawcut 1" deep along all limits of removal.
3. Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specification 518.
4. Replacing the bridge drains shall be paid for under Item 502.702, Replace Bridge Drain (Type AI).

SUPERSTRUCTURE TYPICAL SECTION



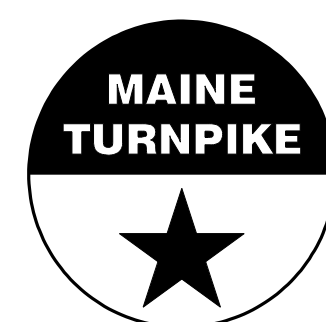
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	4/15/22	Checked	GME	4/15/22
Drawn	DPD	4/15/22	In Charge of	TSB	4/15/22

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

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

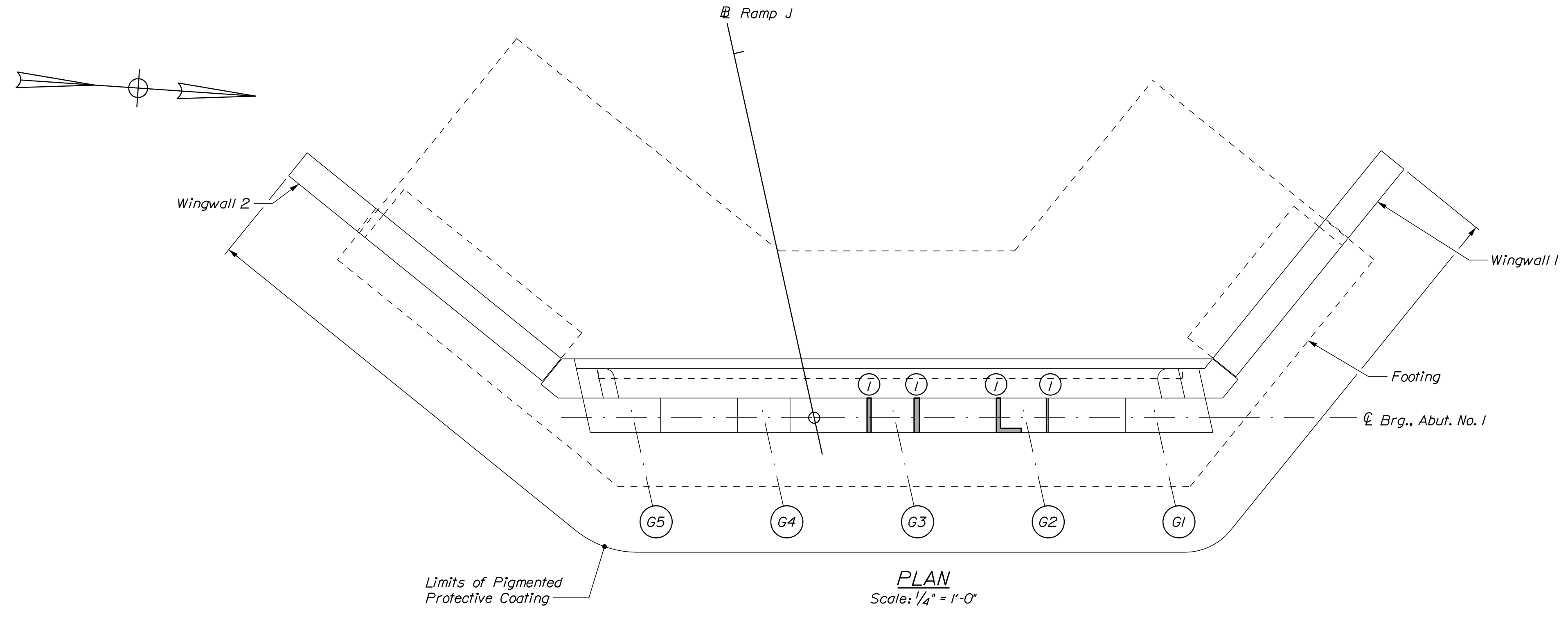
MTA PROJECT NO. 2022.12
 RAMP "J" UNDERPASS
 AT MM 1.50 IN YORK, ME
 BRIDGE TYPICAL SECTION

VHB: 55345.00
 CONTRACT: 2022.12

SHEET NUMBER: 20
 20 OF 38

Filename: ... \020_BTyp_01.dgn

Date: 4/29/2022



ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

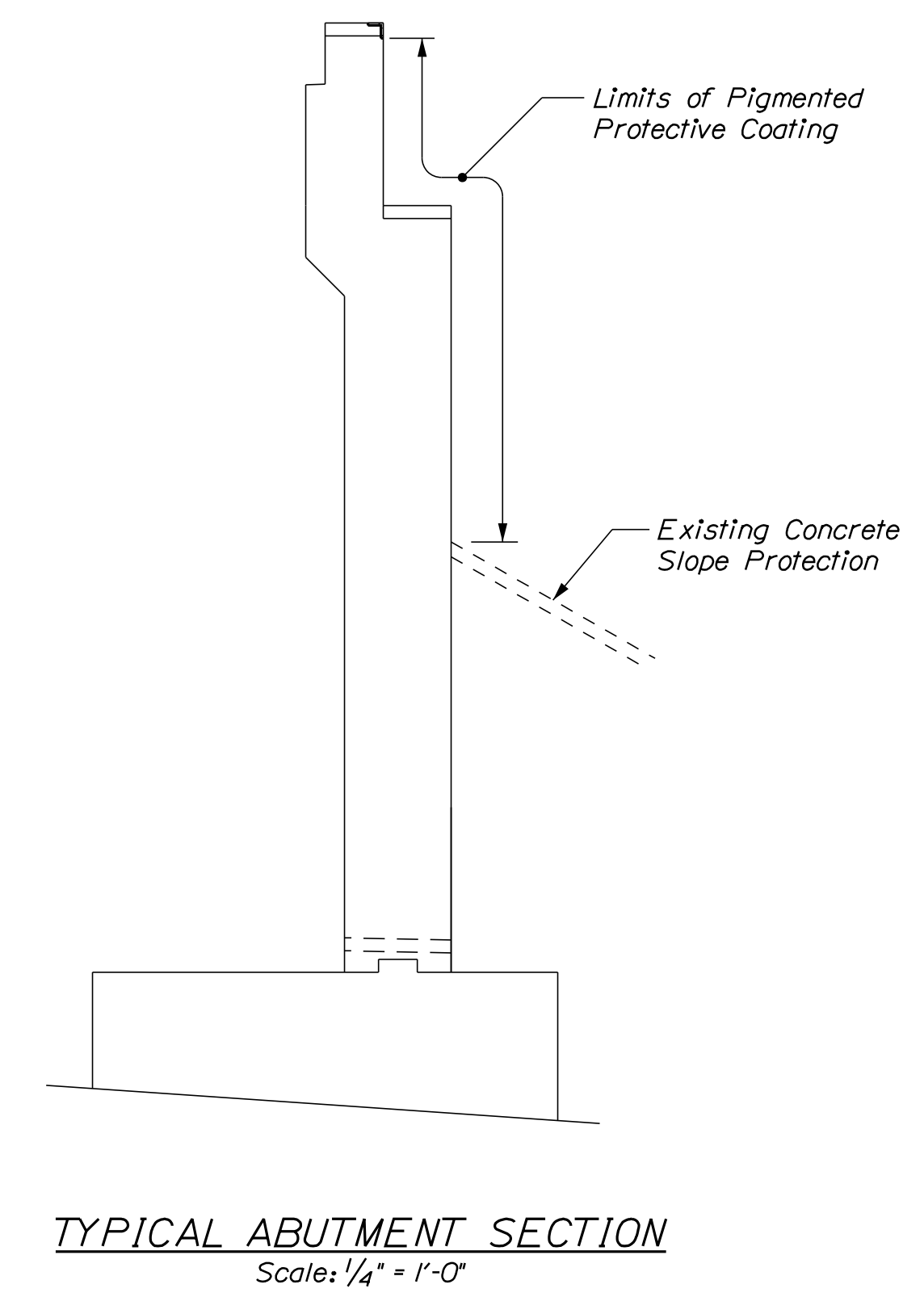
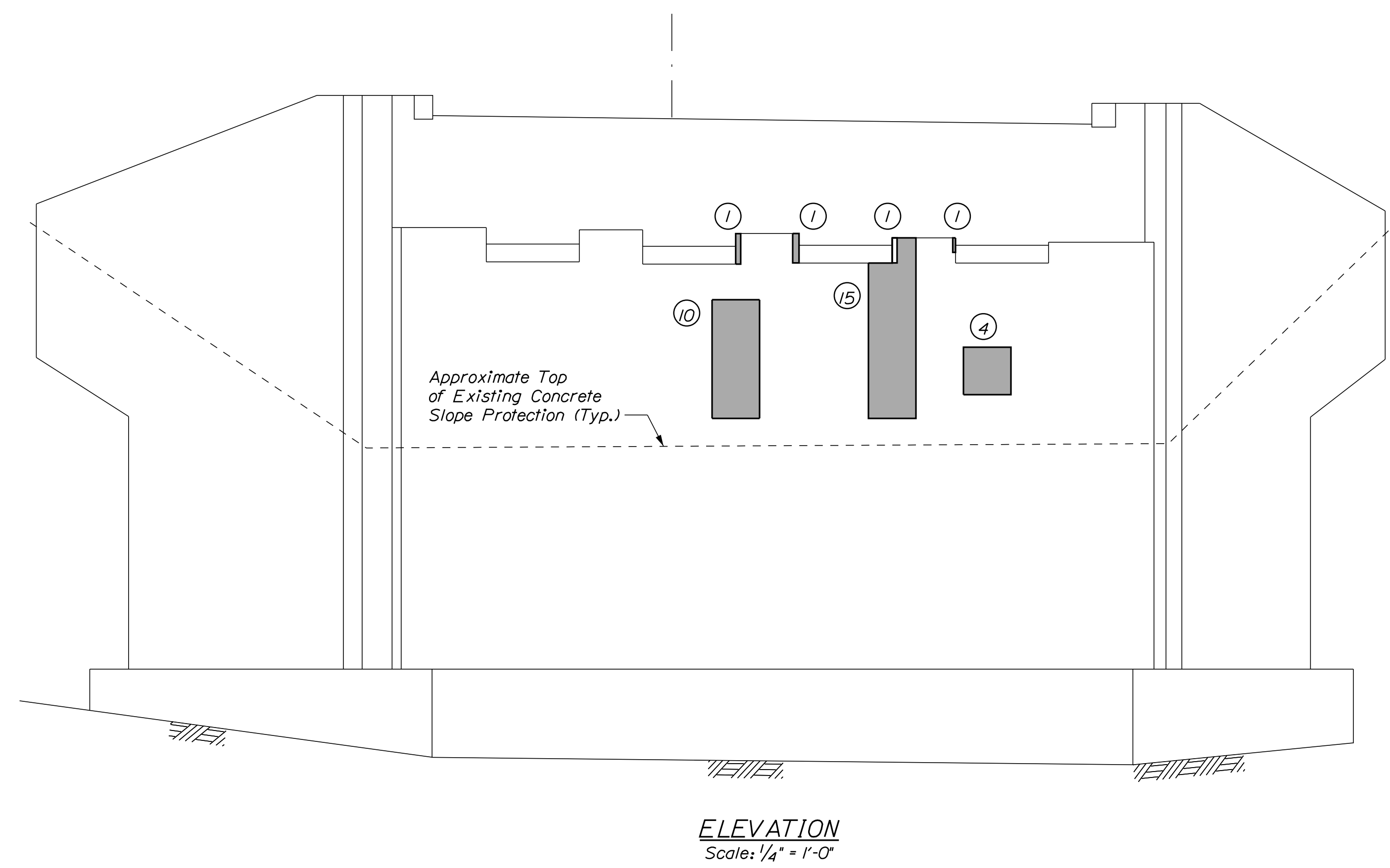
Surface Abutment Repairs 45 *
* Includes 8 S.F. Additional Repair Quantity As A Contingency

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	Checked	By	Date
Designed	MEB	4/15/22	Checked	GME	4/15/22
Drawn	DPD	4/15/22	In Charge of	TSB	4/15/22

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South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

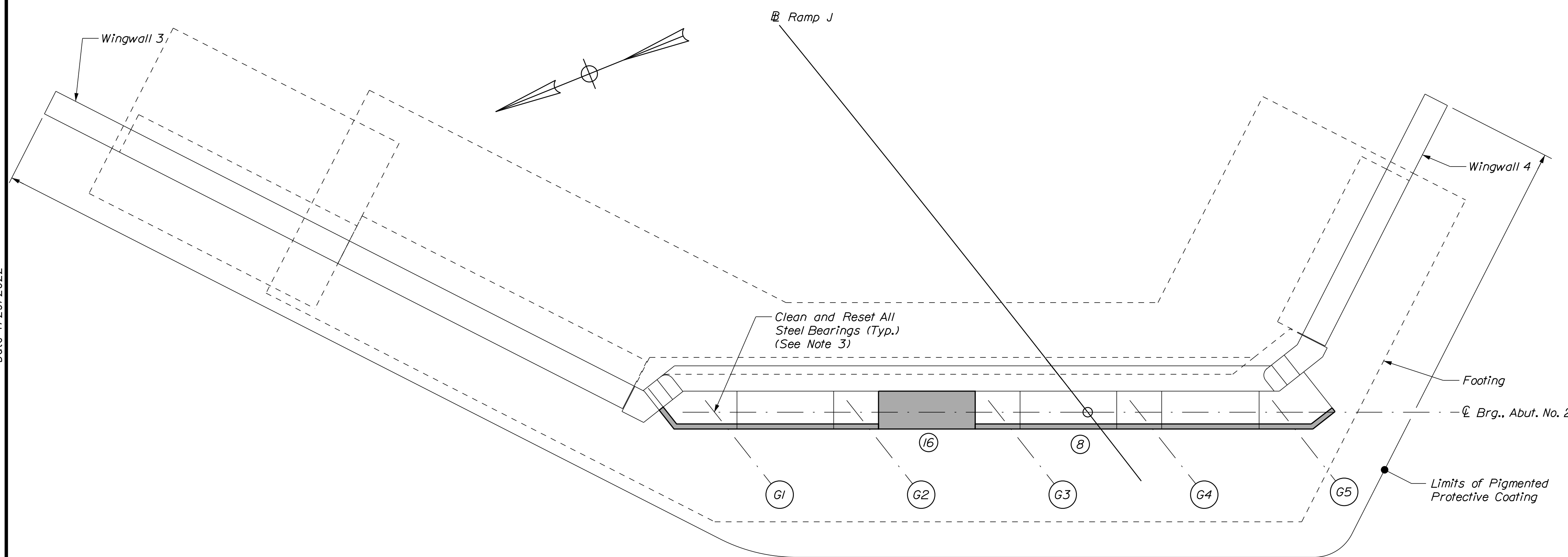
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
RAMP "J" UNDERPASS
AT MM 1.50 IN YORK, ME
ABUTMENT NO. 1 REPAIRS

VHB: 55345.00
SHEET NUMBER: 21

CONTRACT: 2022.12
21 OF 38

Date: 4/29/2022



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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

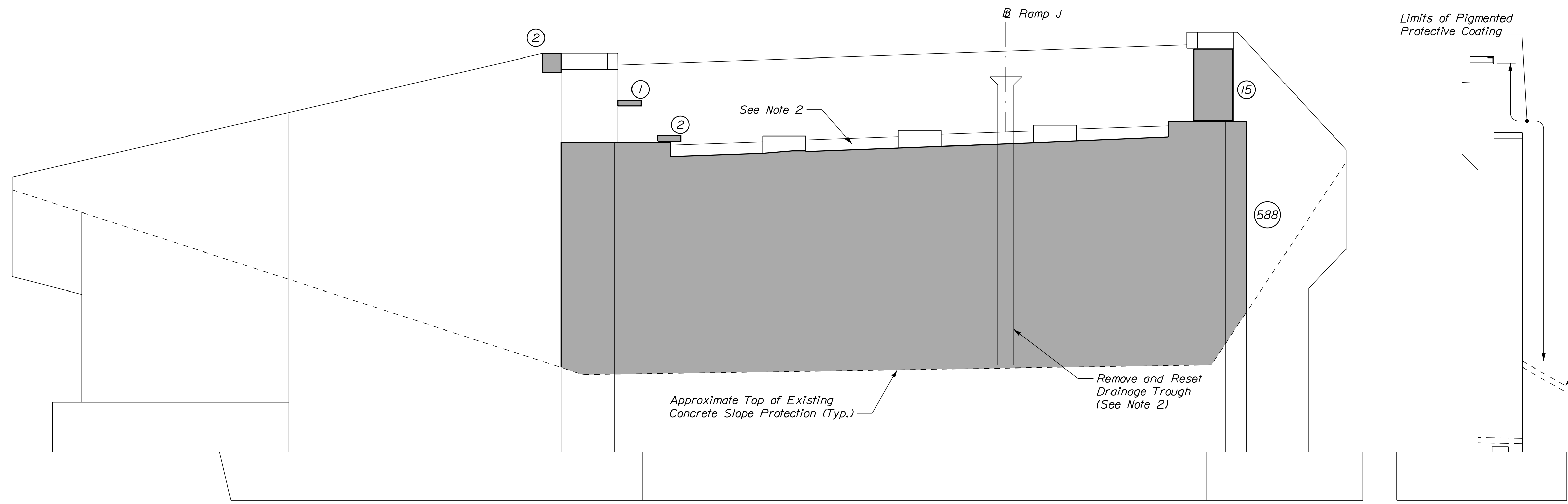
Surface Abutment Repairs	635*
--------------------------	------

*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

- NOTES:**
- All labor, equipment, and materials necessary to jack, clean, and reset the bearings shall be paid for under Item 524.7212, Jacking Existing Superstructure (Ramp J), and Item 523.1201, Reset Steel Bearings, respectively. See Miscellaneous Details sheet for information for 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 (Ramp "J").

- SHEET NOTES**
- For Concrete Repair Notes and Details See Concrete Repair Typical Details Sheet.
 - Payment for removing and resetting the drainage trough shall be incidental to the concrete repairs.



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

ABUTMENT TYPICAL SECTION
Scale: 1/4" = 1'-0"

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

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	4/15/22	Checked	GME	4/15/22
Drawn	DPD	4/15/22	In Charge of	TSB	4/15/22

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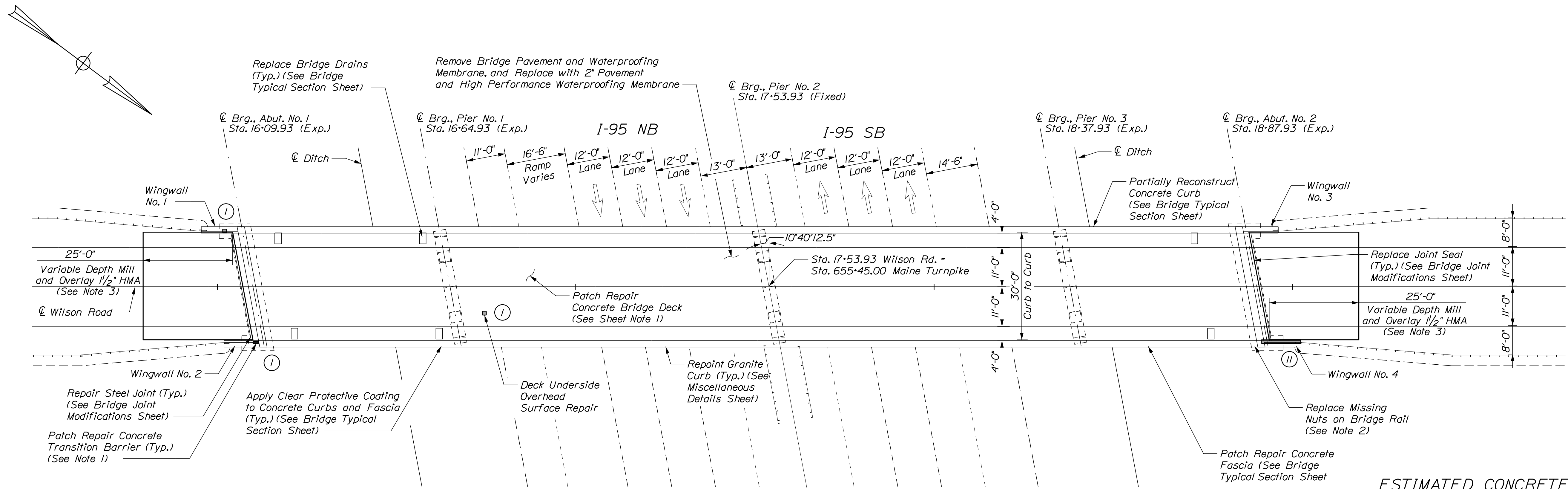
THE GOLD STAR MEMORIAL HIGHWAY

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

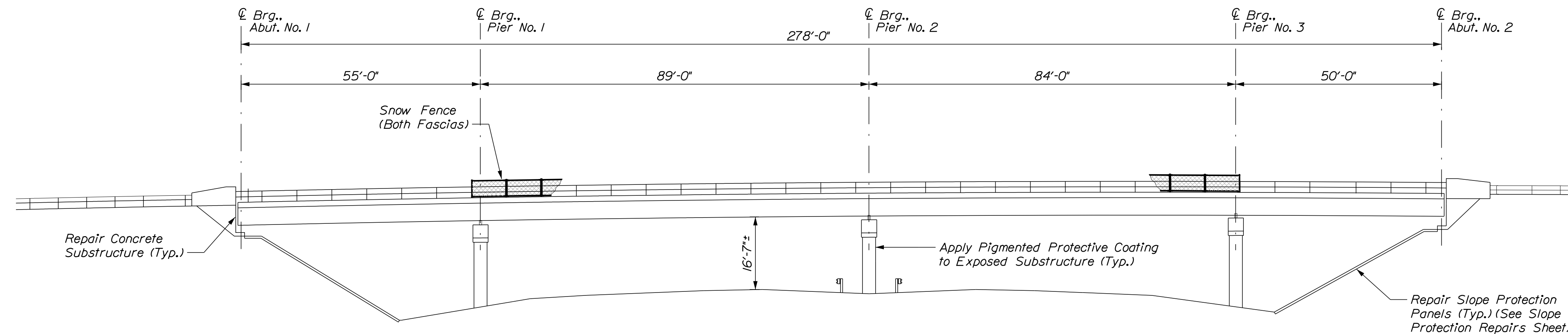
MTA PROJECT NO. 2022.12
RAMP "J" UNDERPASS
AT MM 1.50 IN YORK, ME
ABUTMENT NO. 2 REPAIRS

VHB: 55345.00
SHEET NUMBER: 22
CONTRACT: 2022.12
22 OF 38

Date: 4/29/2022



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



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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Overhead Surface Repairs	5*
* Includes 4 S.F. Additional Repair Quantity As A Contingency	
Fascia Repairs	130**
** Includes 9 S.F. Additional Repair Quantity As A Contingency	
Partial Depth Concrete Deck Repairs	335***
*** Assumes 4% of the Deck will require Partial Depth Concrete Repairs.	
Full Depth Concrete Deck Repairs	85****
**** Assumes 1% of the Deck will require Full Depth Concrete Repairs.	
Transition Barrier Repairs	15*****
***** 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.

NOTES

- Transition barrier concrete repairs shall be paid for under Item 518.10 Abutment Repairs.
- Replace missing nuts on bridge rail as directed by the Resident. This work shall be incidental to the related Contract Items.
- Mill variable depth and pave 1/2" HMA. Depth of Mill shall be based on string-line measurements to achieve a smooth transition between existing and approach pavement.

KEY

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

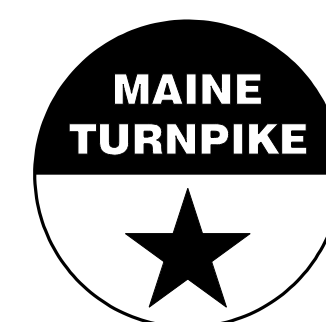
Filename: ...023_plan_03.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
GENERAL PLAN AND ELEVATION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 23
23 OF 38

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

ESTIMATED CONCRETE REPAIR QUANTITIES (LF)

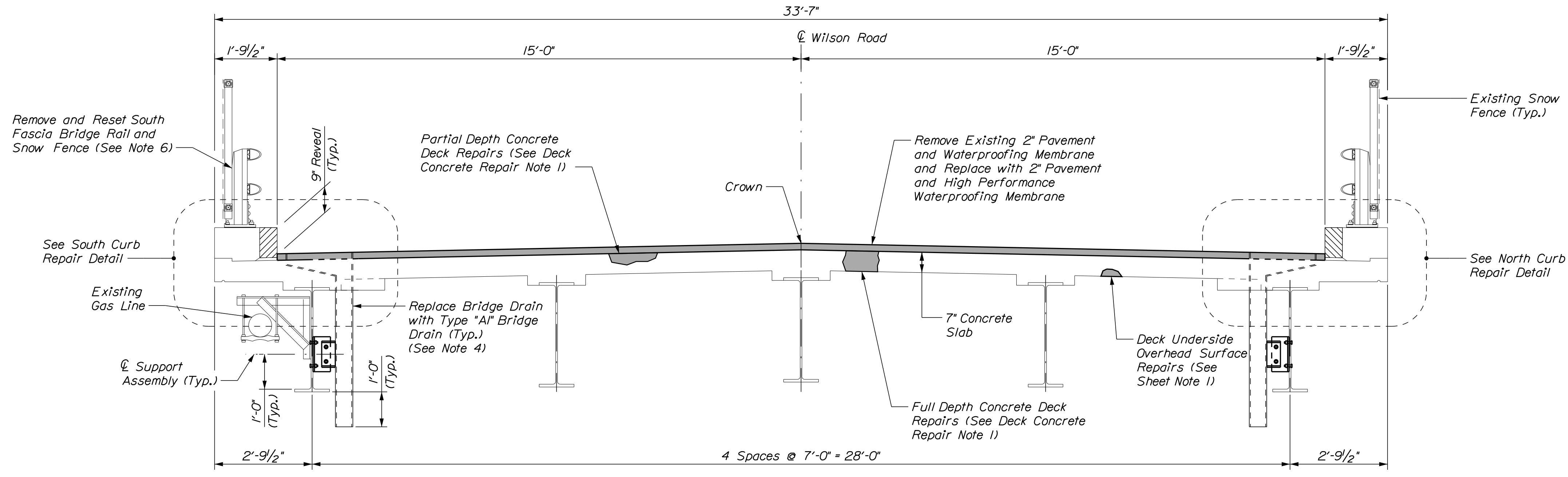
Epoxy Injection Crack Repair 85*
 *Includes 2 L.F. Additional Repair Quantity As A Contingency

DECK CONCRETE REPAIR NOTES

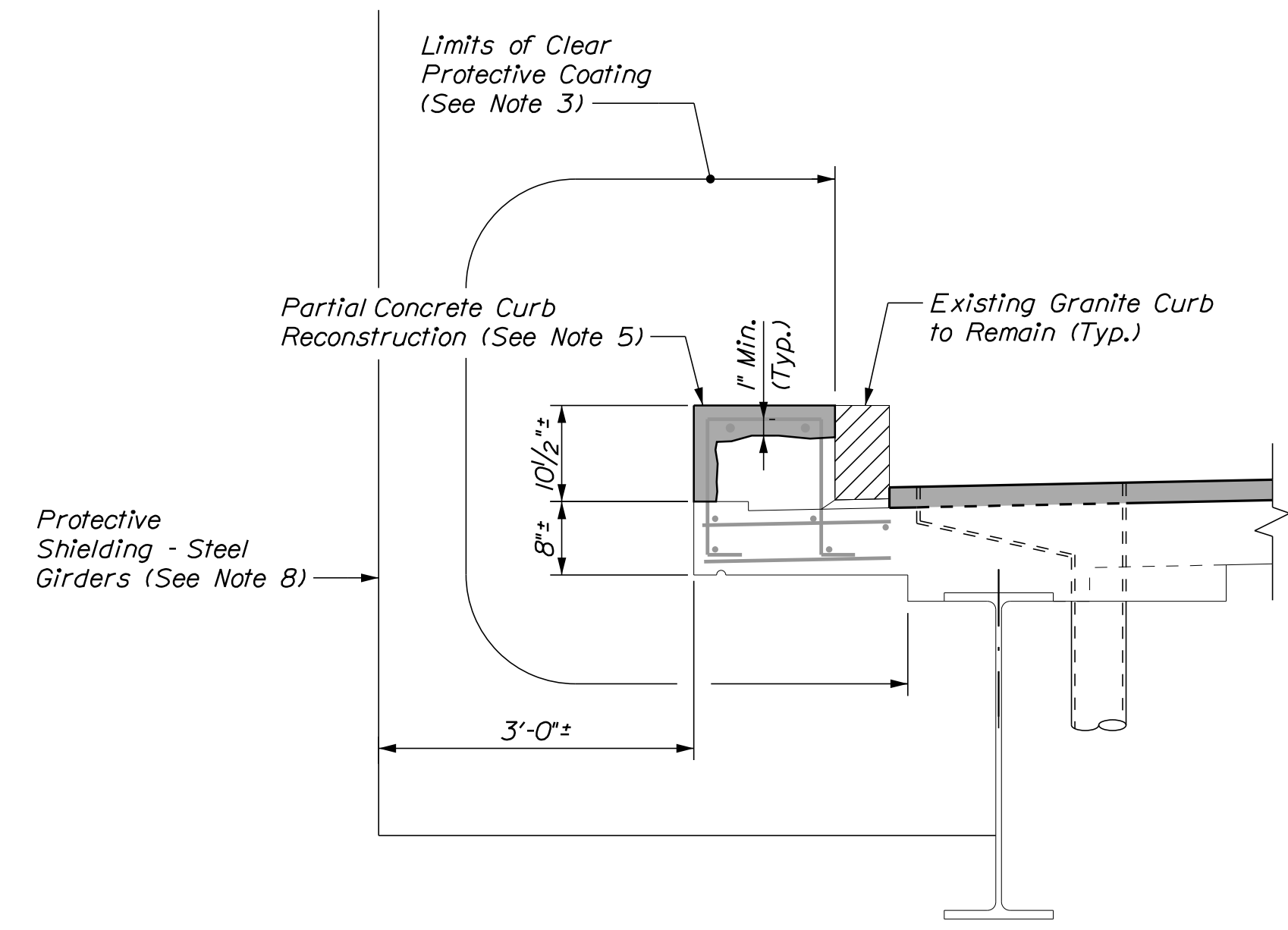
- Prior to the start of the deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.80 Partial Depth Concrete Deck Repair and Item 518.81 Full Depth Concrete Deck Repairs.
- Sawcut 1" deep along all limits of removal.
- Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specifications 518.
- Selectively patch repair the north bridge fascia as directed by the Resident. Patch repair of the north fascia shall be paid for under Item 518.75 Fascia and Overhang Repairs.
- Reconstruct the south concrete bridge curb as shown in the South Curb Repair Detail. All labor, equipment, and materials necessary to partially reconstruct the south concrete bridge curb, including removing and resetting the existing bridge rail and snow fence, shall be paid for under Item 518.76, Partial Concrete Curb Reconstruction. See Special Provision Section 518 for additional requirements.
- Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
- Replacing the bridge drains shall be paid under Item 502.702, Replace Bridge Drain (Type A1).
- The Contractor shall install Protective Shielding - Steel Girders prior to the start of the repairs at the north and south curbs. All access for the curb repairs shall be from the Protective Shielding - Steel Girders.

SHEET NOTES

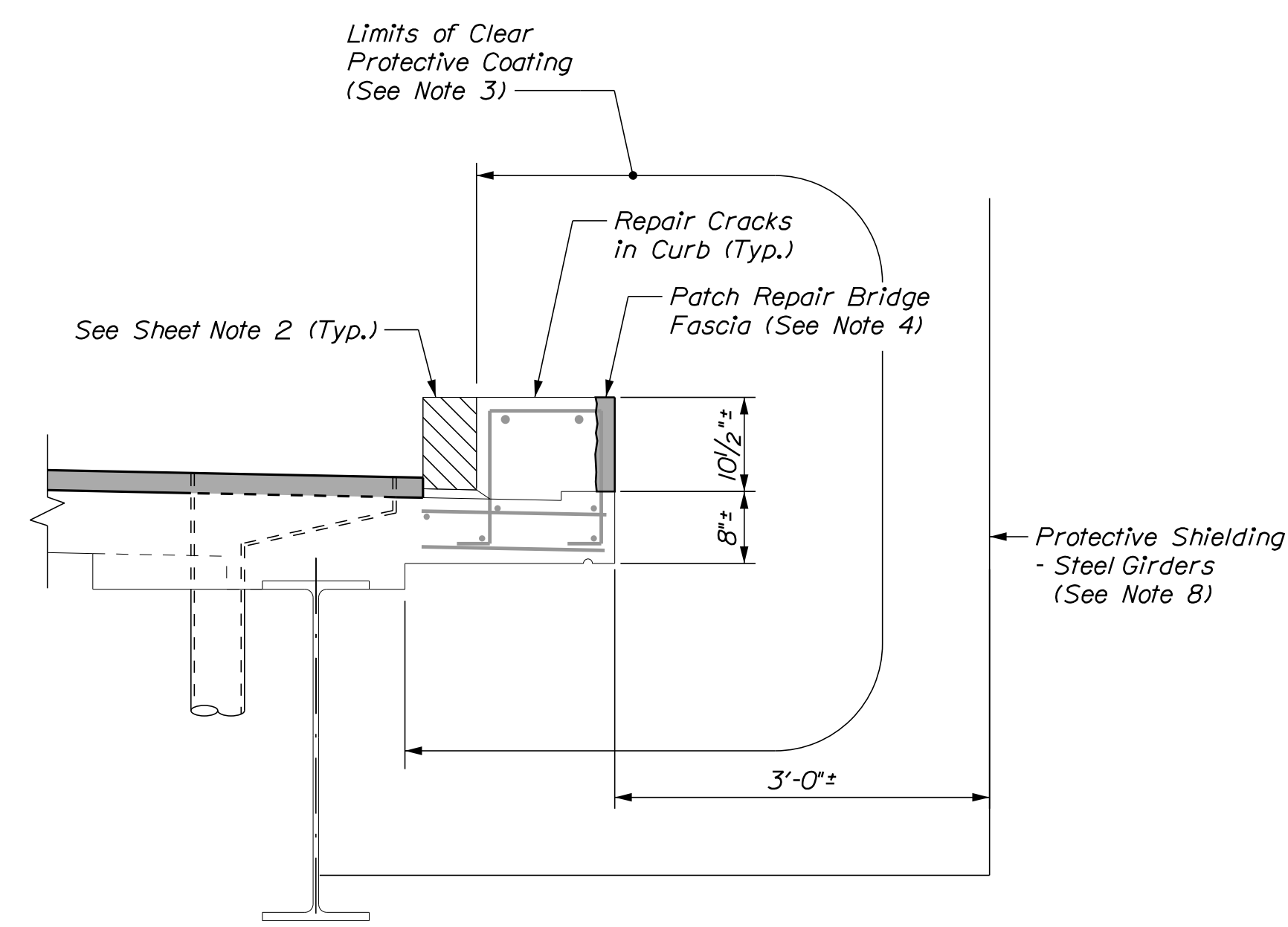
- For Concrete repair Notes and Details see Concrete Repair Typical Details Sheet.
- For Existing Granite Curb Detail see Miscellaneous Details Sheet.



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



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



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

Date: 5/2/2022

Filename: ...024_BTyp_3.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:						
CONSULTANT PROJECT MANAGER: G. Edington						
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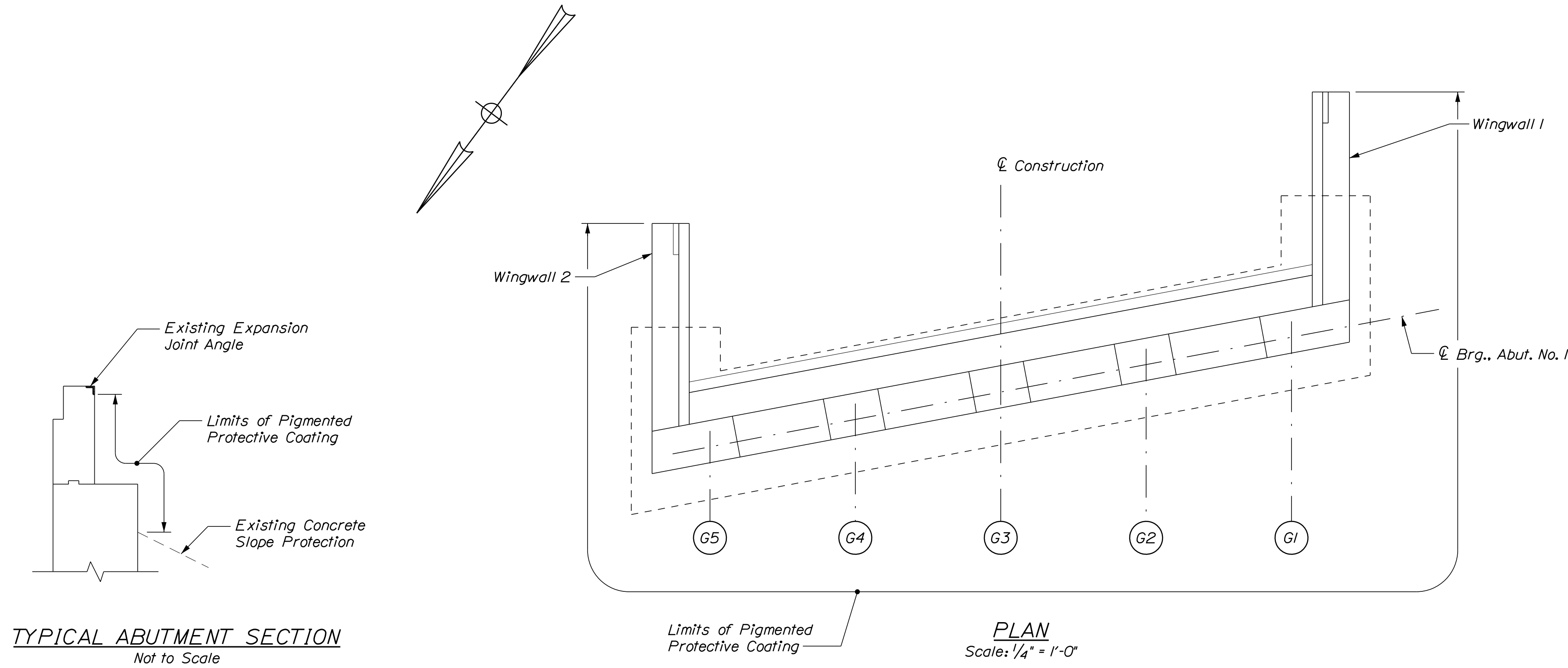
THE GOLD STAR MEMORIAL HIGHWAY

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

MTA PROJECT NO. 2022.12
 WILSON ROAD UNDERPASS
 AT MM 2.0 IN YORK, ME
 BRIDGE TYPICAL SECTION

VHB: 55345.00 SHEET NUMBER: **24**
 CONTRACT: 2022.12 **24 OF 38**

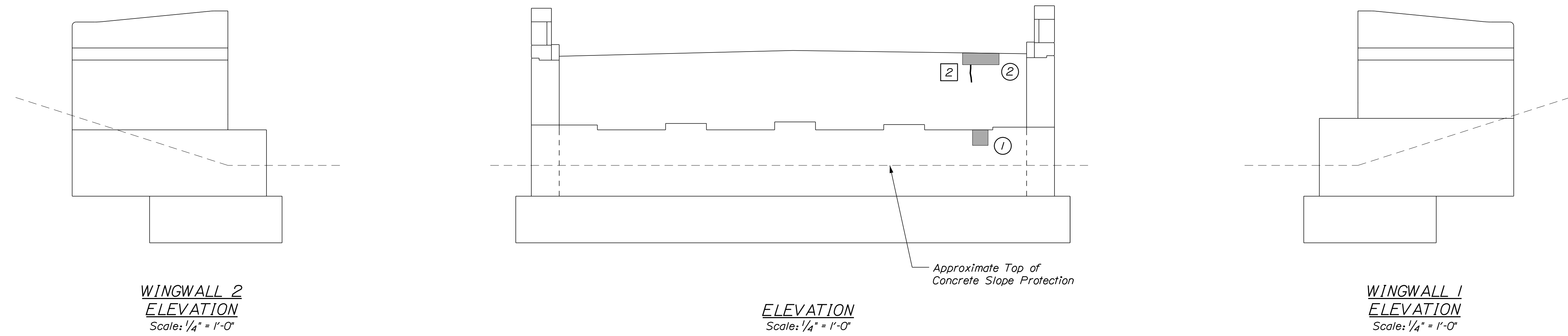
Date: 4/29/2022



ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)

Surface Abutment Repairs	5 *
* Includes 2 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	5 **
** Includes 3 L.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 and Crack Repair Notes and Details see Concrete Repair Typical Details Sheet.

Filename: ... \025_Abutment_01.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
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Designed	MEB	4/29/22	Checked	GME	4/29/22
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THE GOLD STAR MEMORIAL HIGHWAY

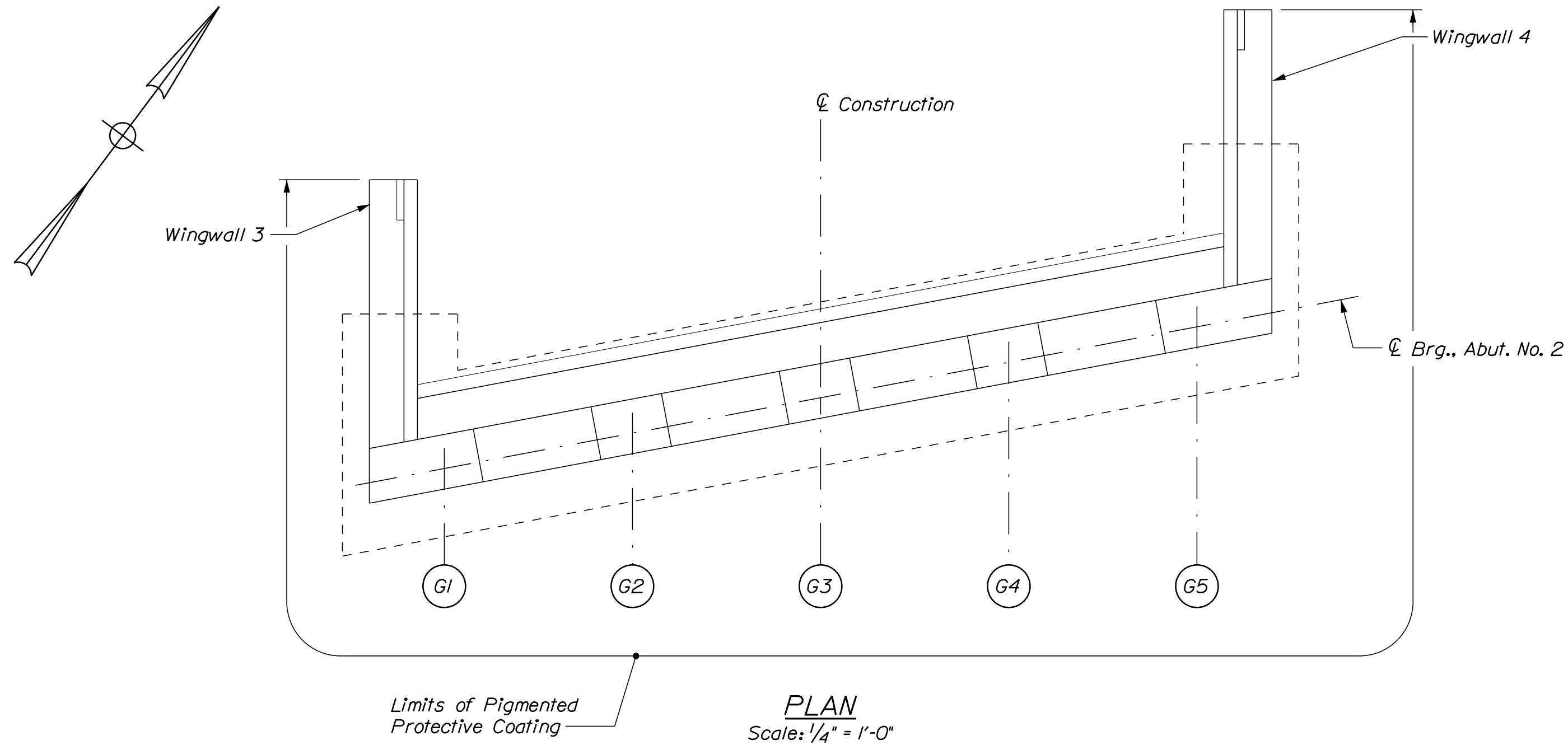
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
 WILSON ROAD UNDERPASS
 AT MM 2.0 IN YORK, ME
 ABUTMENT NO. 1 REPAIRS

VHB: 55345.00
 CONTRACT: 2022.12

SHEET NUMBER: **25**
25 OF 38

Date: 4/29/2022

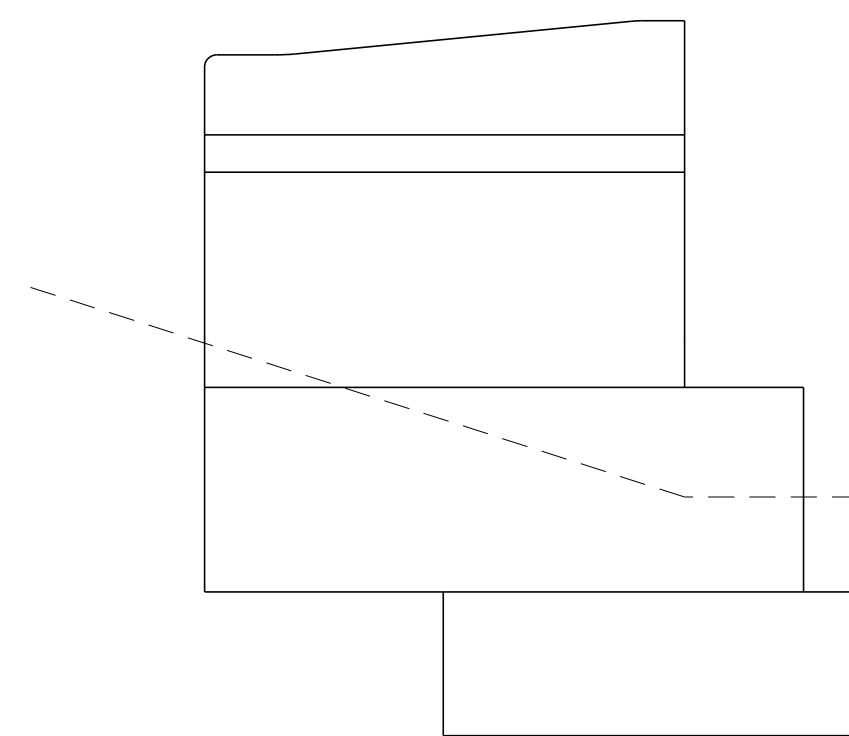


ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

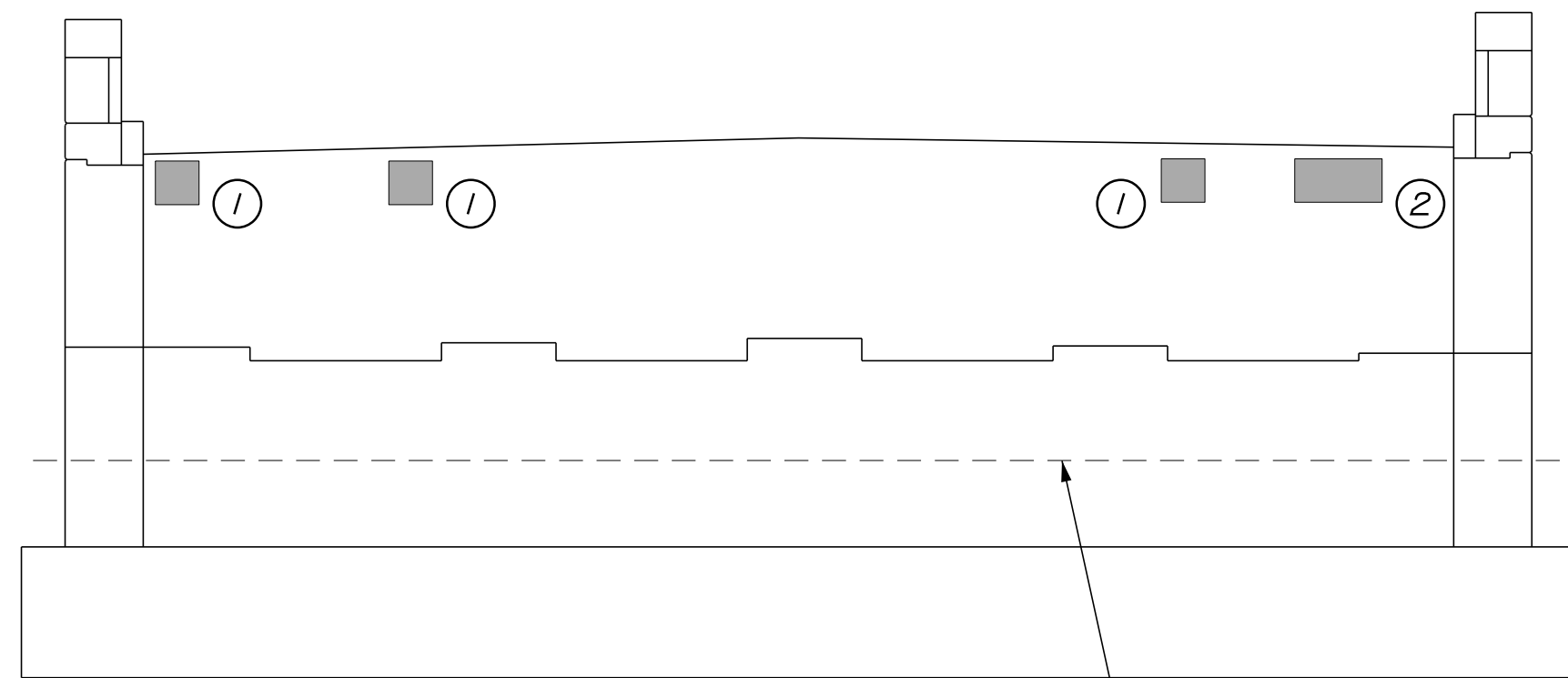
Surface Abutment Repairs 10*
* Includes 5 S.F. Additional Repair Quantity As A Contingency

KEY

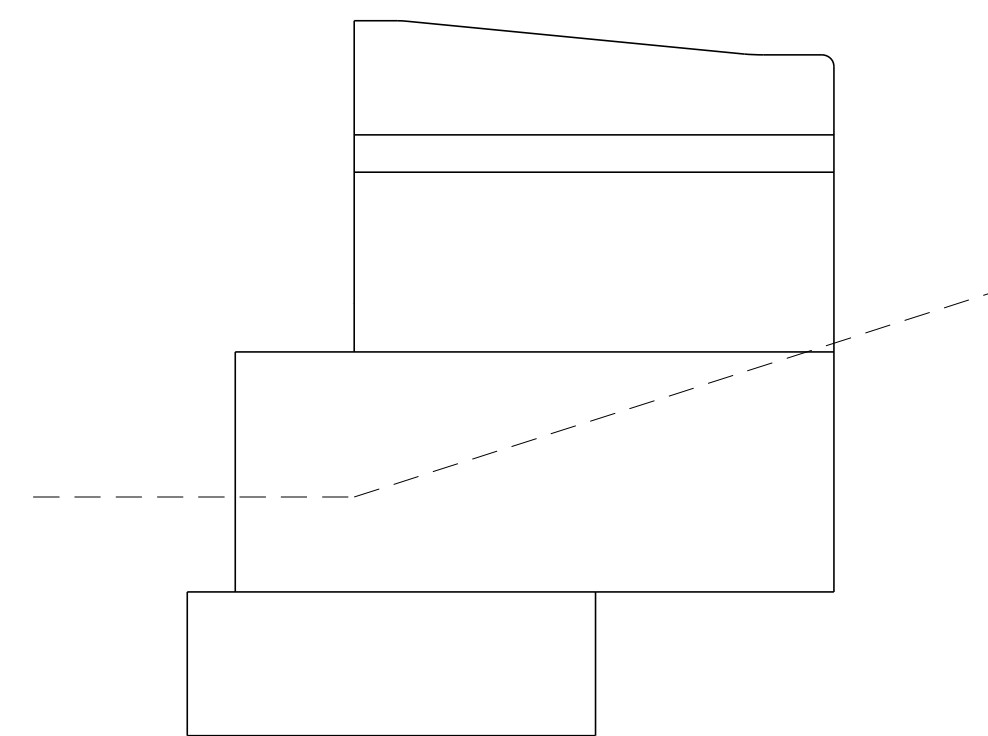
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



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



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



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

SHEET NOTES

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

Filename: ...026_Abutment_02.dgn



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: G. Edington					
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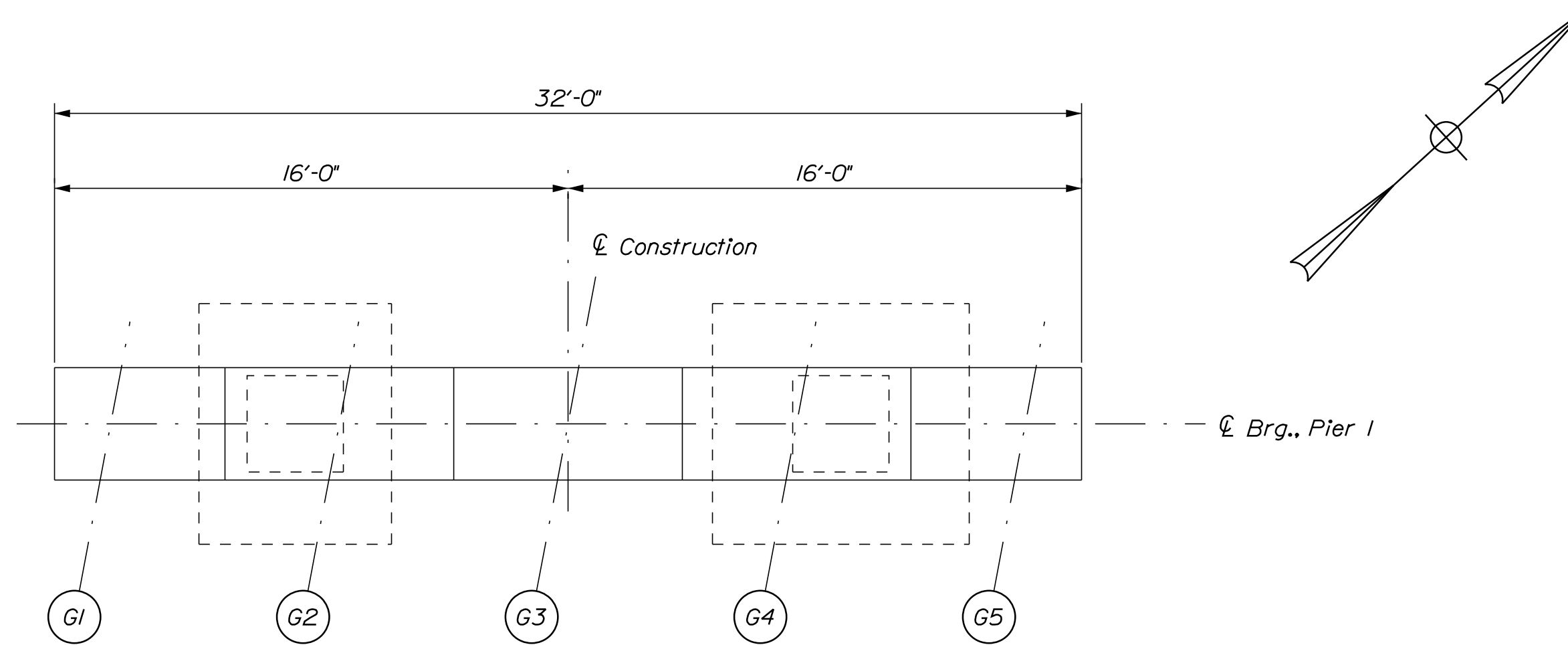
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
ABUTMENT NO. 2 REPAIRS

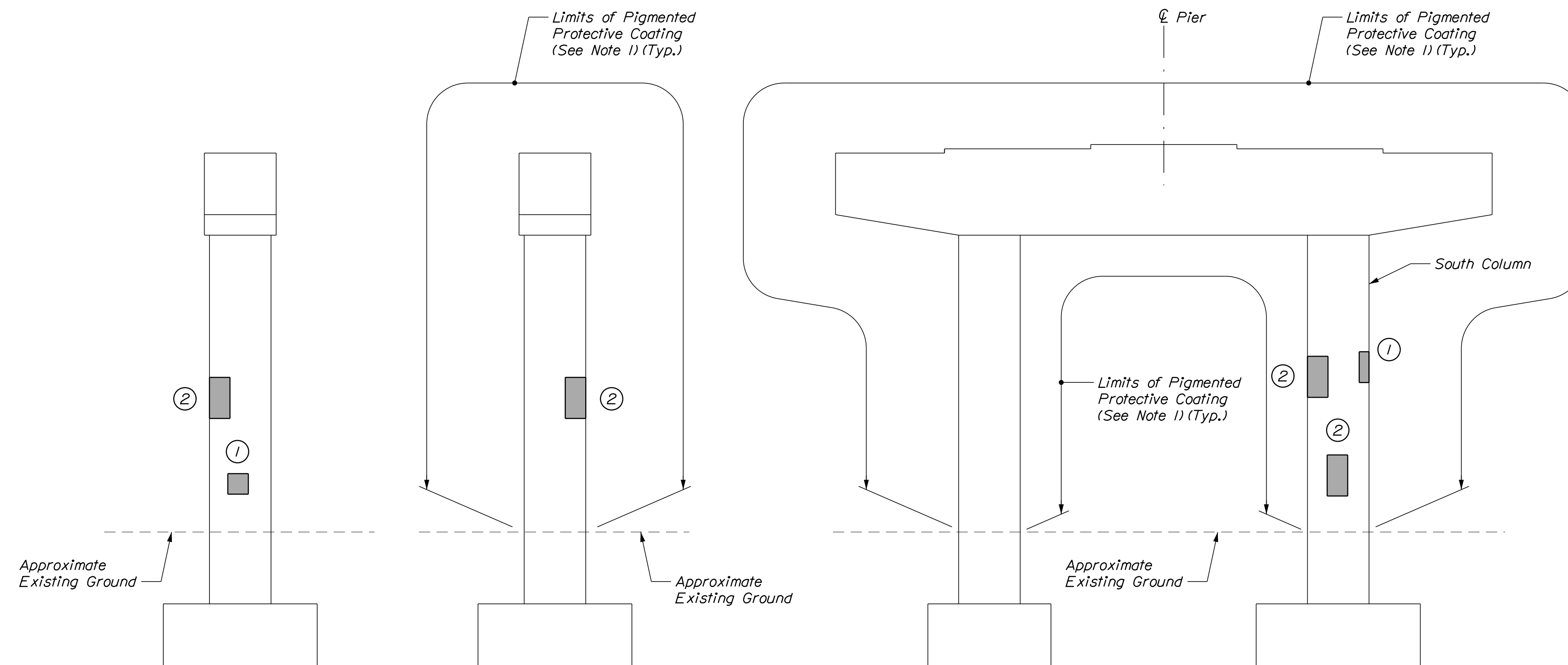
VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 26
26 OF 38

Date: 4/29/2022



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



PIER 1 (SOUTH COLUMN) SOUTH ELEVATION
Scale: 1/4" = 1'-0"

PIER 1 (SOUTH COLUMN) NORTH ELEVATION
Scale: 1/4" = 1'-0"

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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Surface Pier Repairs 15*
* Includes 5 S.F. Additional Repair Quantity As A Contingency

SHEET NOTE

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

NOTE

1. Limits of Pigmented Protective Coating applied to Pier 3 is similar to Pier 1.

KEY

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

Scale:

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
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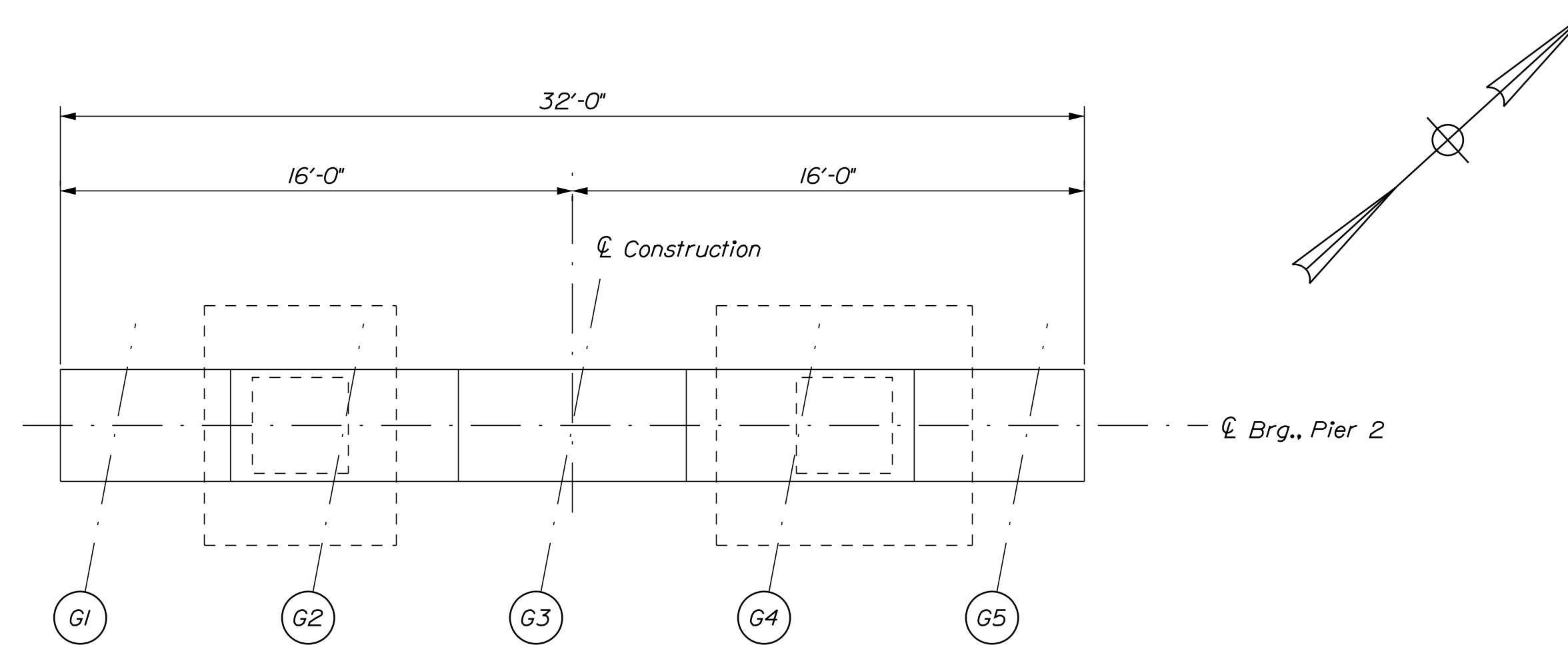
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MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

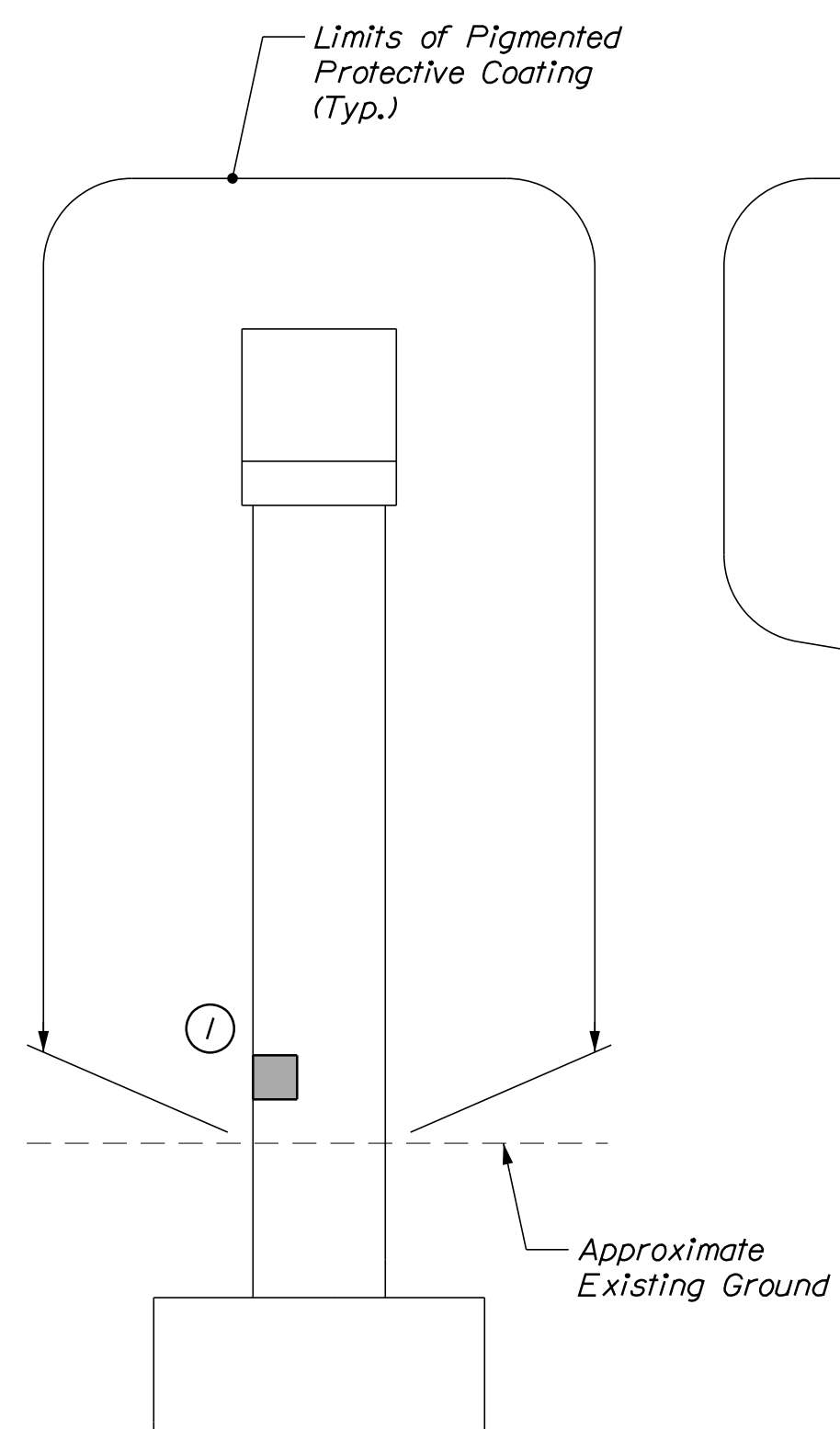
MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
PIER NO. 1 REPAIRS

VHB: 55345.00 SHEET NUMBER: 27
CONTRACT: 2022.12 27 OF 38

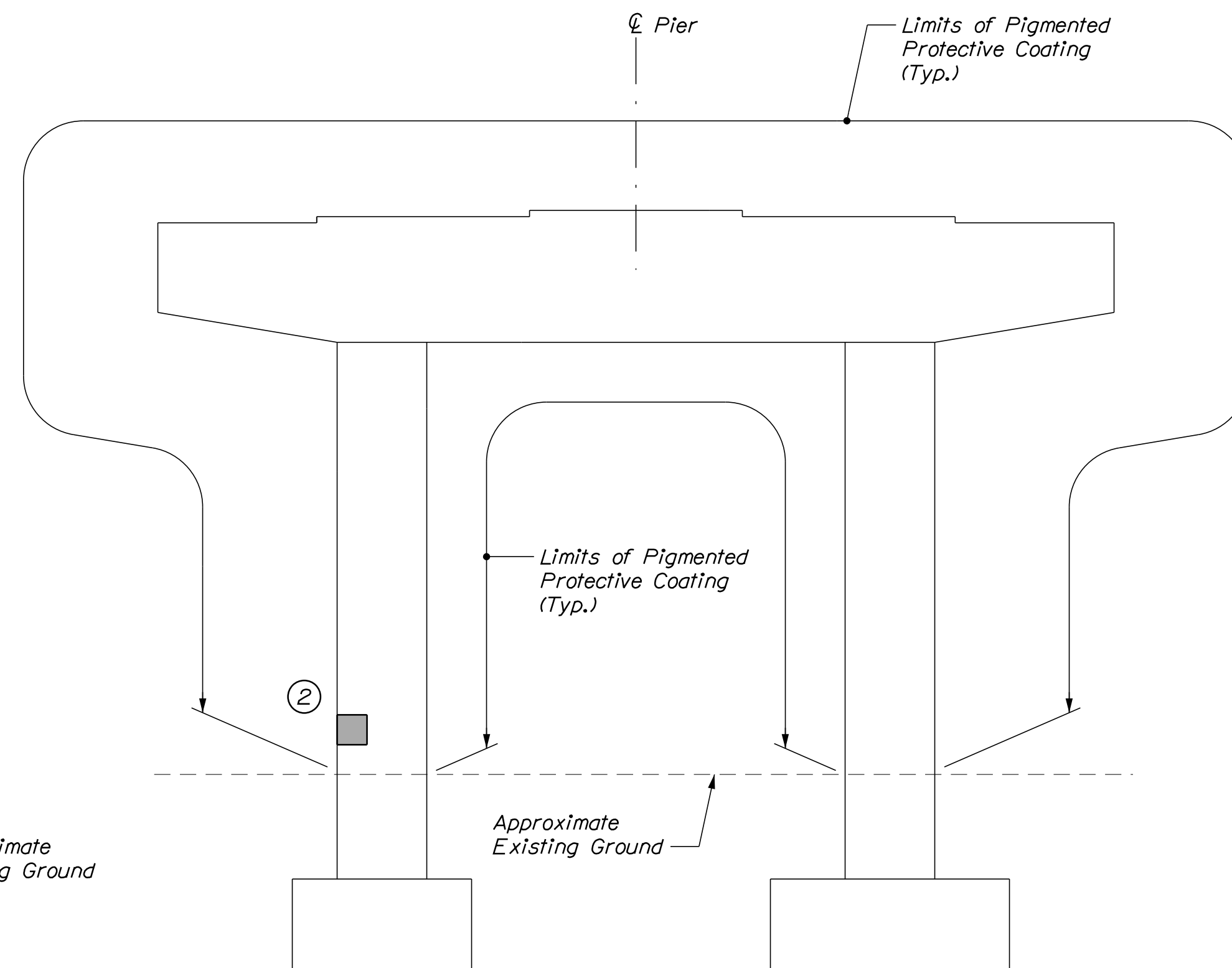
Date: 4/29/2022



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



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



PIER 2 WEST ELEVATION
Scale: 1/4" = 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

Scale:			
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
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**THE GOLD STAR
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MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
PIER NO. 2 REPAIRS

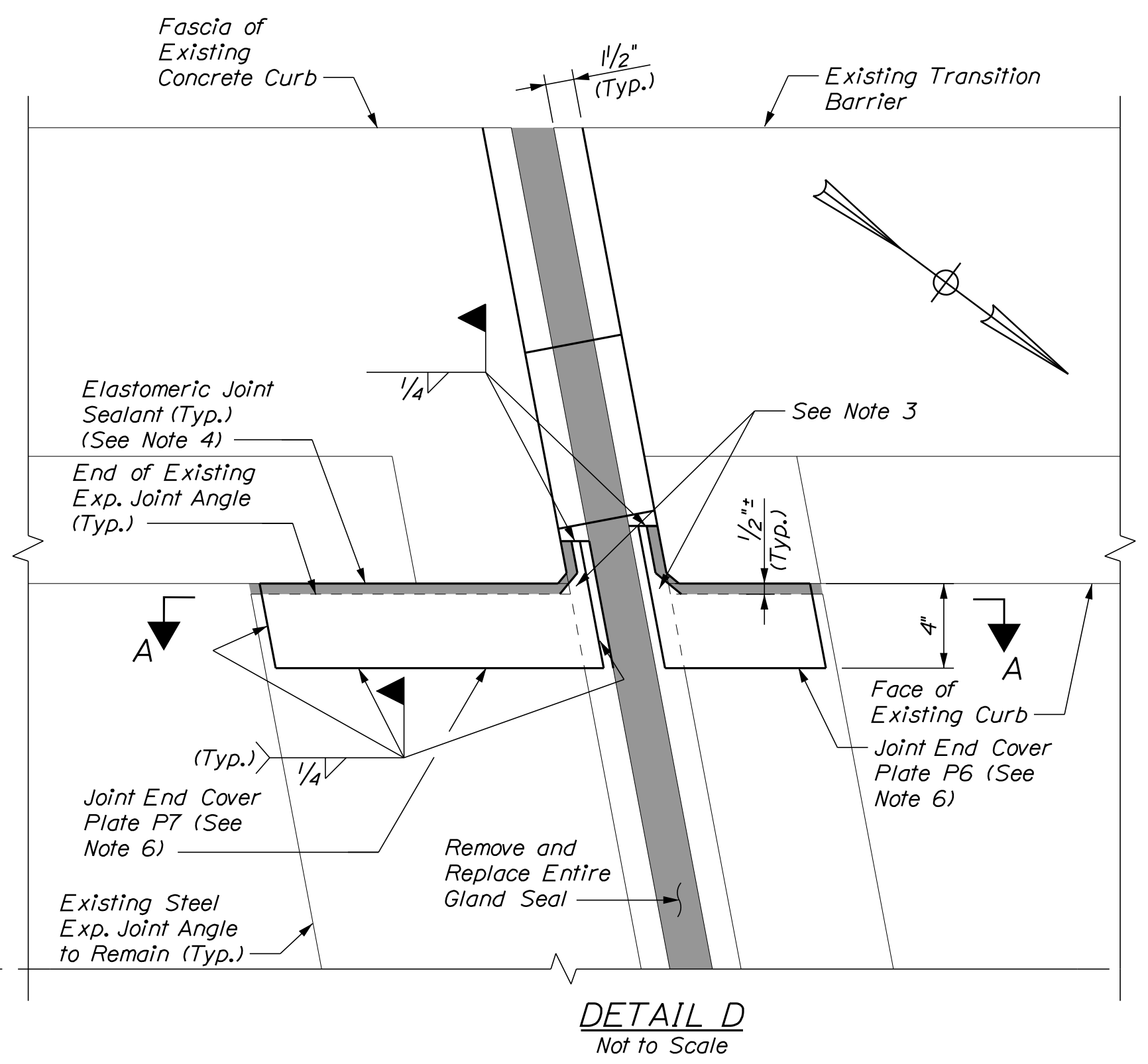
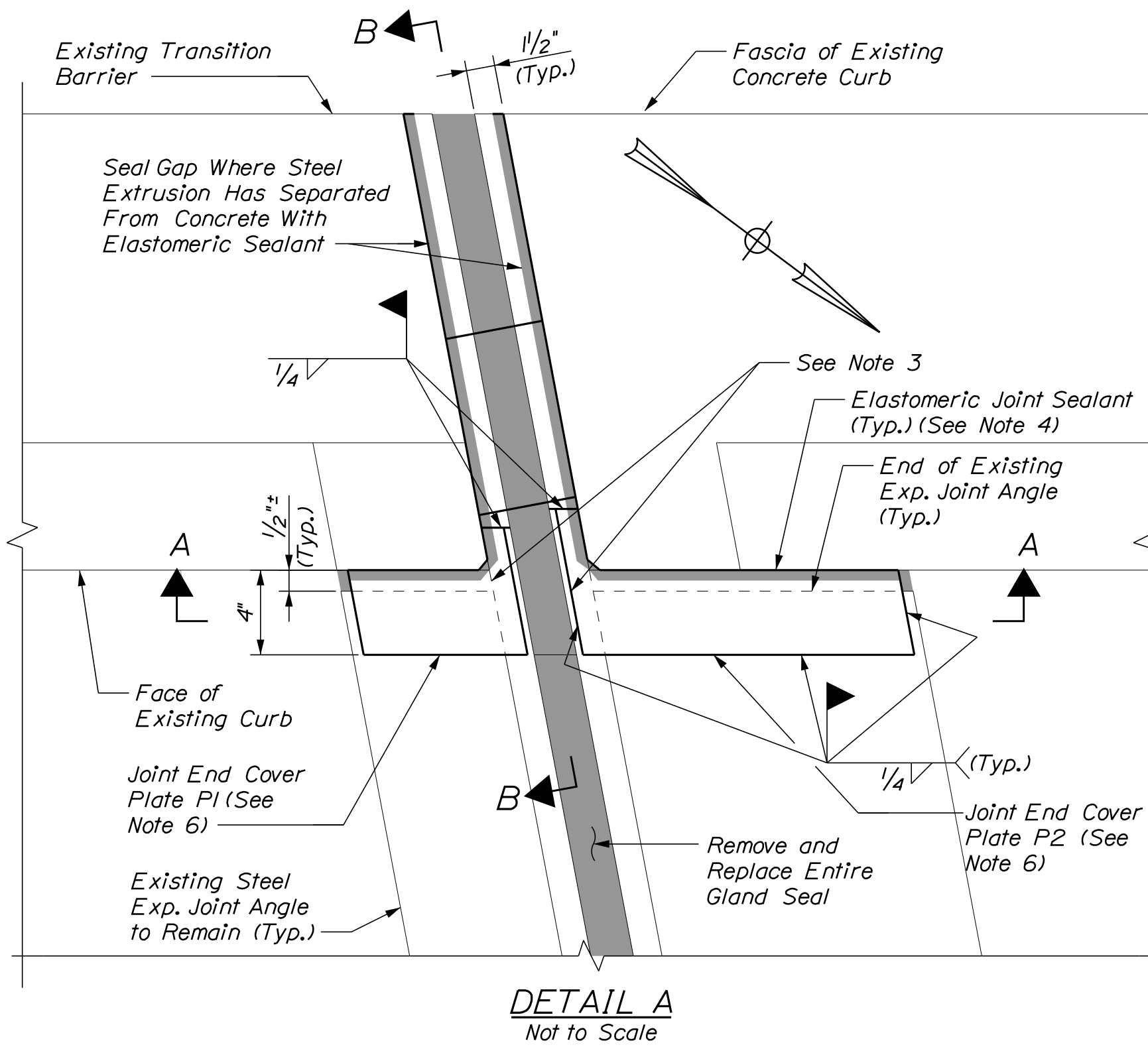
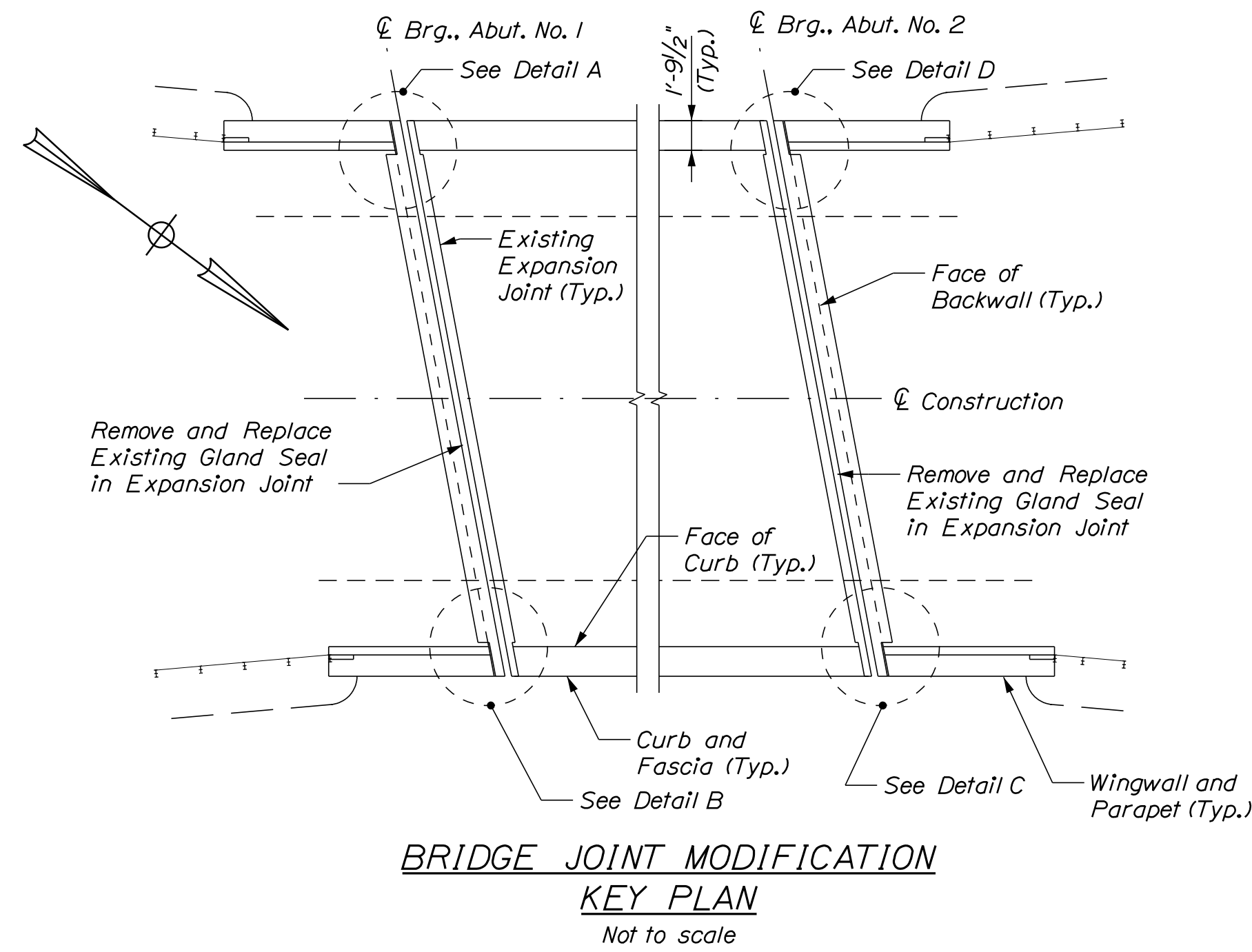
VHB: 55345.00
SHEET NUMBER: **28**

CONTRACT: 2022.12 **28 OF 38**

Filename: ... \028_Pier2.dgn

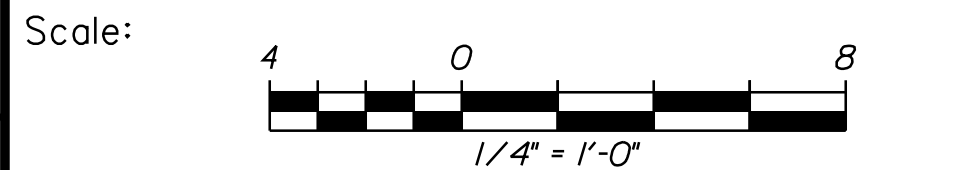
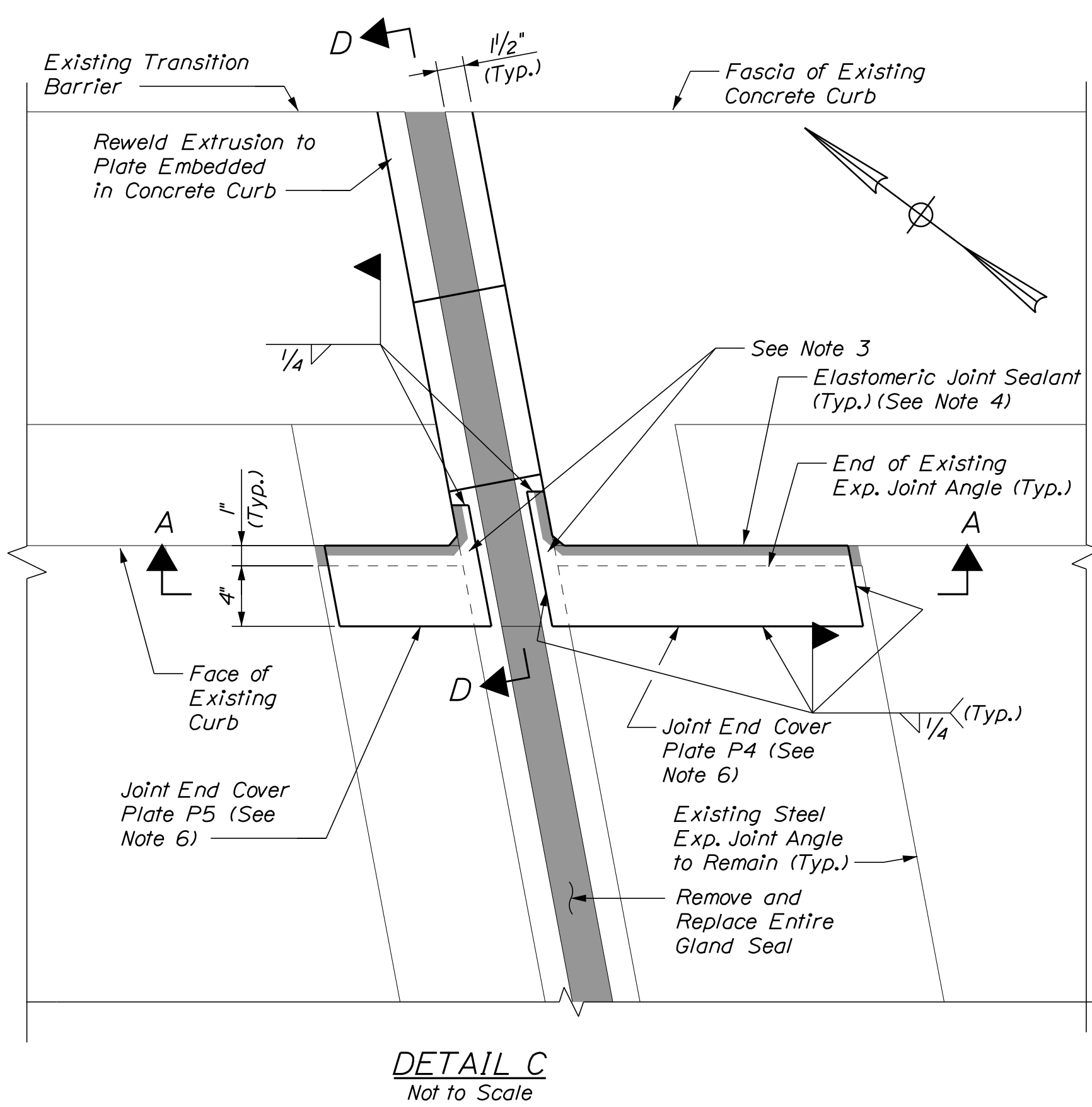
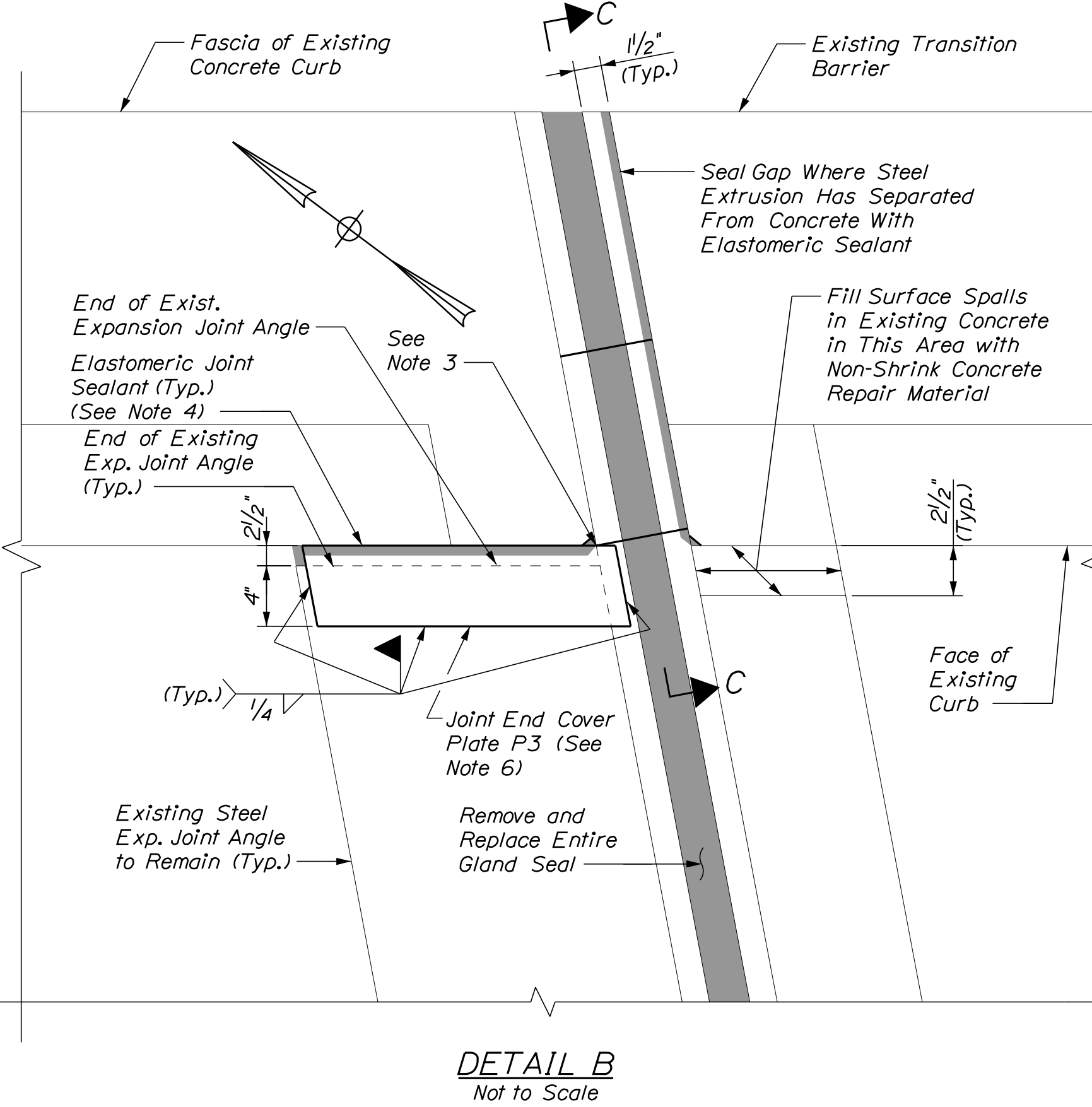
Date: 4/29/2022

Filename: ...029_Brg-Joint-Repair_1.dgn




BRIDGE JOINT MODIFICATION NOTES:

1. Replace the entire existing gland seal in the deck end expansion joints at both abutments. The existing gland seal is called out as a S-300 Watson Bowman Acme on the 1988 rehabilitation plans. Field investigation indicates that is the type of gland seal currently installed.
2. Install steel joint end cover plates as shown in the details on this sheet to seal holes at face of curb that are currently allowing roadway drainage onto fascia girder and bridge seat. Grind top of existing expansion joint angle and extrusion as required to provide a smooth surface for the cover plates to bear on. Dimensions of joint end cover plates shown in these plans are based on limited field measurements. The Contractor shall take sufficient field measurements to confirm the proposed dimensions of the plates. If adjustments to plate dimensions are required for proper fit up based on Contractor's field measurements, the Contractor shall submit plans annotated with the revised dimensions to the Resident prior to fabrication.
3. Prior to installation of joint end cover plates, place non-shrink concrete repair material to fill any voids in backwall or concrete deck end below or adjacent to the cover plates. Use foam backer rod or forms as necessary to contain the repair material.
4. After the joint end cover plates are installed, place elastomeric joint sealant along interface with face of curb and any other unwelded edges of the plates or adjacent openings to prevent water intrusion through joint.
5. At the locations shown in these plans where the steel extrusion in the curb has separated from the concrete, reweld the extrusion to the embedded steel plate or where there is insufficient remaining embedded steel plate due to corrosion seal the gap with elastomeric sealant.
6. See Bridge Joint Modifications Sheet 2 of 2 for sections and joint end cover plate details.
7. All labor, equipment, and material to complete the installation of the joint end cover plates shall be paid for under Item 530.2407, Bridge Joint Steel Modification.



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	By	Date	
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Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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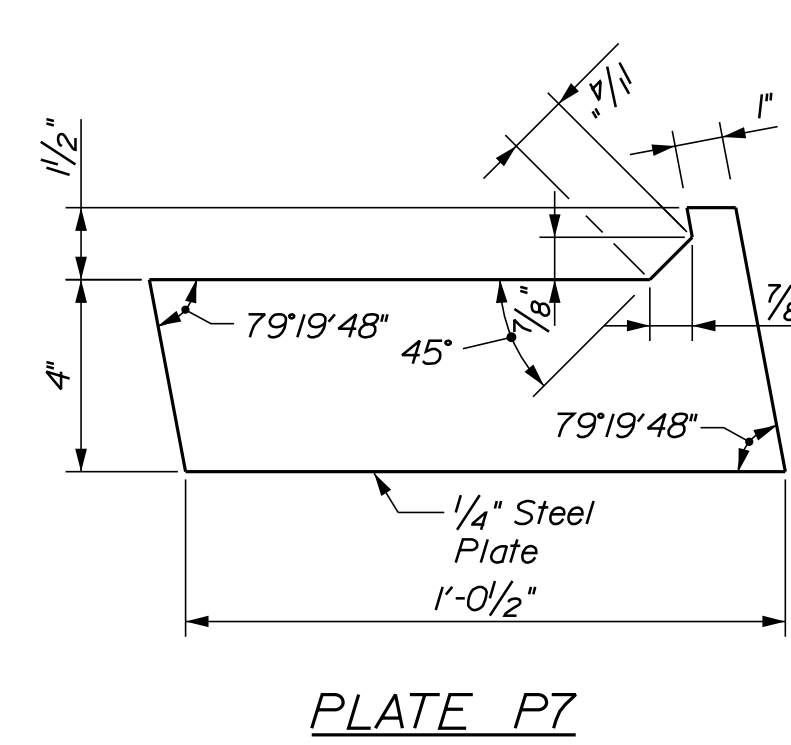
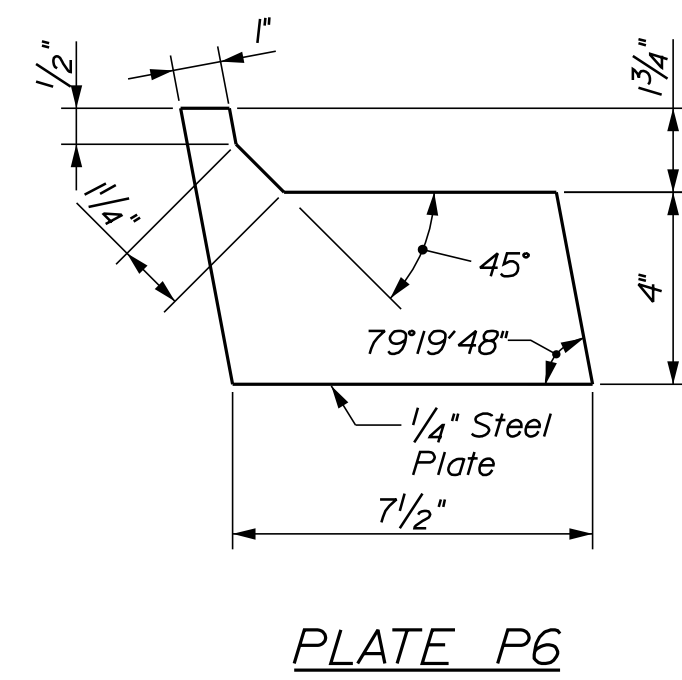
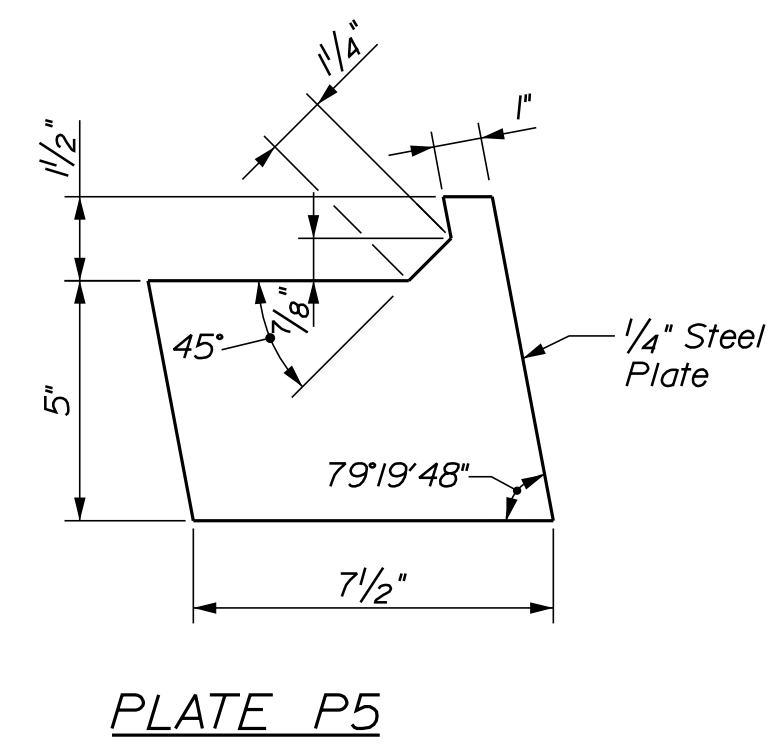
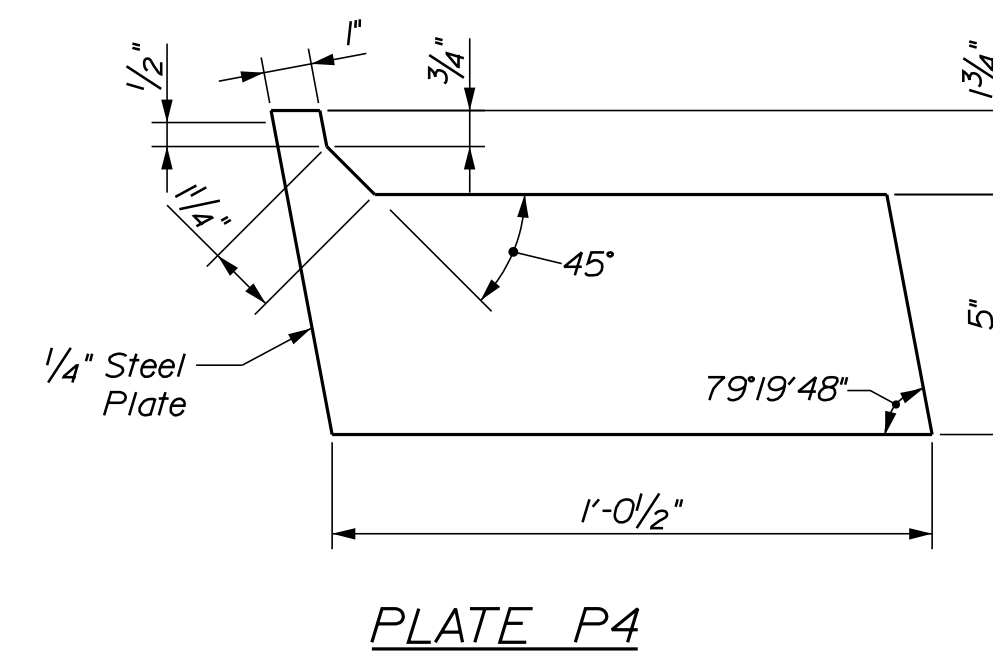
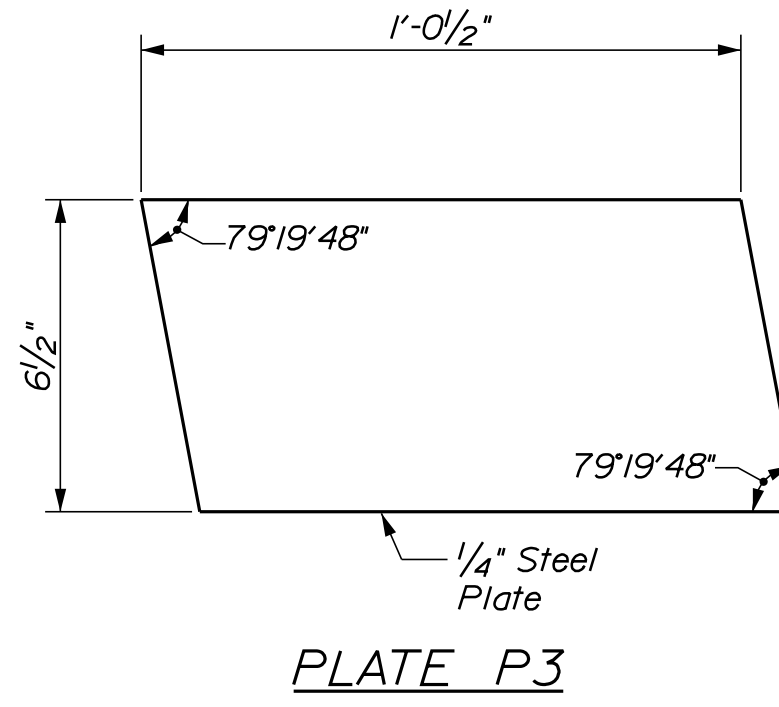
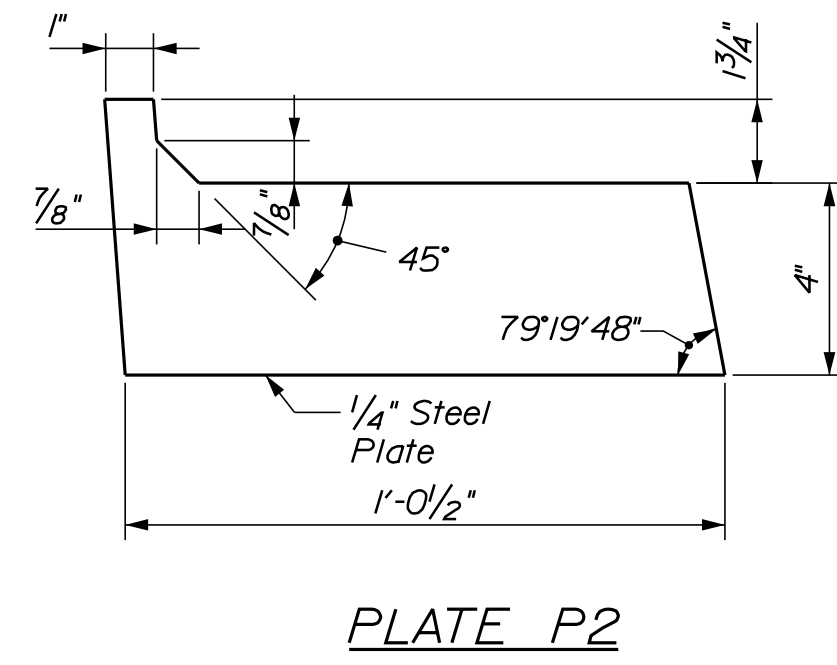
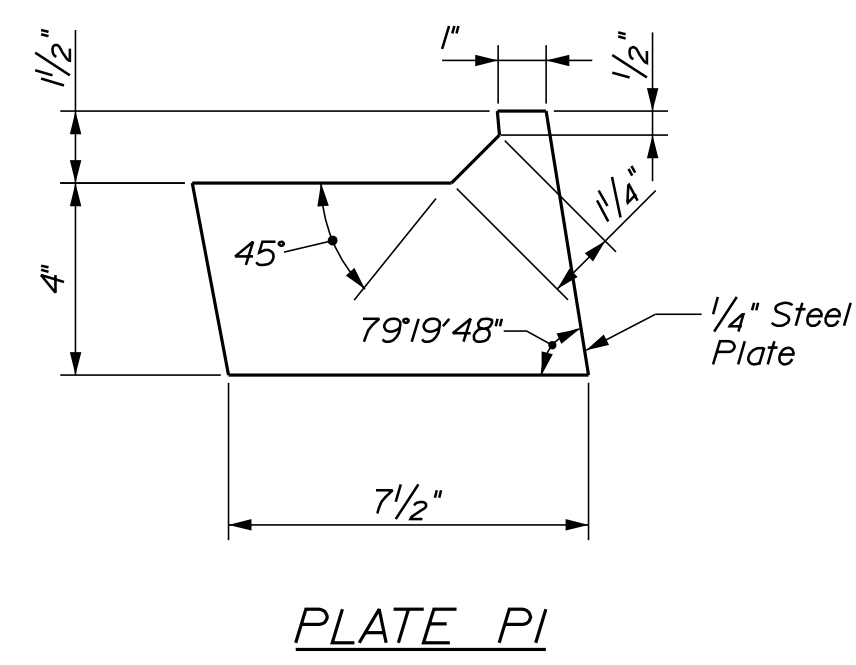
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
 WILSON ROAD UNDERPASS
 AT MM 2.0 IN YORK, ME
 BRIDGE JOINT MODIFICATIONS (1 OF 2)

VHB: 55345.00
 CONTRACT: 2022.12

SHEET NUMBER: 29
 29 OF 38

Date: 4/29/2022



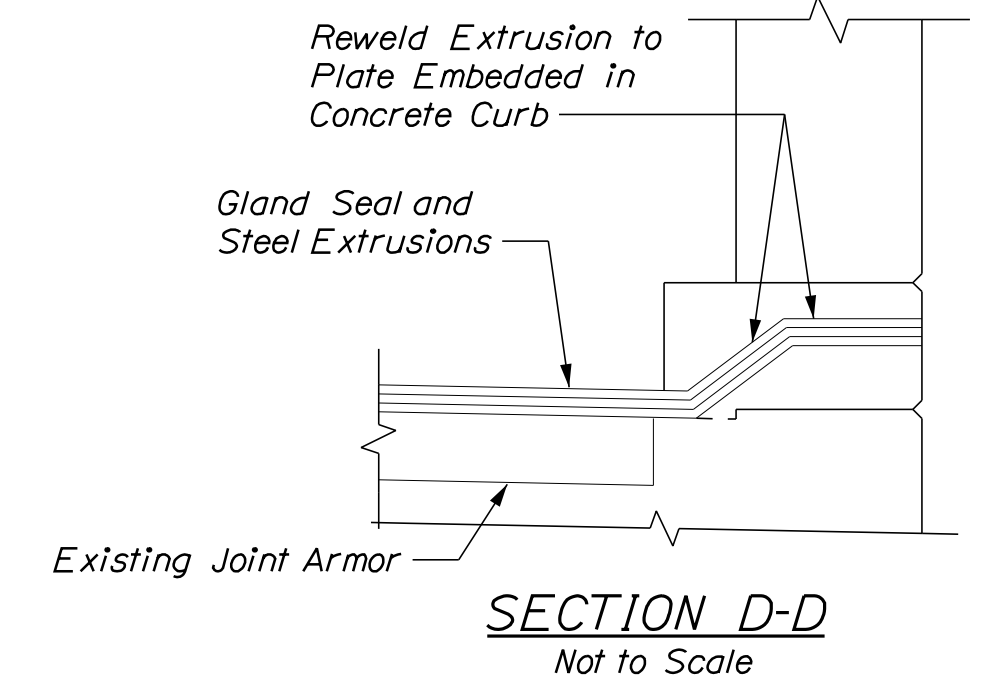
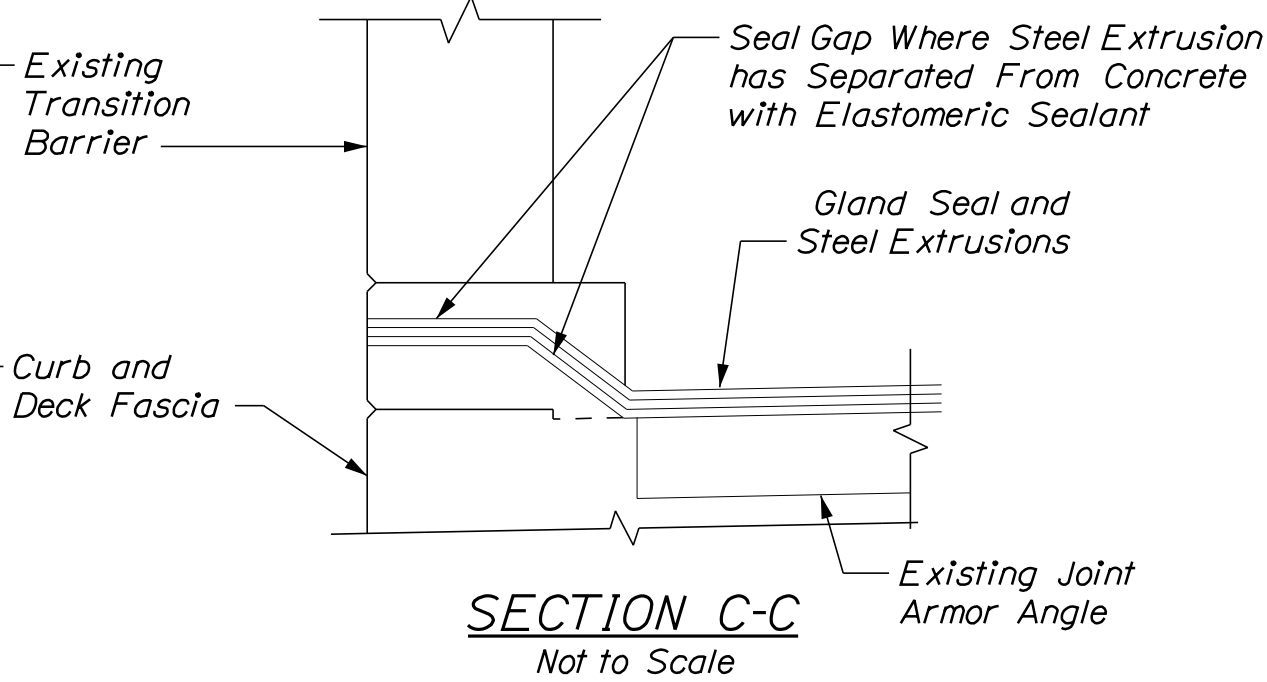
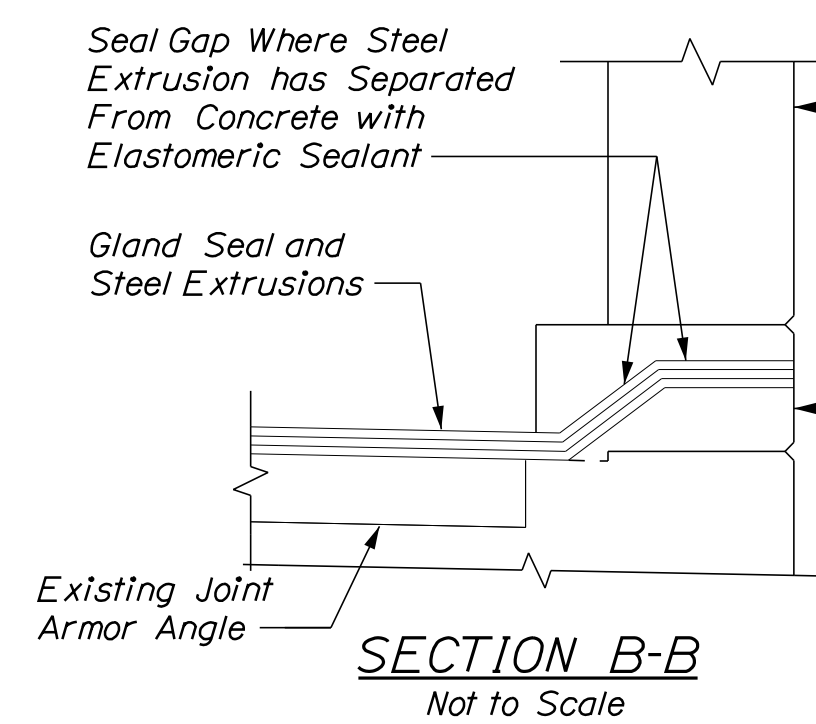
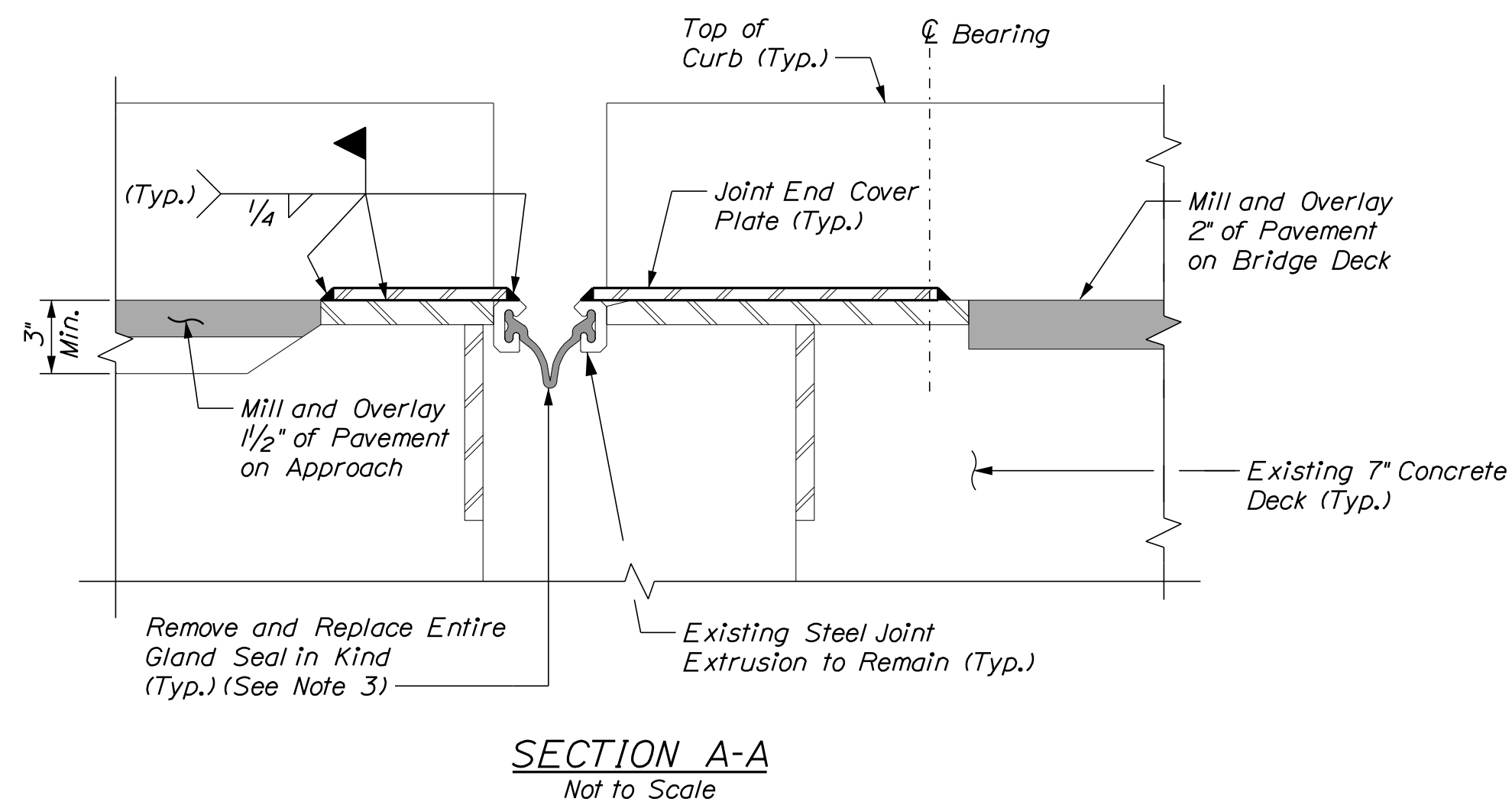
JOINT END COVER PLATE DETAILS

NOTES:


1. All labor, equipment, and material to complete the installation of the joint end cover plates shall be paid for under Item 530.2407, Bridge Joint Steel modification.
2. All labor, equipment, and material to complete the removal and installation of the new gland seal shall be paid for under Item 520.50 Remove and Replace Gland Seal.

SHEET NOTE:

1. See Bridge Joint Modifications Sheet 1 of 2 for locations of sections and joint end cover plates.



No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

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

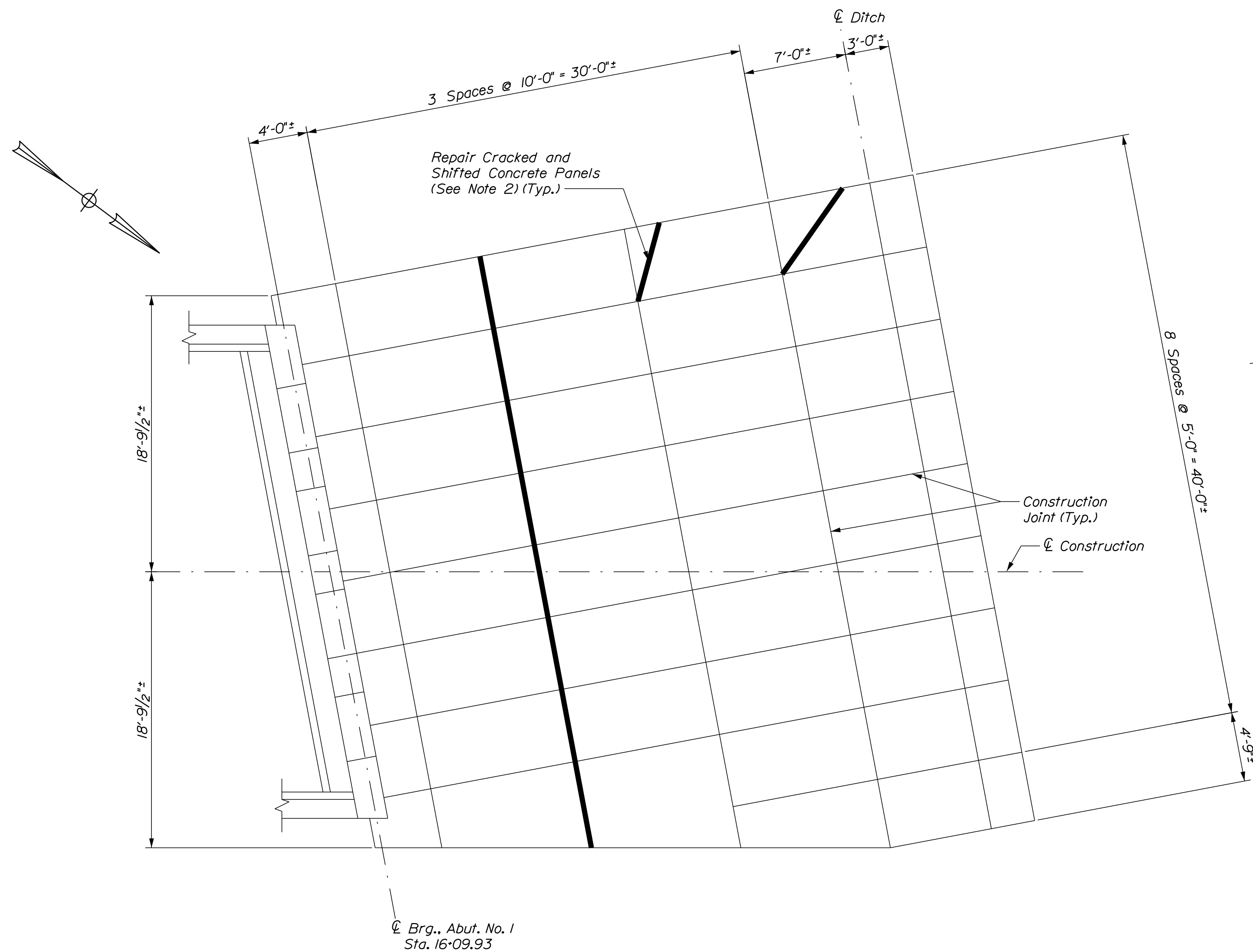
MTA PROJECT NO. 2022.12
 WILSON ROAD UNDERPASS
 AT MM 2.0 IN YORK, ME
 BRIDGE JOINT MODIFICATIONS (2 OF 2)

VHB: 55345.00
 CONTRACT: 2022.12

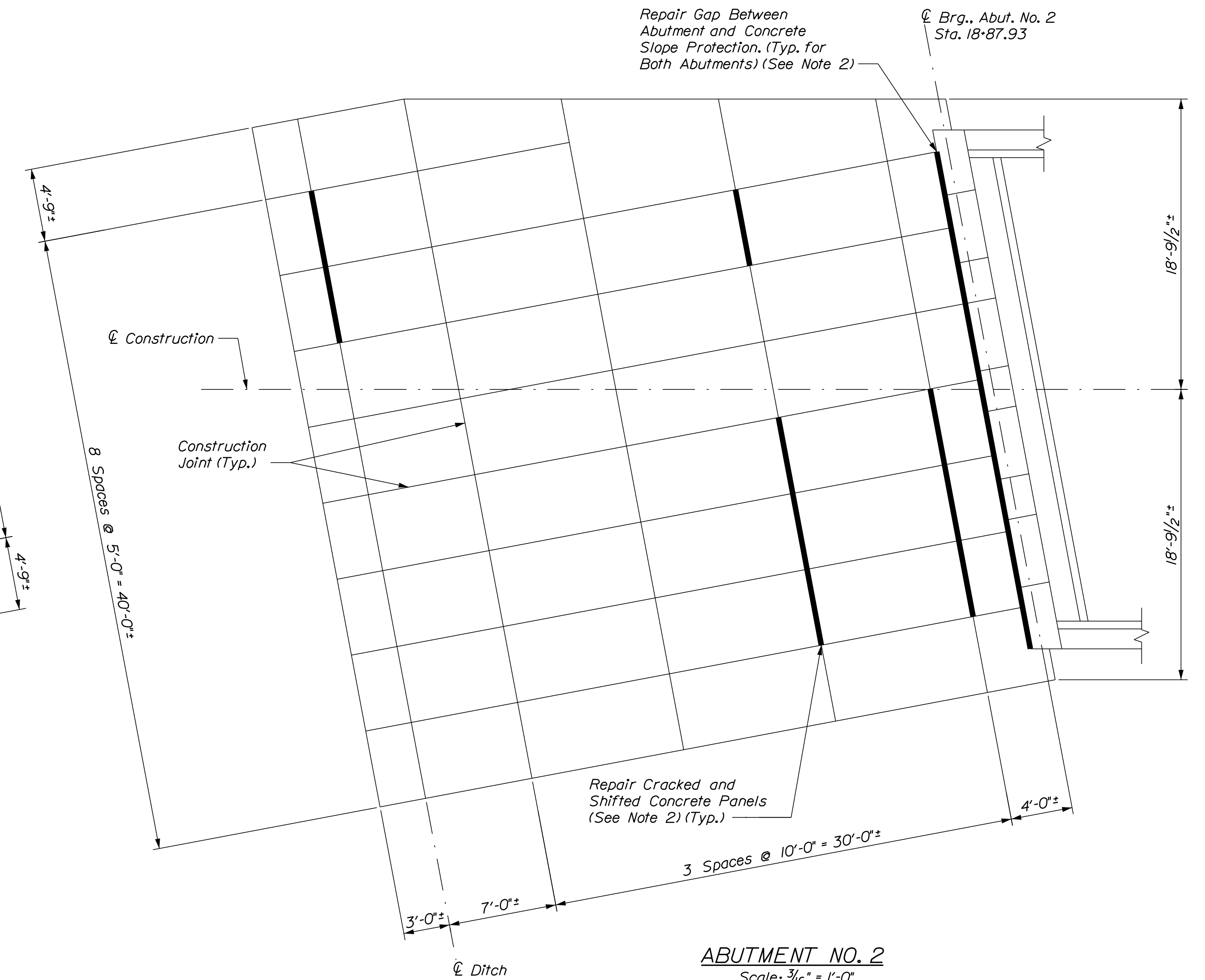
SHEET NUMBER: **30**
30 OF 38

Filename: ...030_Brg-Joint-Repair_2.dgn

Date: 4/29/2022



ABUTMENT NO. 1
Scale: 3/16" = 1'-0"



ABUTMENT NO. 2
Scale: 3/16" = 1'-0"

NOTES

- Existing Slope Protection dimensions may vary. Contractor shall field verify dimension prior to panel replacement.
- Repair cracked and shifted concrete slope protection panels as directed by the resident. Repair Material shall be in accordance with Supplemental Specification 518. This work shall be paid for under Item 518.92 Slope Protection Repairs.

Filename: ...031_Slope.dgn

Scale: 1" = 15'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
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THE GOLD STAR MEMORIAL HIGHWAY

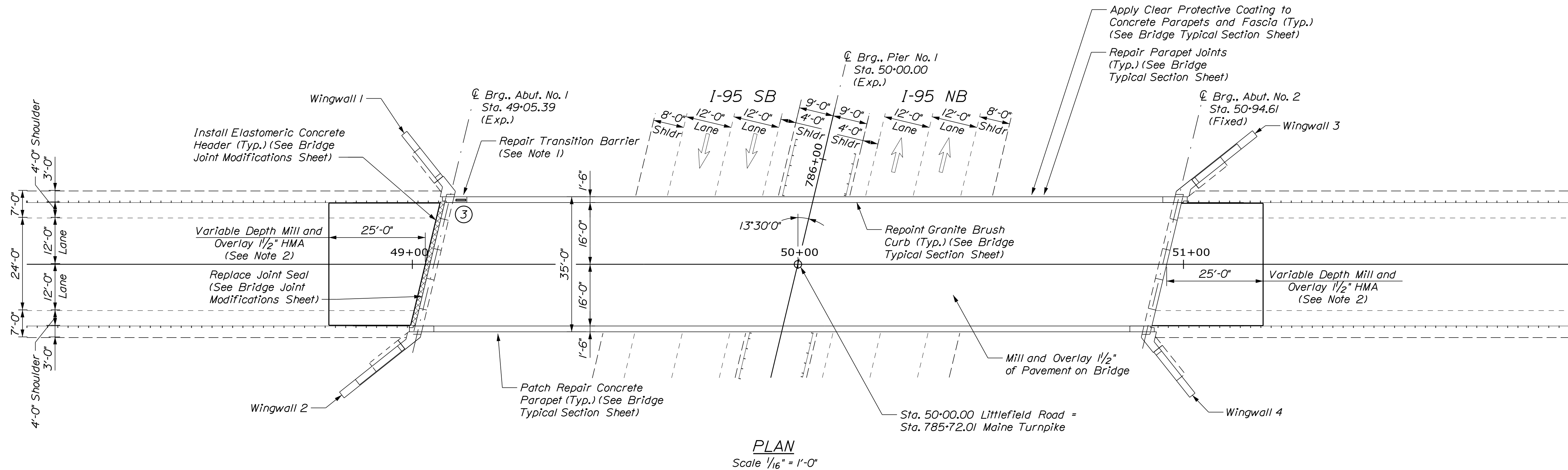
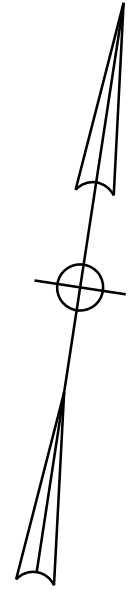
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
WILSON ROAD UNDERPASS
AT MM 2.0 IN YORK, ME
SLOPE PROTECTION REPAIRS

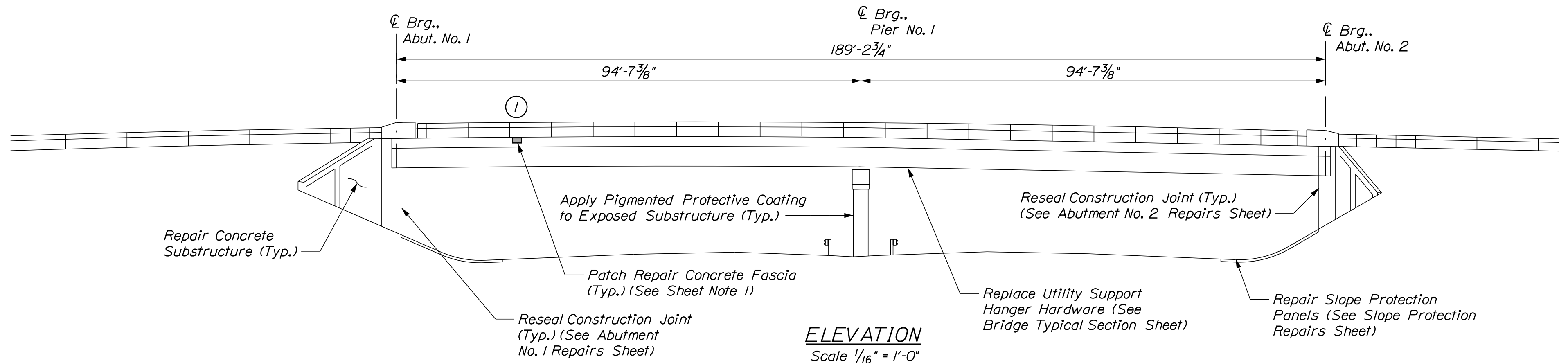
VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 31
31 OF 38

Date: 4/29/2022



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



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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Transition Barrier Concrete Repairs	5*
* Includes 2 S.F. Additional Repair Quantity As A Contingency	
Parapet Surface Repairs	200**
** Includes 14 S.F. Additional Repair Quantity As A Contingency	
Fascia and Overhang Repairs	5***
*** Includes 4 S.F. Additional Repair Quantity As A Contingency	

NOTES

- Transition barrier concrete repairs shall be paid for under Item 518.10 Abutment Repairs.
- Mill variable depth 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.

SHEET NOTE

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


KEY

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



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
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THE GOLD STAR MEMORIAL HIGHWAY

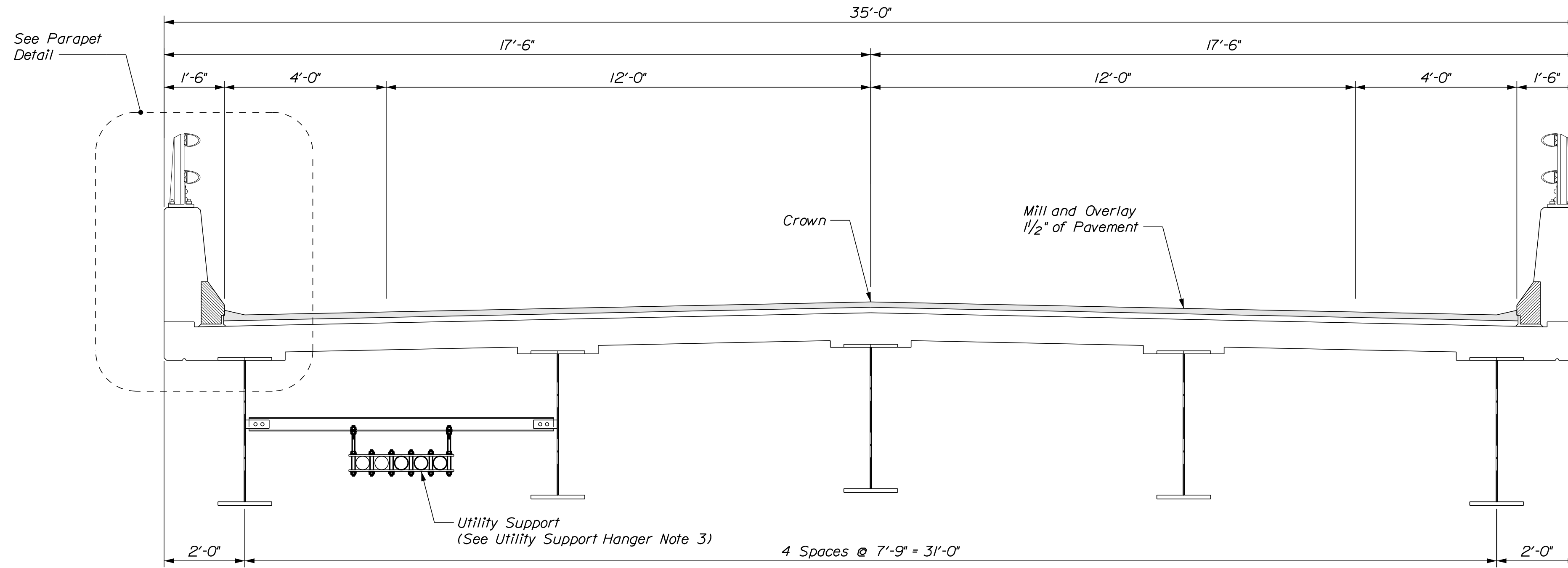
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
GENERAL PLAN AND ELEVATION

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: 32
32 OF 38

Date: 4/29/2022



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

UTILITY SUPPORT HANGER NOTES

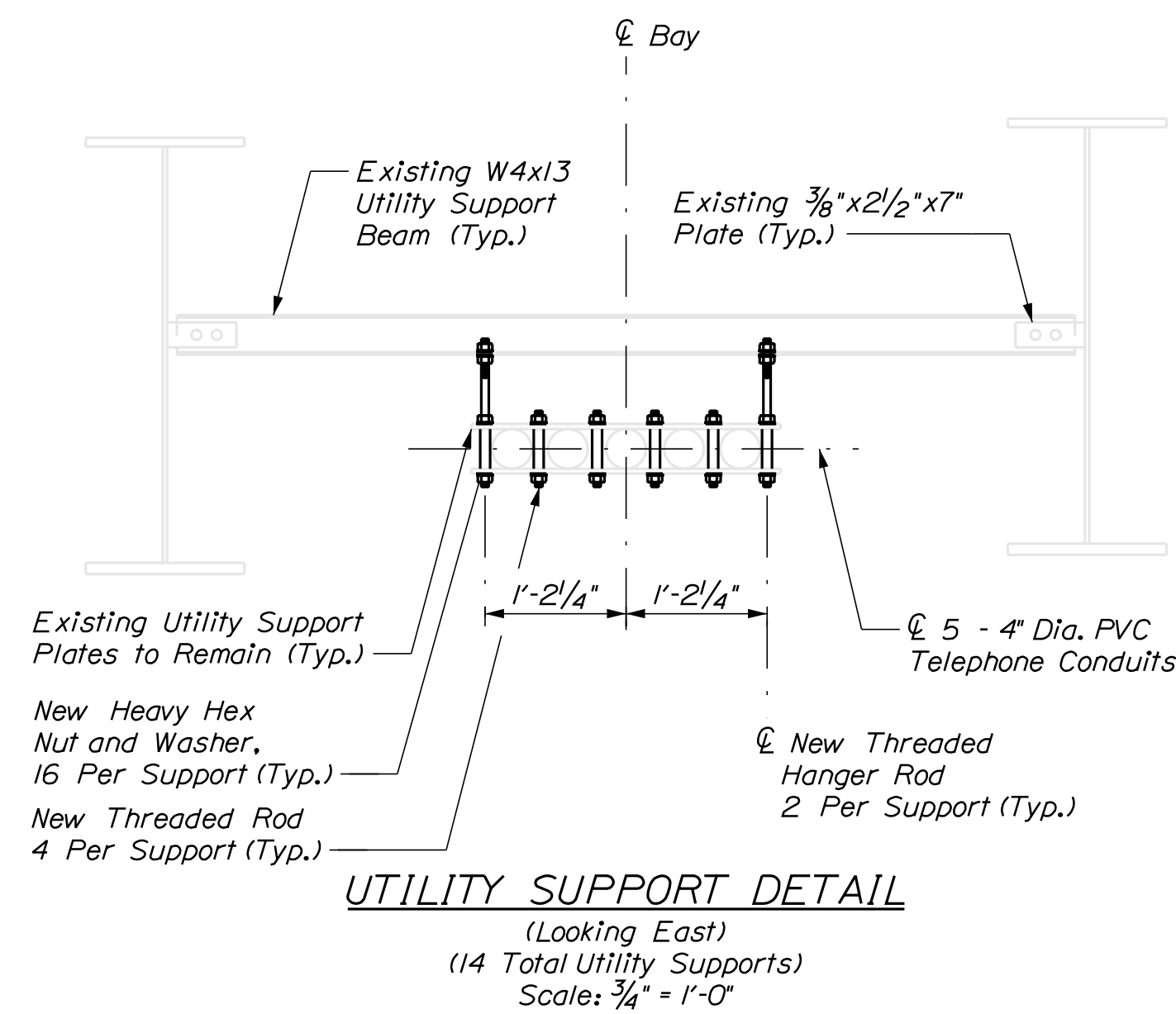
1. The utility support hardware shall be replaced at all utility support hangers. The existing composite support hardware shall be re-used. The conduit shall be temporarily supported at the location being replaced. The Contractor shall design and submit installation and temporary support plan at least three weeks prior to performing this work. The Contractor shall be fully responsible for replacing the existing composite square tube and pipe hardware if damaged during removal and re-installation.
2. Contractor shall field verify threaded rod lengths prior to rod and hardware procurement. The rod length and hardware depicted in the plan set is based on limited field measurements within the shoulder of each bridge location. Field cutting new threaded rod will not be permitted.
3. All labor, equipment, and materials necessary to repair the utility conduit hangers shall be paid for under Item 830.17, Utility Conduit Hanger System Hardware.

MATERIAL NOTE

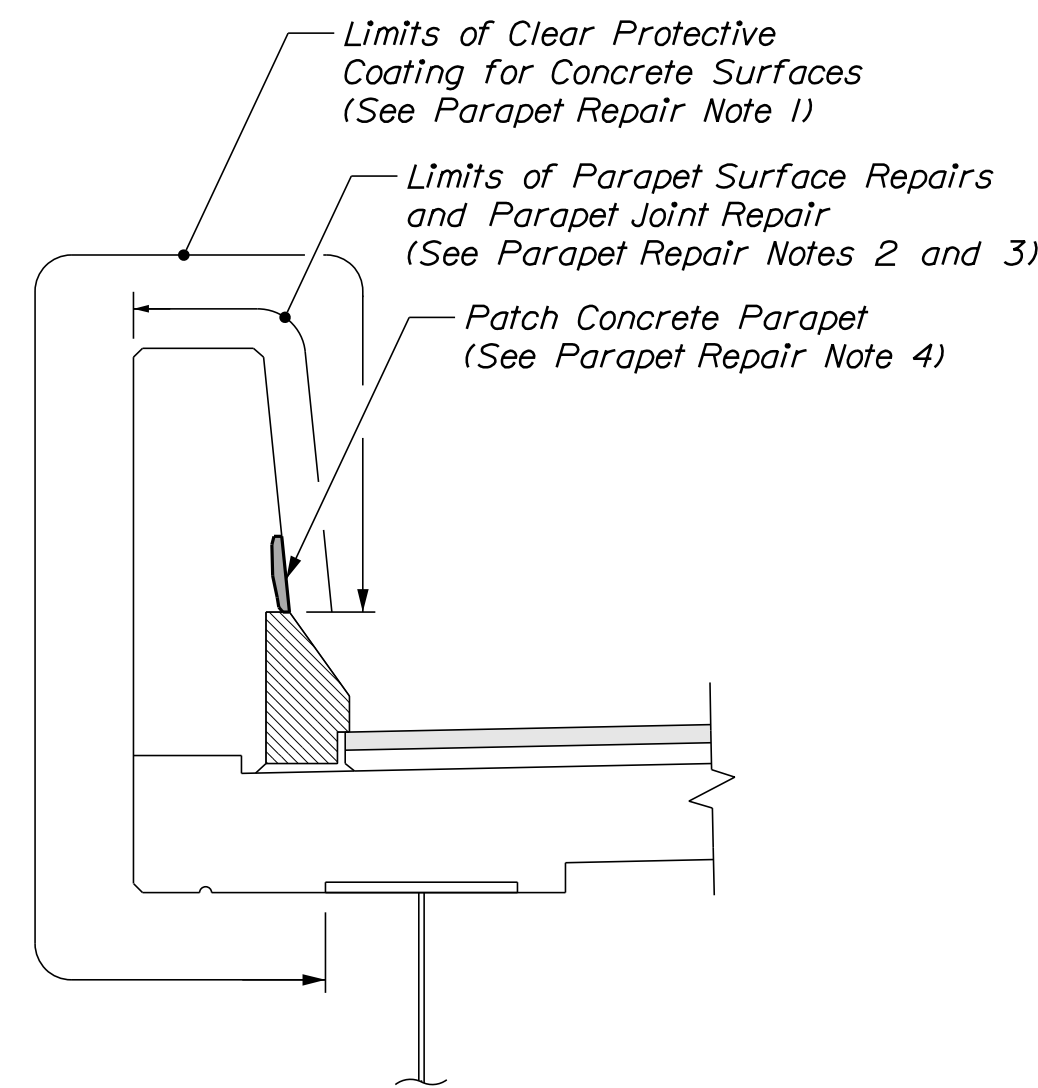
1. All utility support hardware shall consist of 3/4" dia. Grade A36 threaded rod, 1/4" Grade A563 heavy hex locking nuts and associated washers. All hardware shall be hot dipped galvanized.

PARAPET REPAIR NOTES

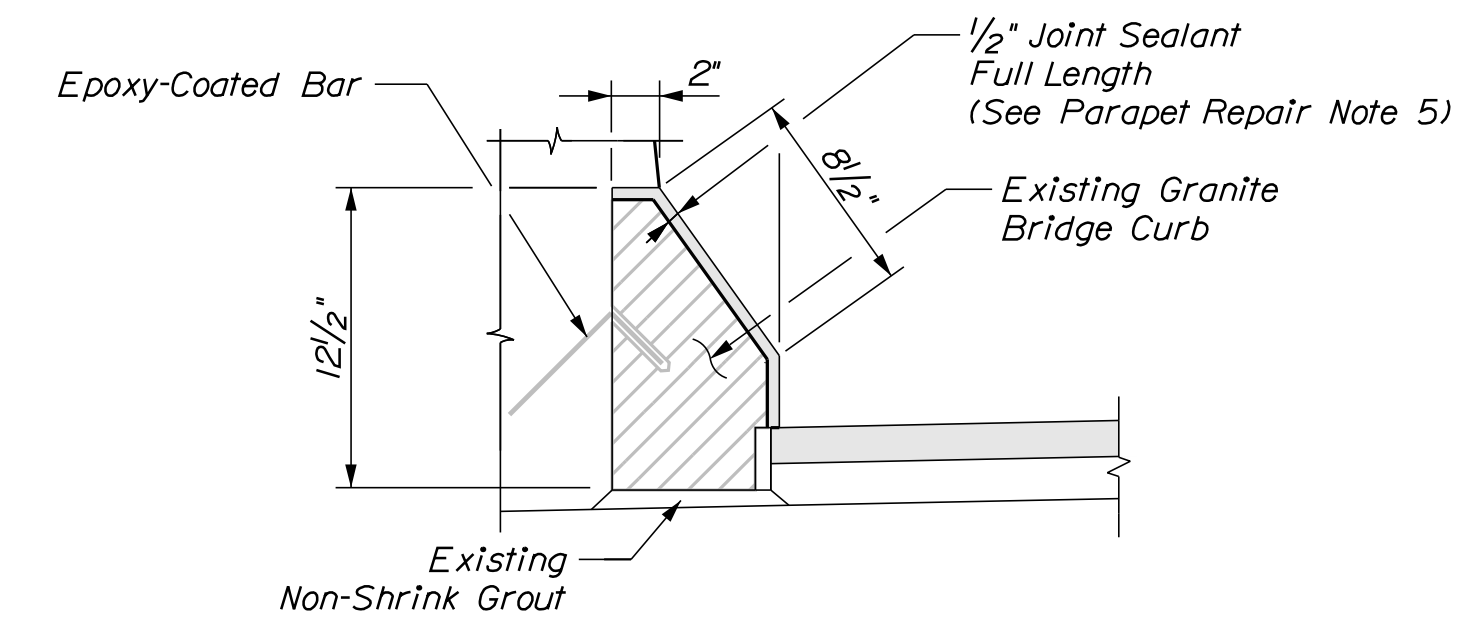
1. Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
2. Prior to application of clear protective coating the Contractor shall fill all honeycomb voids with an approved nonshrink grout. All costs for this work shall be paid for under Item 518.94, Parapet Surface Repairs.
3. Repair parapet joints as directed by the Resident. Joint sealant shall be from MaineDOT Qualified Product List for Silicone and Polyurethane Joint Sealant. Work shall be paid for under Item 518.48 Reseal Joints.
4. Patch Repairs to concrete parapet shall be paid under Item 518.93 Parapet Repairs.
5. Joint Sealant shall be a material from the Maine DOT approved products list as approved by the resident. Joint Sealant shall be incidental to Item 518.391 Repair Granite Curb Joint and Bedding Mortar.



UTILITY SUPPORT DETAIL
(Looking East)
(14 Total Utility Supports)
Scale: 3/4" = 1'-0"



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



EXISTING GRANITE CURB DETAIL
1/2" = 1'-0"

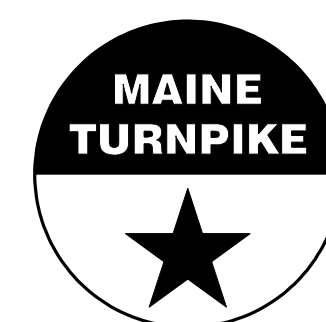
Filename: ...033_BTyp_01.dgn

Scale: AS NOTED

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
BRIDGE TYPICAL SECTION

No.	Revision	By	Date

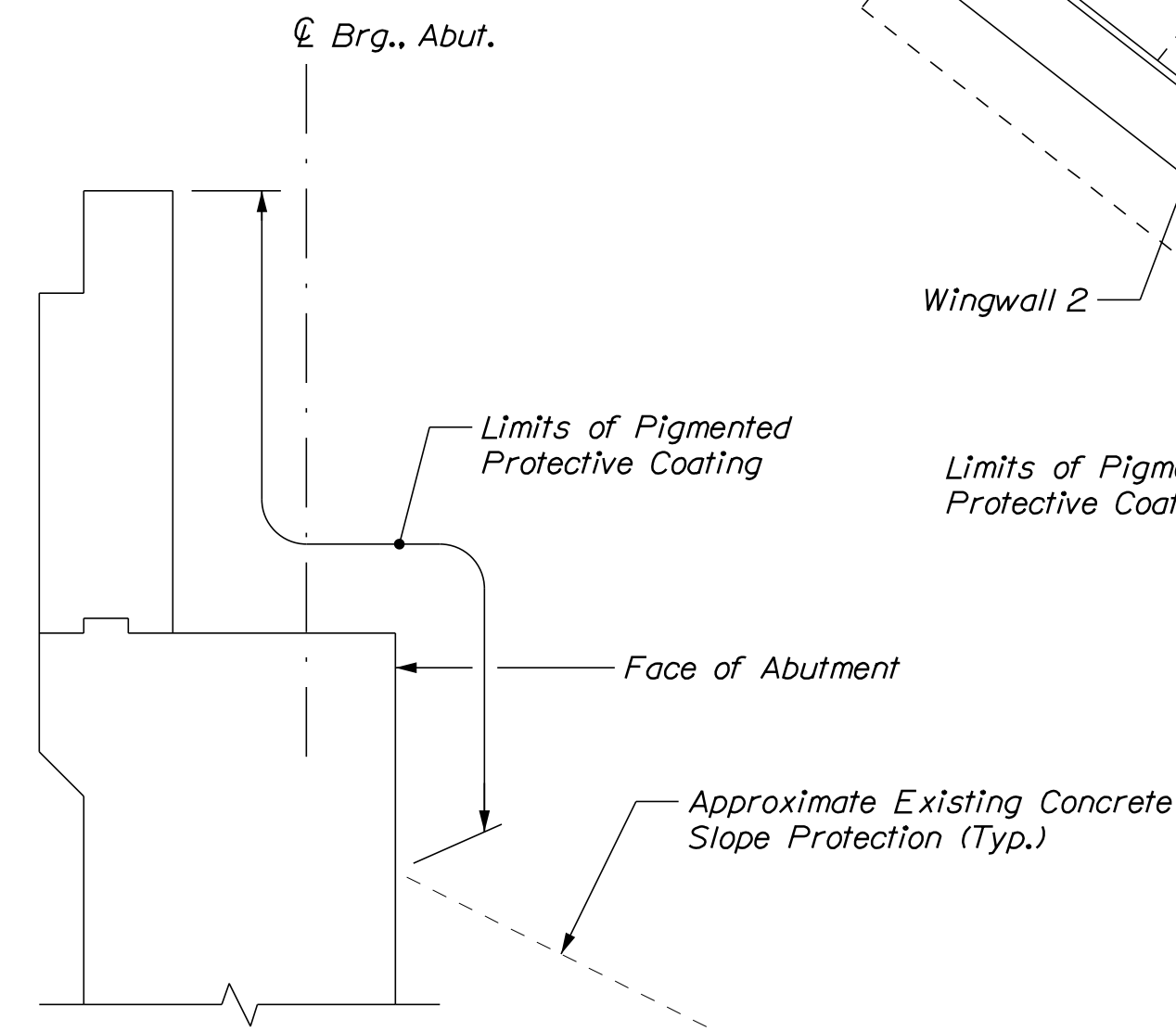
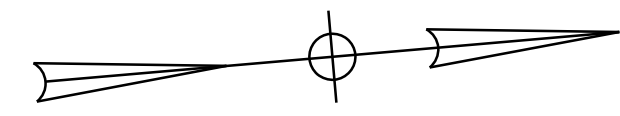
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

VHB: 55345.00
CONTRACT: 2022.12

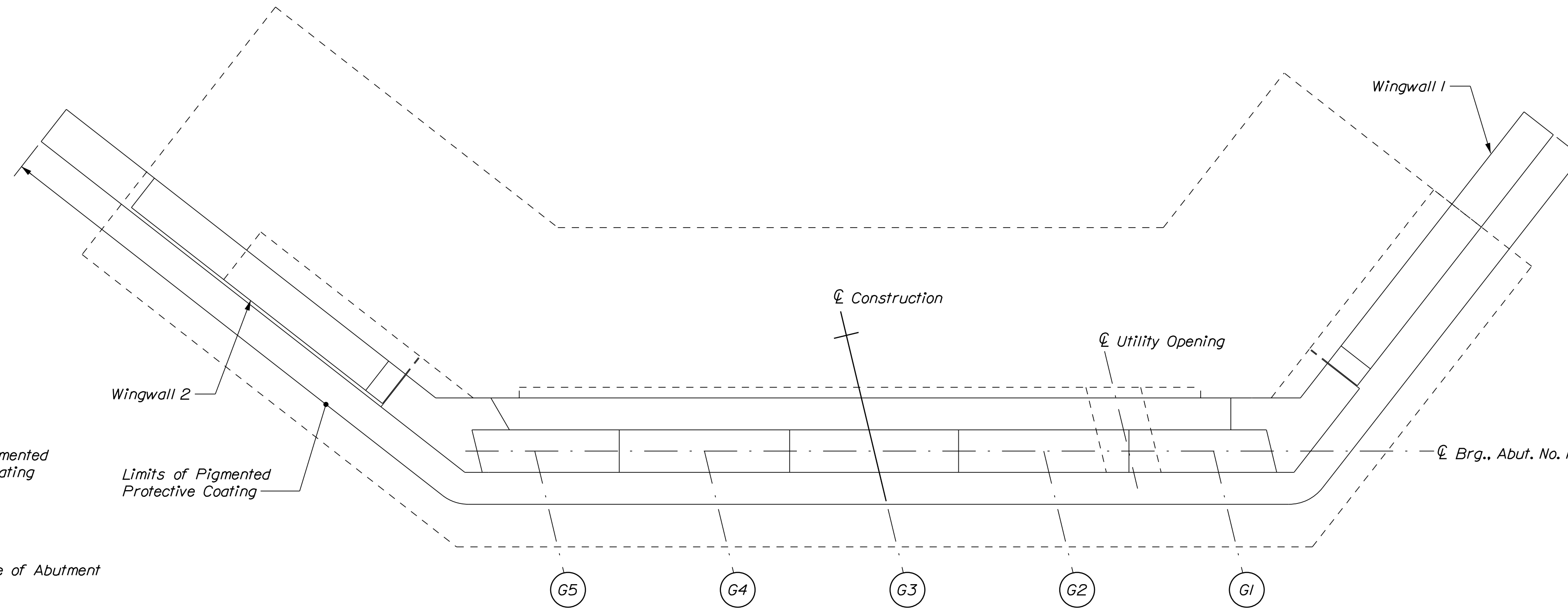
SHEET NUMBER: **33**
33 OF 38

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

Date: 4/29/2022



TYPICAL ABUTMENT SECTION
Not to Scale



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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

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

NOTE

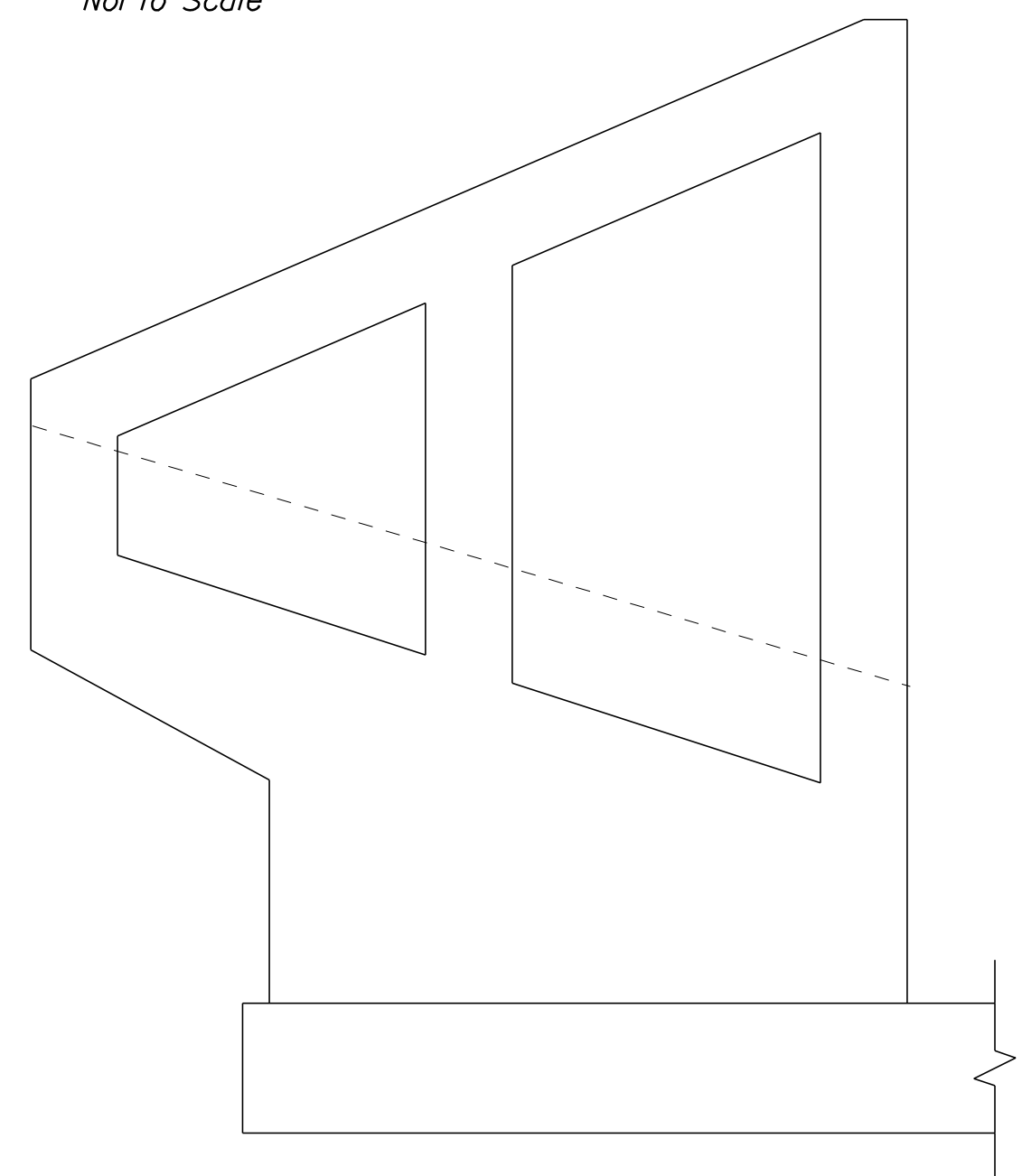
1. Repair construction joint as directed by the Resident. Joint sealant shall be from the MaineDOT Qualified Products List for Silicone and Polyurethane Joint Sealant and shall be paid for under item 518.48 Reseal Joints.

KEY

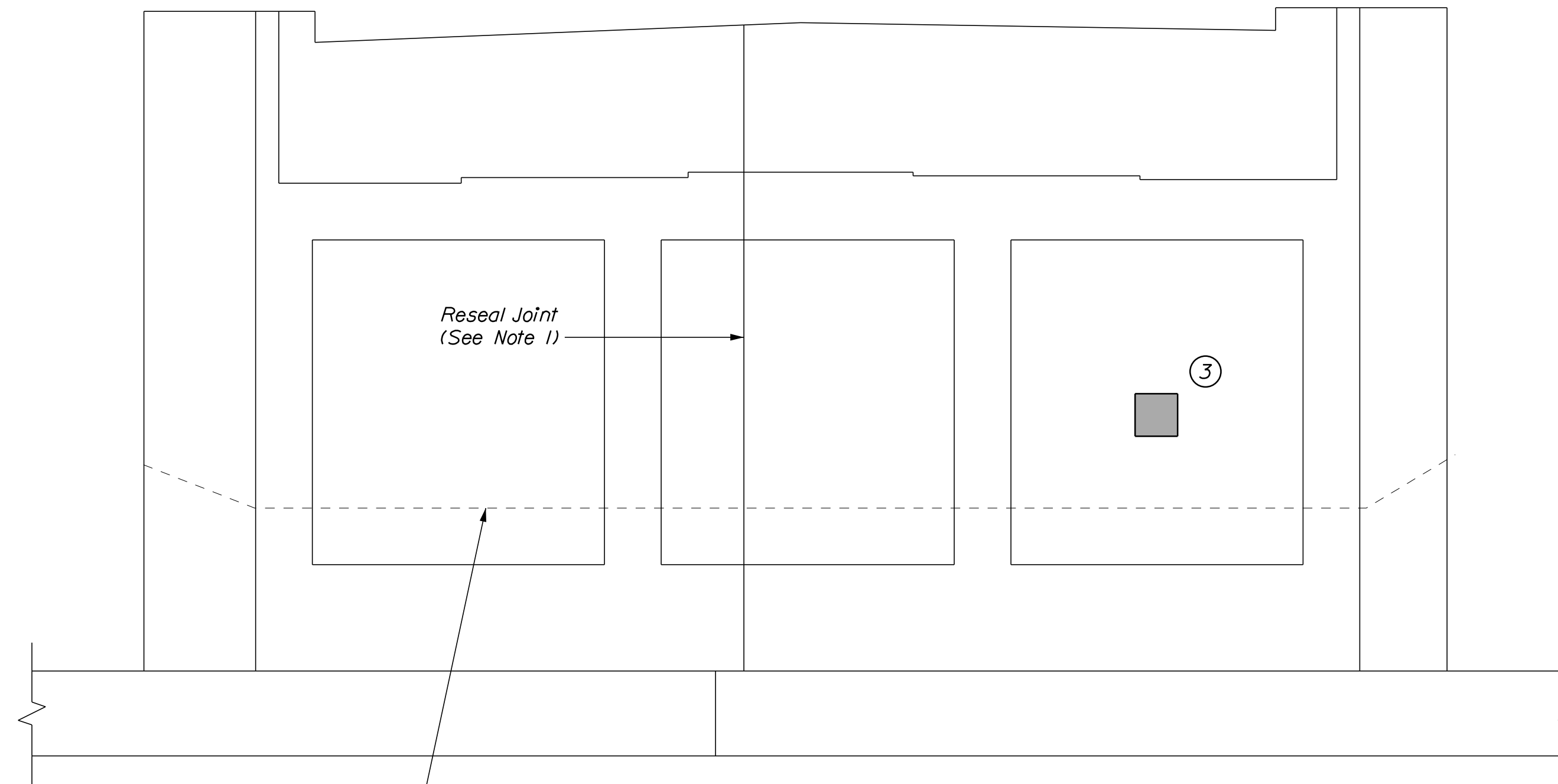
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

SHEET NOTE

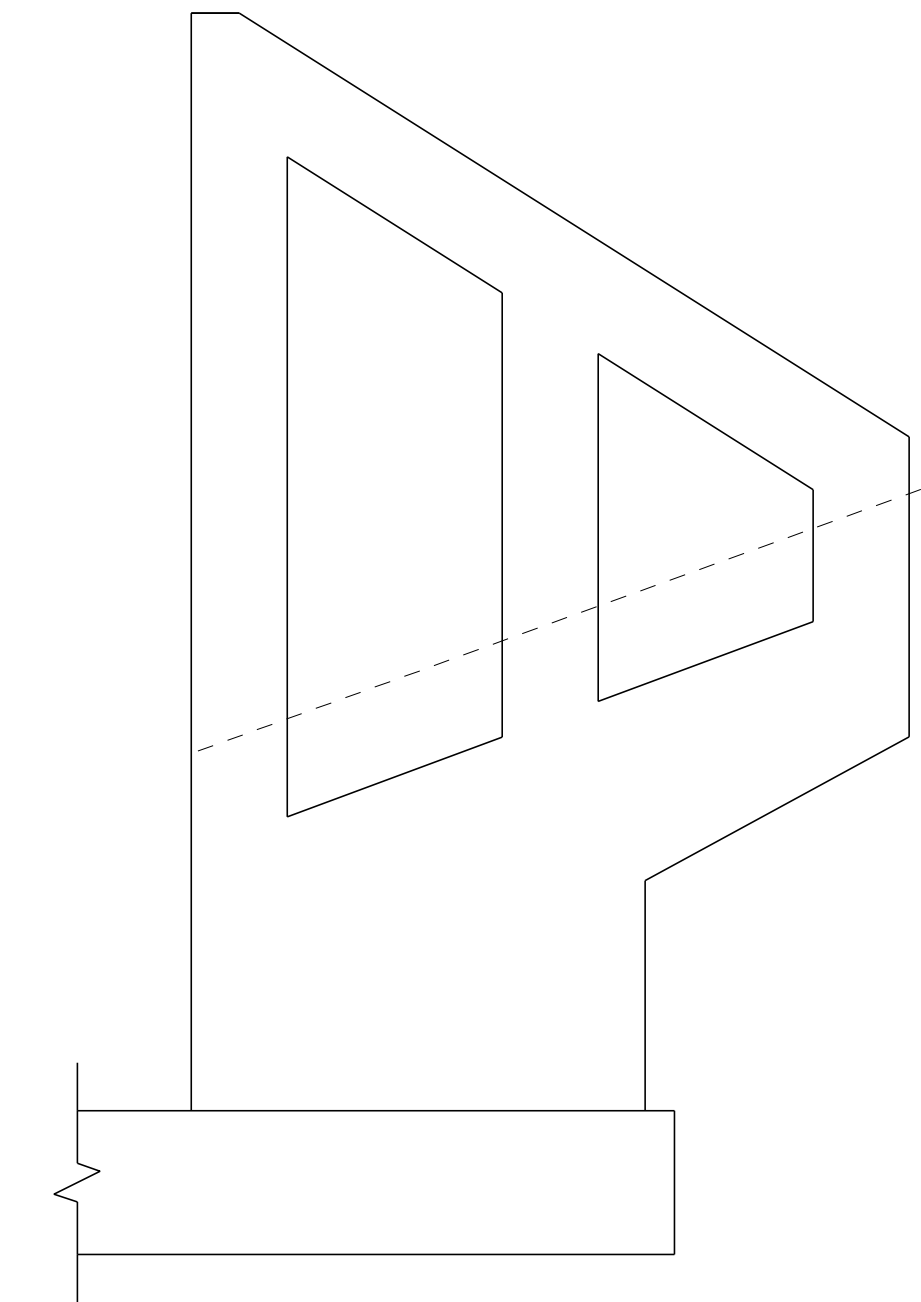
1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.



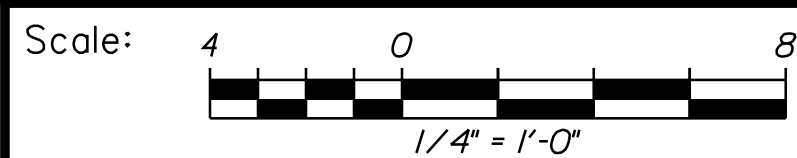
ELEVATION WINGWALL 2
Scale: 1/4" = 1'-0"



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



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



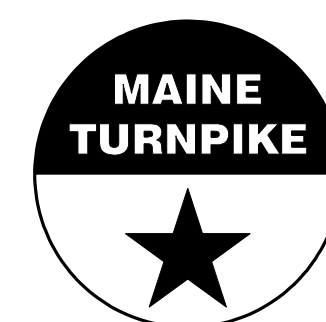
No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

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

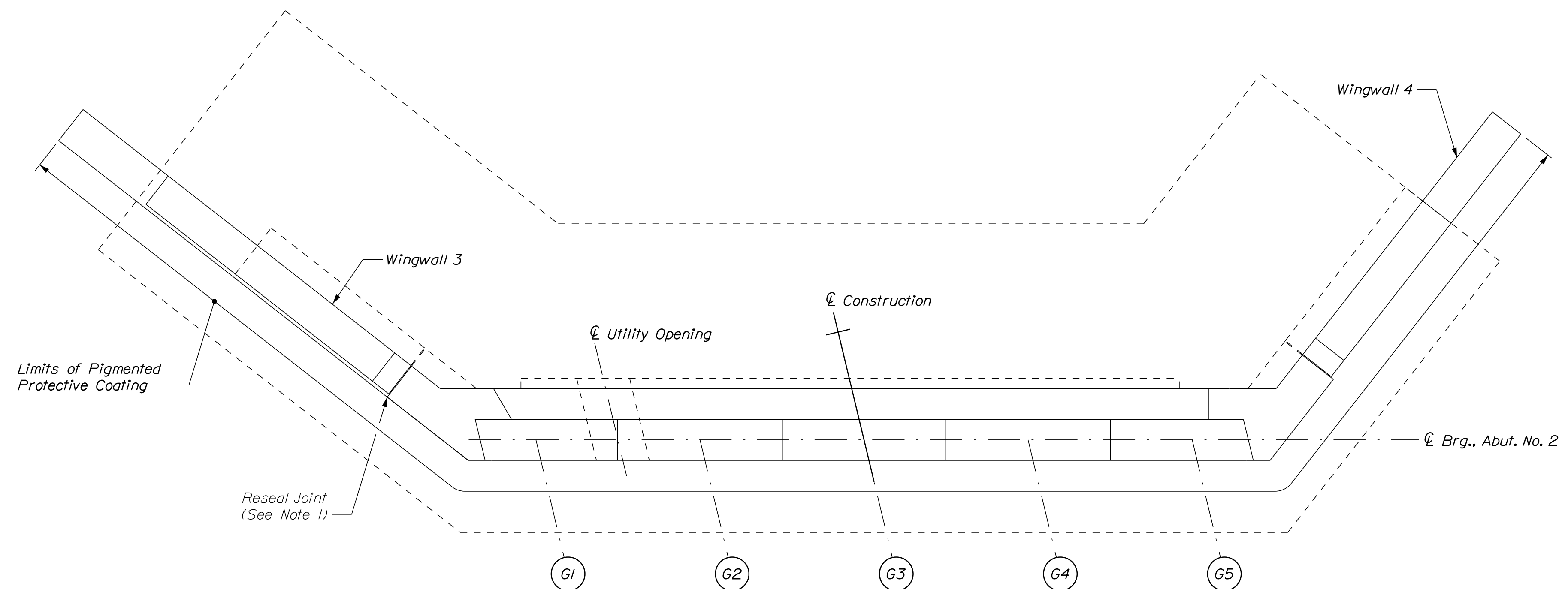
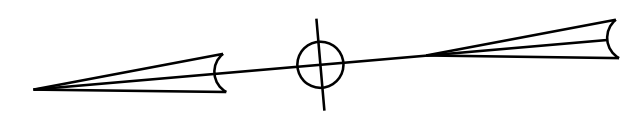
MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
ABUTMENT NO. 1 REPAIRS

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: **34**
34 OF 38

Filename: ...034_Abut_1.dgn

Date: 4/29/2022



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

ESTIMATED CONCRETE REPAIR QUANTITIES (SF)

Surface Abutment Repairs	10*
--------------------------	-----

* Includes 3 S.F. Additional Repair Quantity As A Contingency

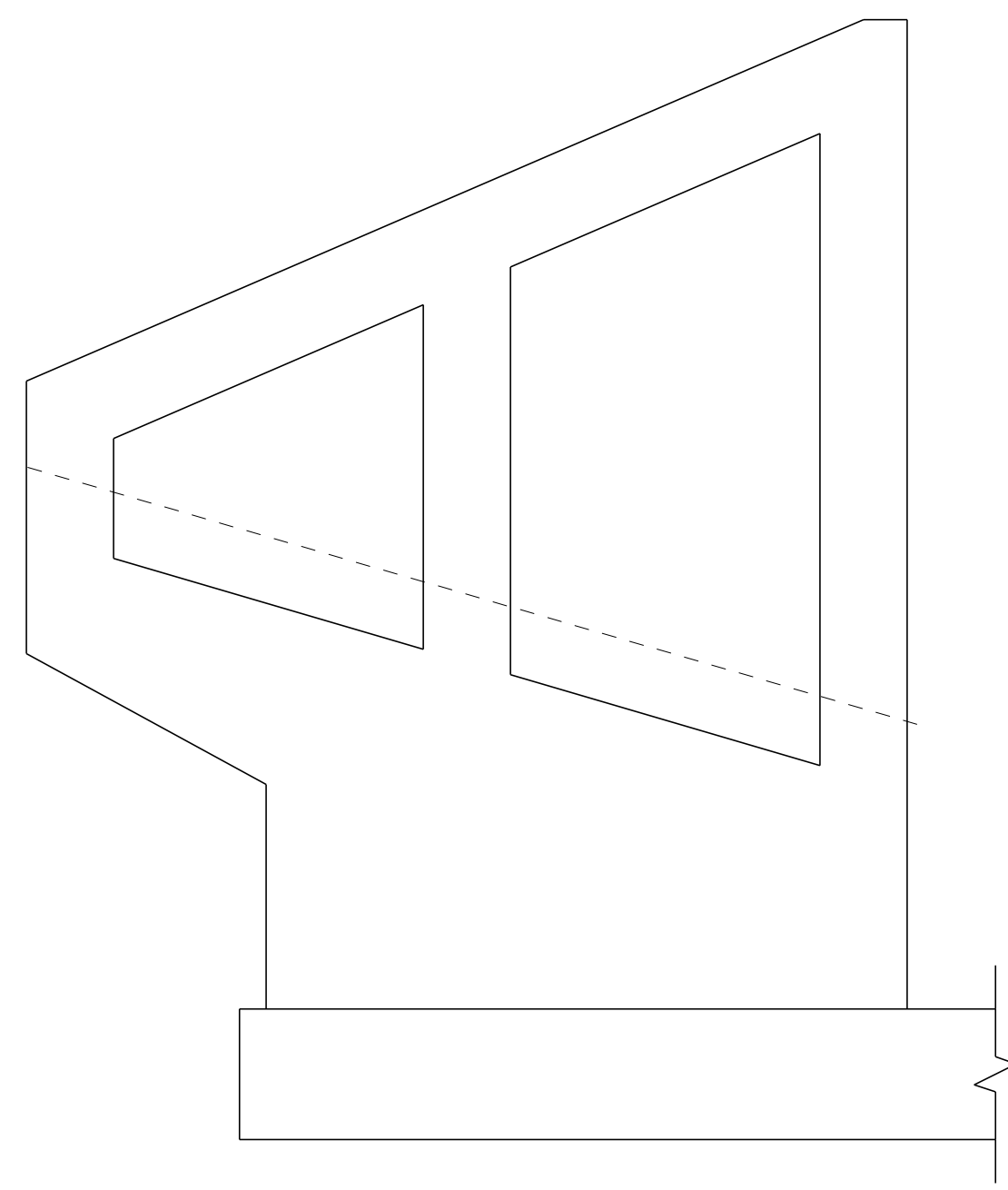
NOTE

1. Repair construction joint as directed by the Resident. Joint sealant shall be from the MaineDOT Qualified Products List for Silicone and Polyurethane Joint Sealant and shall be paid for under item 518.48 Reseal Joints.

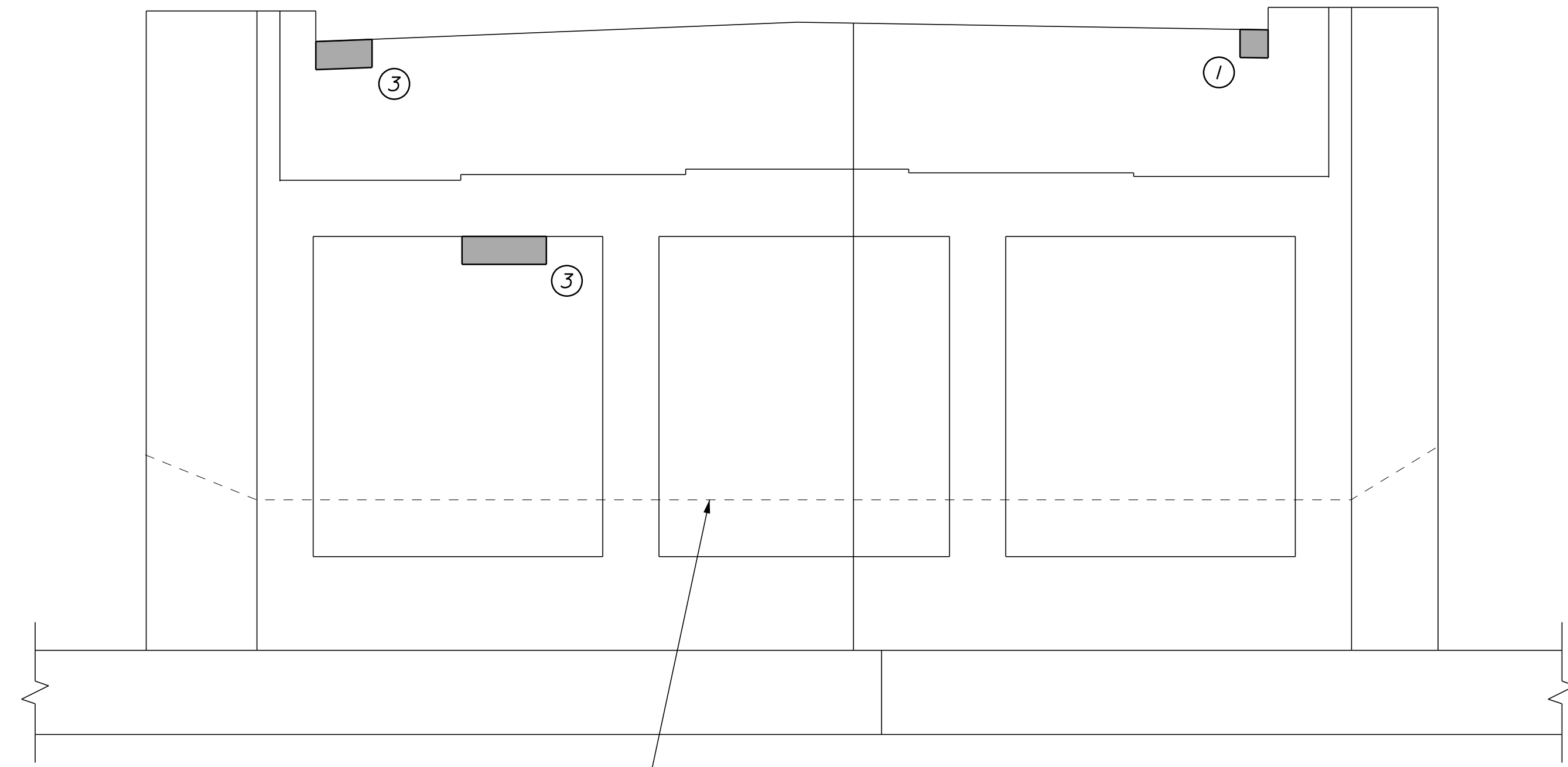
- KEY**
- Limit of Crack Repair
 - Limit of Surface Patch Repair
 - Linear Feet of Crack Repair
 - Square Footage of Repair

SHEET NOTE

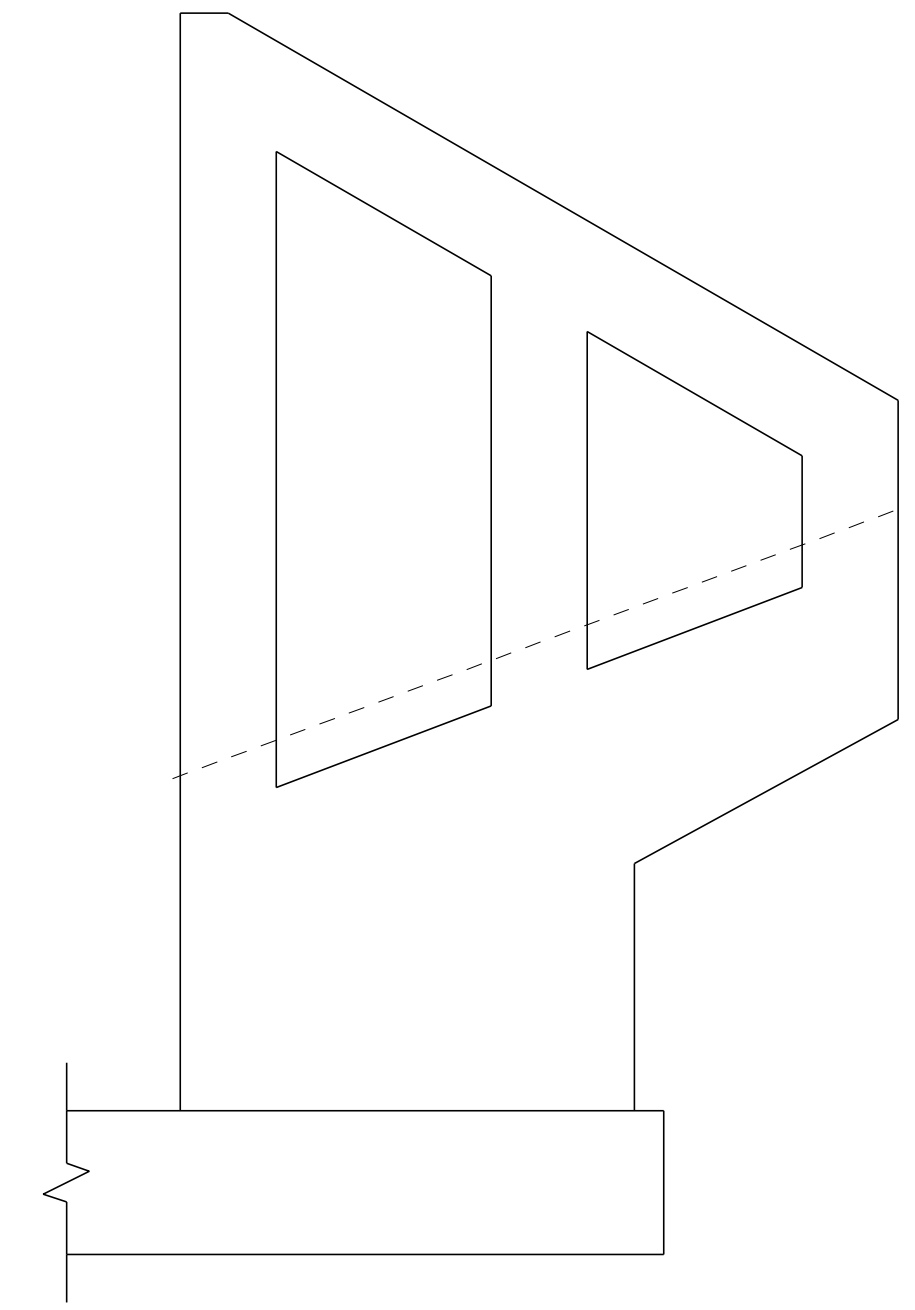
1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.



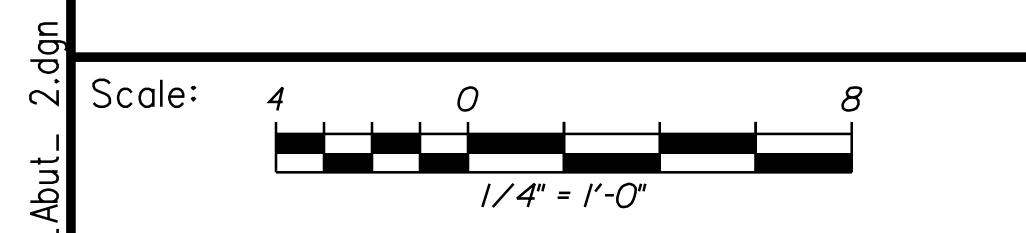
ELEVATION WINGWALL 3
Scale: 1/4" = 1'-0"




Approximate Top of Concrete Slope Protection
ELEVATION
Scale: 1/4" = 1'-0"



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



Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

No.	Revision	By	Date

	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

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

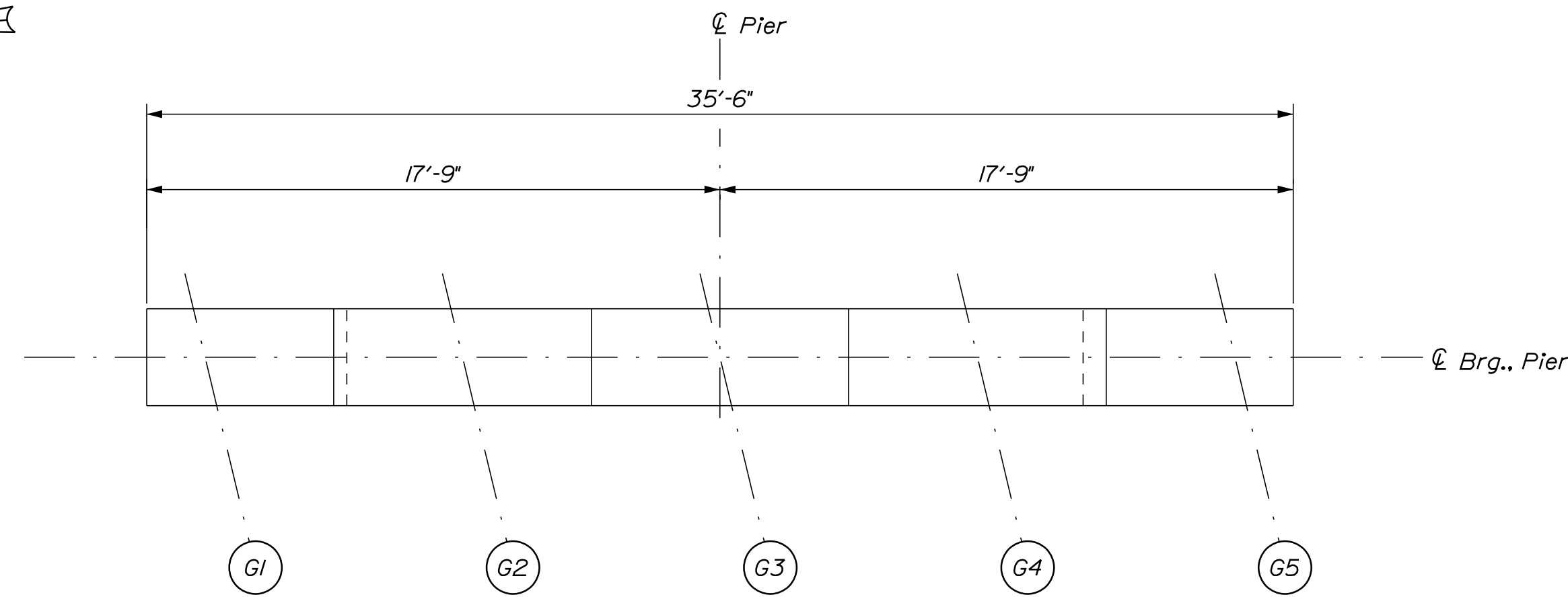
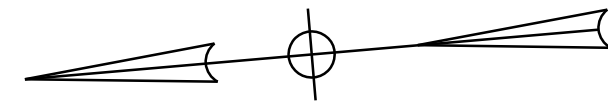
MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
ABUTMENT NO. 2 REPAIRS

VHB: 55345.00
CONTRACT: 2022.12

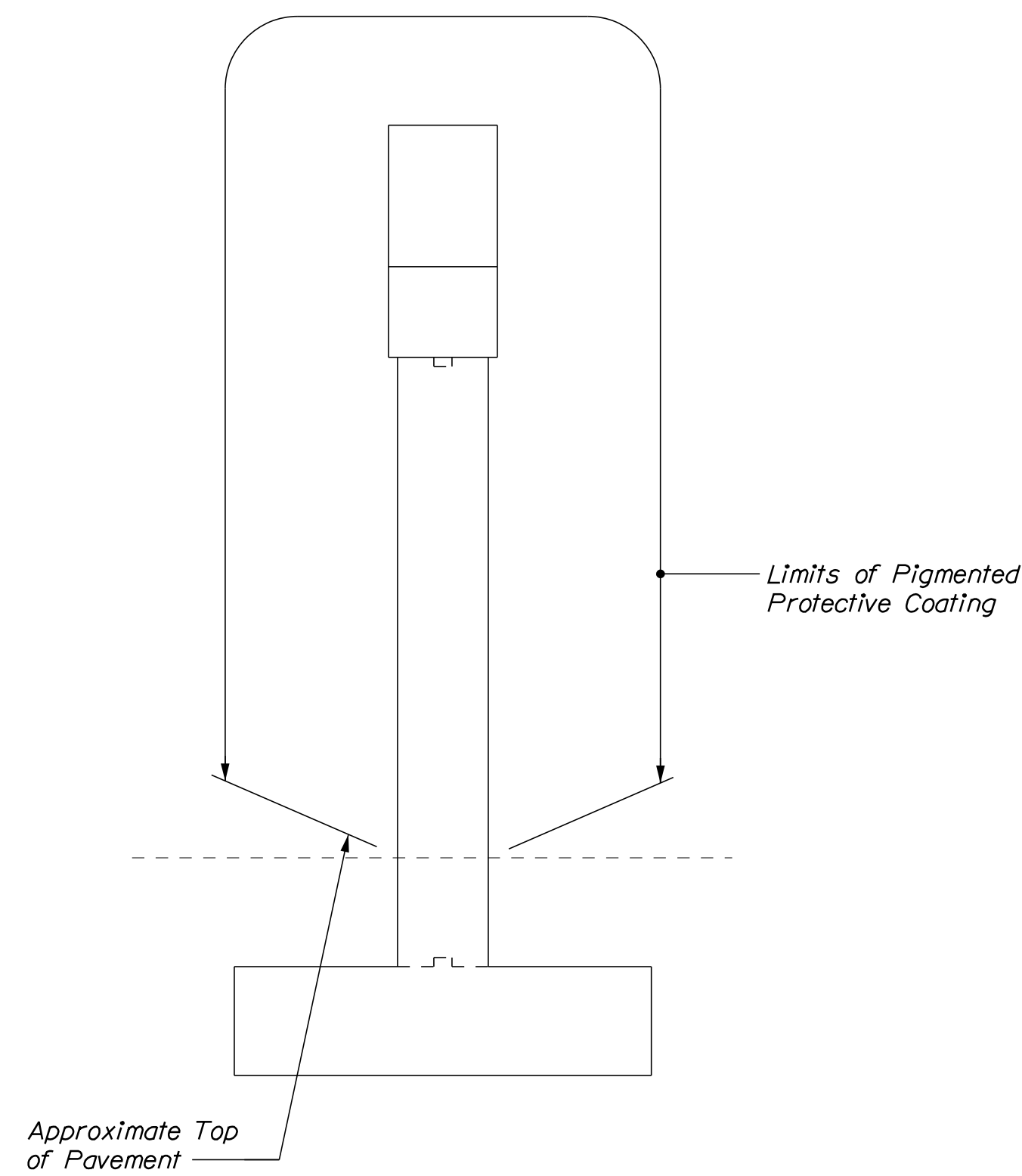
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35 OF 38

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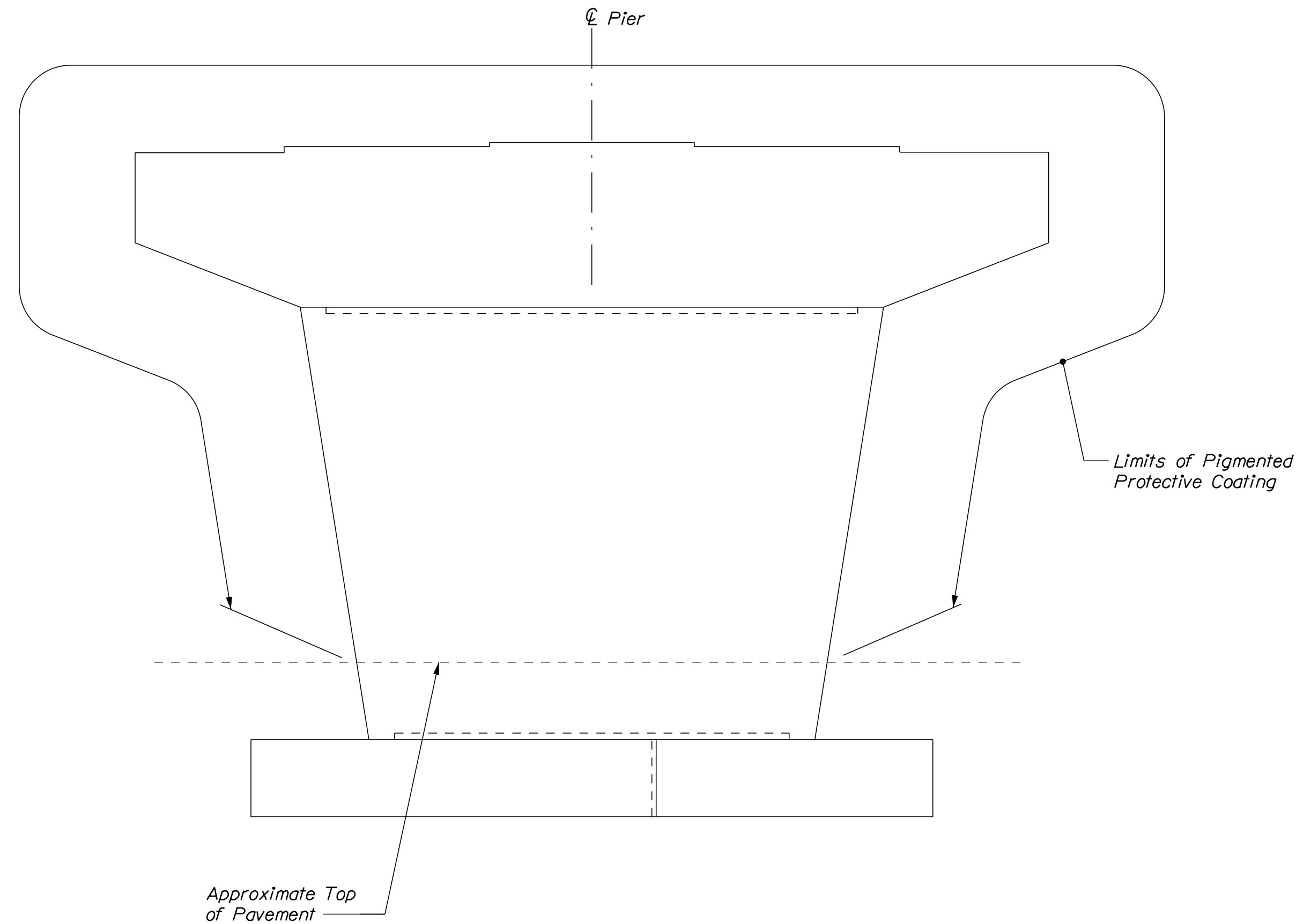
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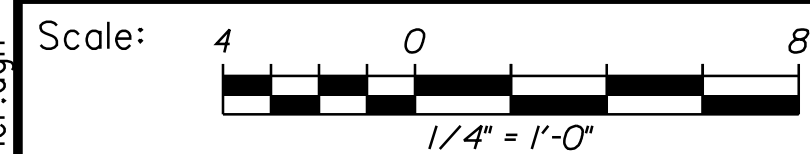
PLAN
Scale: 1/4" = 1'-0"



SIDE VIEW
Scale: 1/4" = 1'-0"



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



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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
PIER REPAIRS

No.	Revision	By	Date

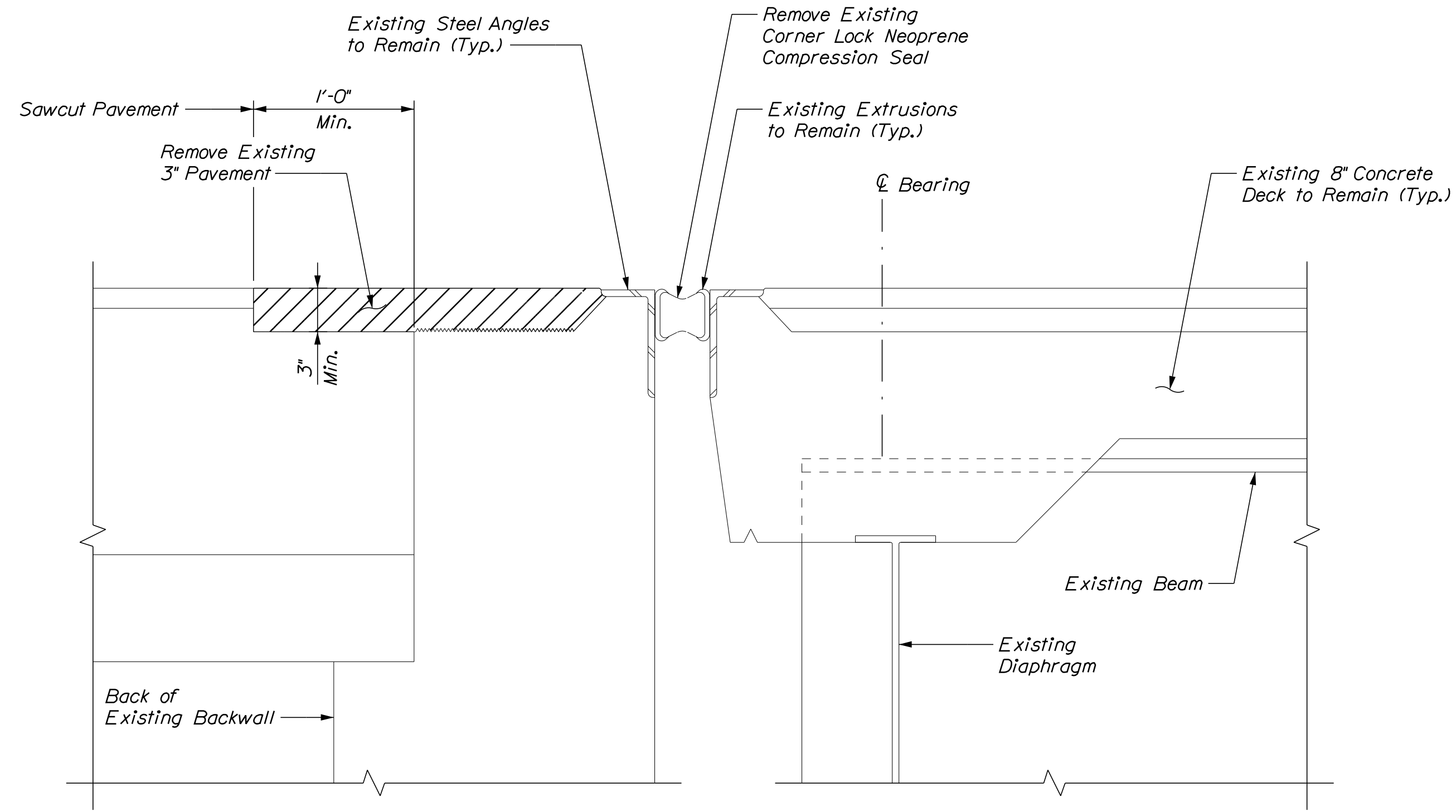
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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

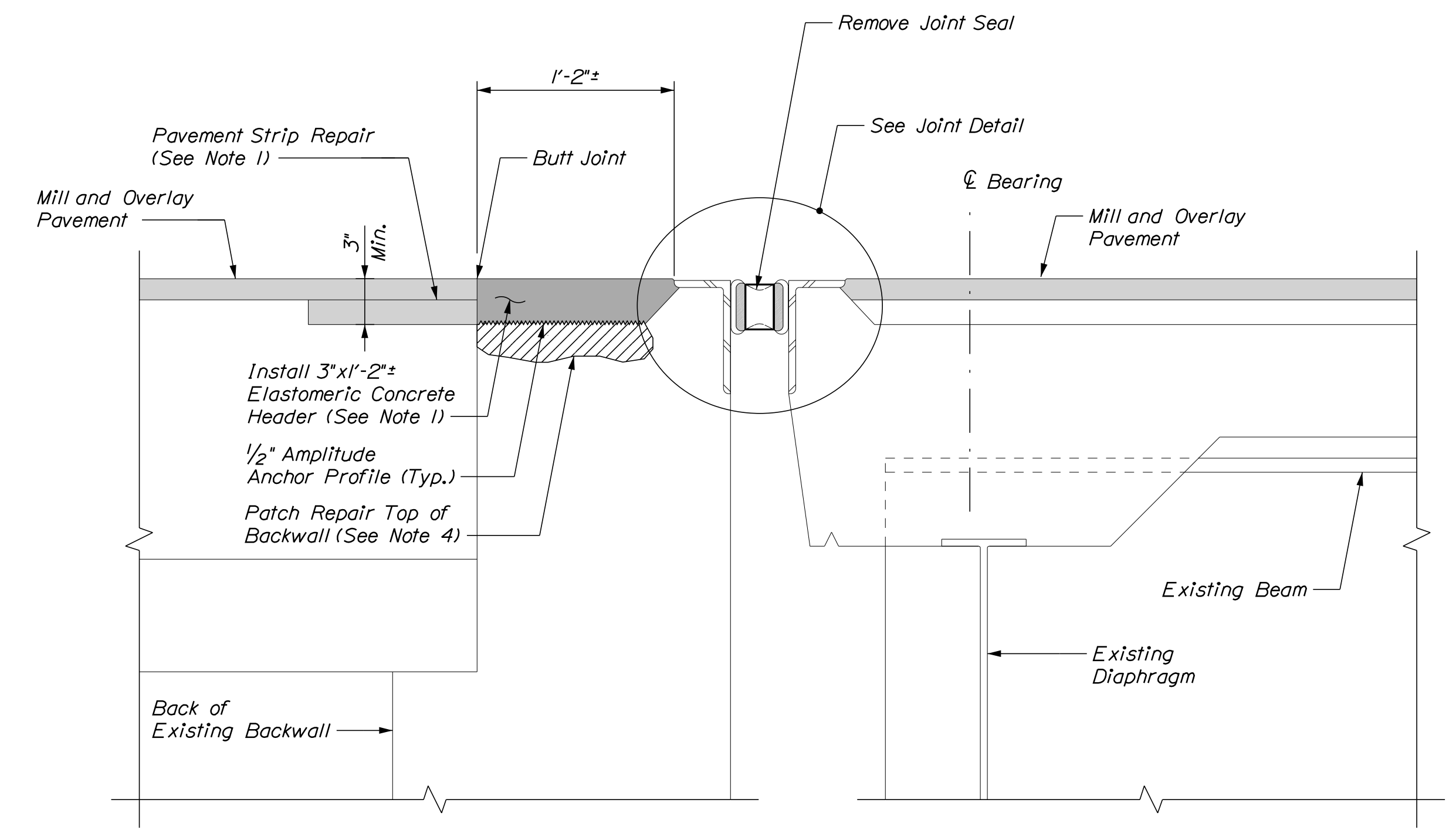
VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: **36**
OF **38**

Date: 4/29/2022

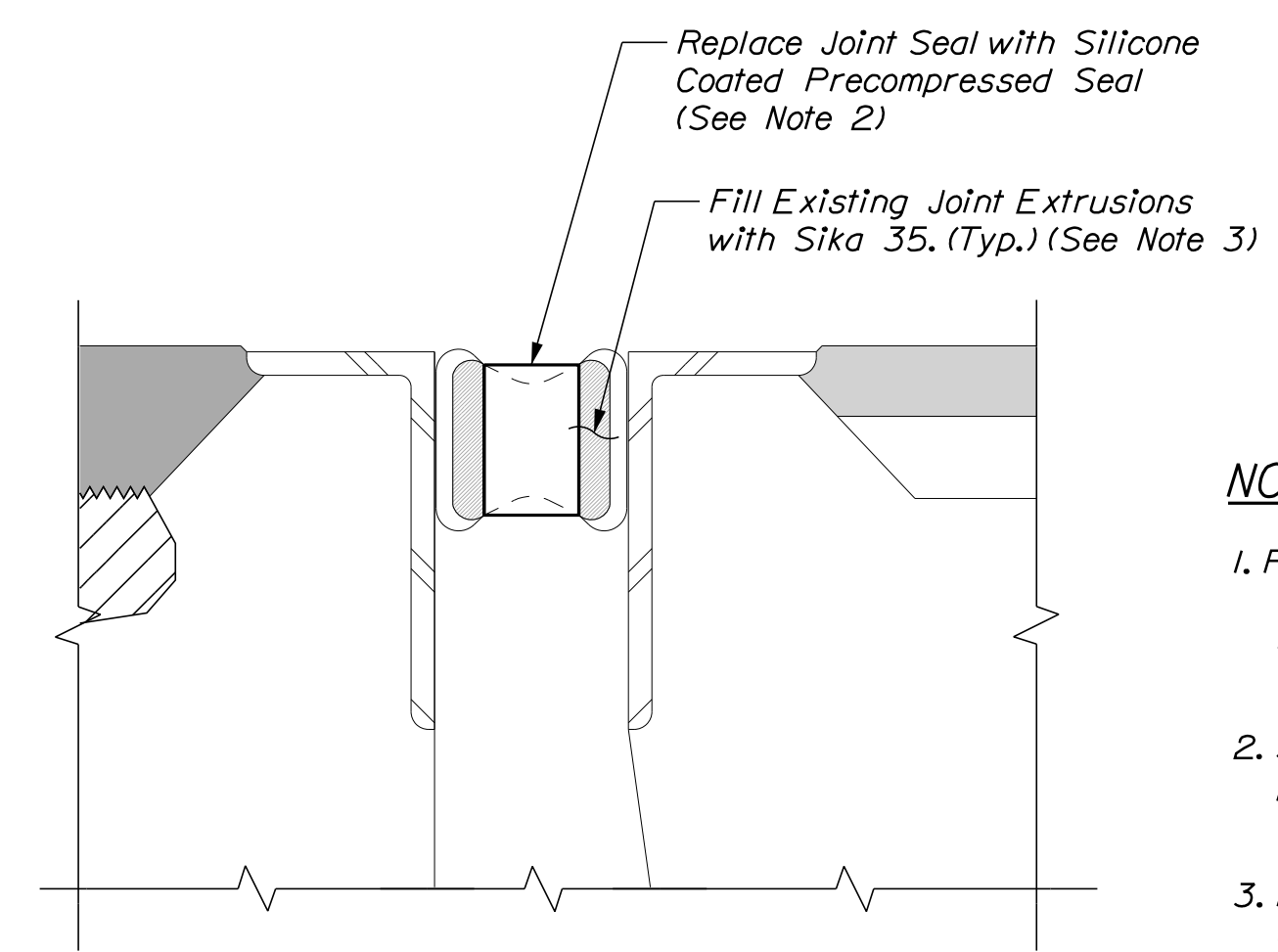


EXISTING EXPANSION JOINT SECTION



PROPOSED EXPANSION JOINT SECTION

SECTIONS AT EXPANSION JOINT AT ABUTMENT 1
Not to Scale



JOINT DETAIL


NOTES

1. 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. Silicone Coated and Pre-Compressed Seal shall be paid under Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.
3. Filling existing joint extrusions with Sika 35 shall be incidental to Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.
4. 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.

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

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THE GOLD STAR MEMORIAL HIGHWAY

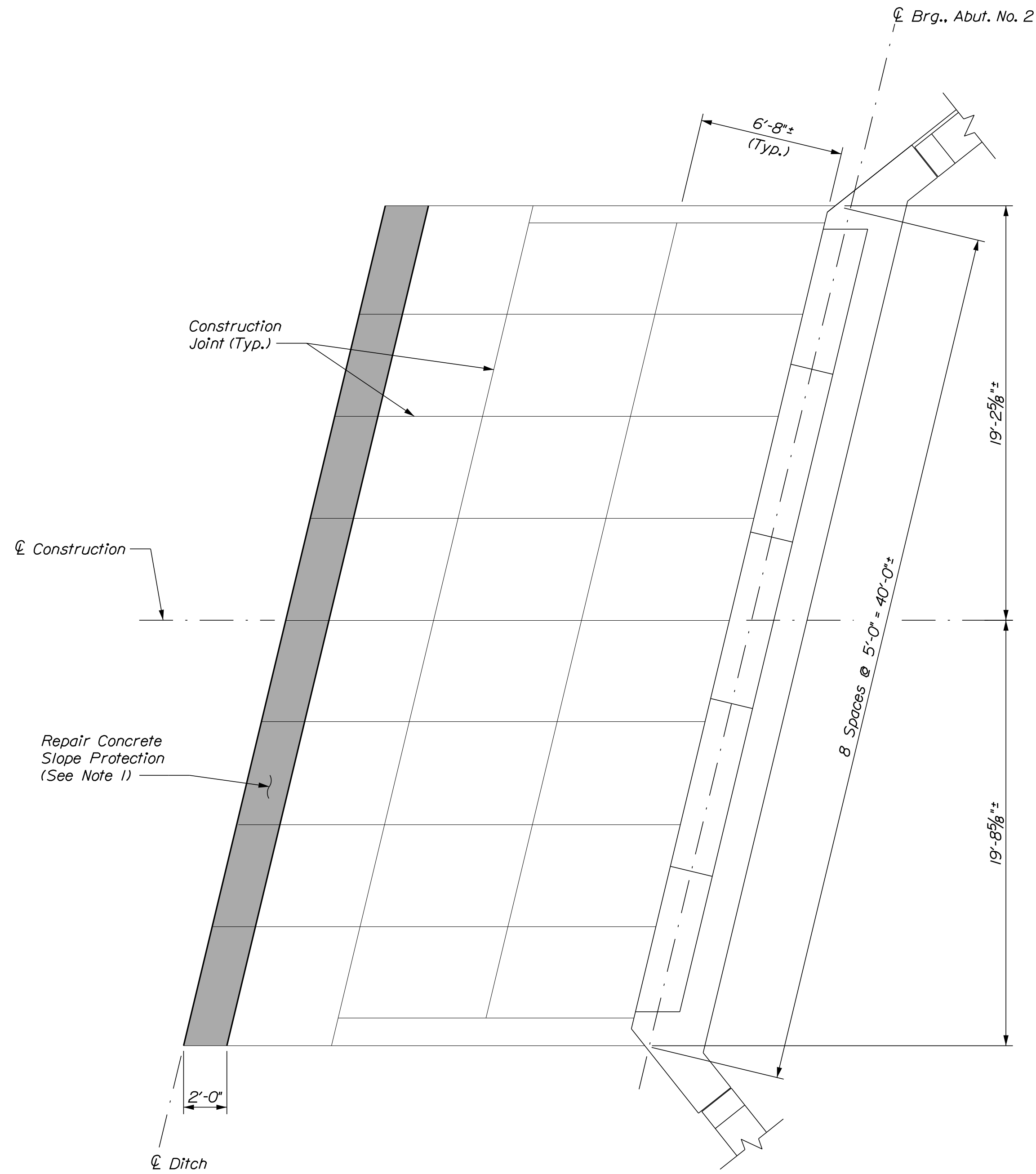
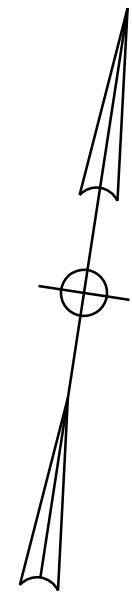
MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
BRIDGE JOINT MODIFICATIONS

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: **37**
37 OF 38

Date: 4/29/2022

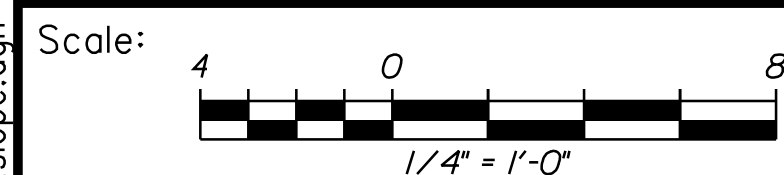


ABUTMENT NO. 2
Scale: 1/4" = 1'-0"

NOTE

1. The bottom slope protection panel shall be sawcut 2'-0" from existing ground and replaced in-kind as directed by the Resident. Class A Concrete shall be used for replacing concrete slope protection. This work shall be paid for under Item 518.921 Slope Protection Concrete Repairs.

Filename: ...038_slope.dgn

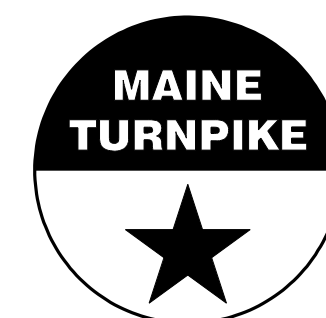


No.	Revision	By	Date

Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.12
LITTLEFIELD ROAD UNDERPASS
AT MM 17.3 IN WELLS, ME
SLOPE PROTECTION REPAIRS

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	4/29/22	Checked	GME	4/29/22
Drawn	DPD	4/29/22	In Charge of	TSB	4/29/22

VHB: 55345.00
CONTRACT: 2022.12

SHEET NUMBER: **38**
38 OF 38

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