

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

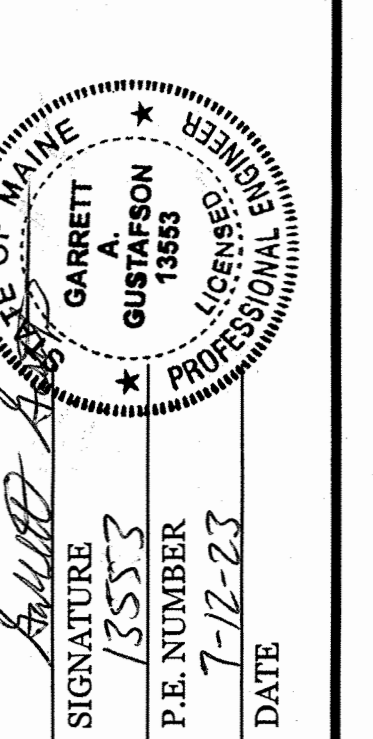


GARDINER-RANDOLPH KENNEBEC COUNTY PEARL HARBOR REMEMBRANCE BRIDGE OVER KENNEBEC RIVER STATE ROUTES 9, 27 & 126 FEDERAL PROJECT NO. 2530100 PROJECT LENGTH 0.1990 mi. BRIDGE NO. 2304

LIST OF DRAWINGS

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>	<i>[Signature]</i>	7/2/23
CHIEF ENGINEER: <i>[Signature]</i>	<i>[Signature]</i>	7-18-2023



PROJECT INFORMATION	
PROGRAM	BRIDGE
PROJECT MANAGER	DEVAN EATON
DESIGNER	CASEY VANDEBOSCH
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

PEARL HARBOR REMEMBRANCE BRIDGE
KENNEBEC RIVER
GARDINER/RANDOLPH KENNEBEC COUNTY

SHEET NUMBER
1
OF 5

2530100 WIN 025301.00

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

TRAFFIC DATA

Current (2021) AADT	9,390 WB/9350 EB
Future (2033) AADT	9,950 WB/9910 EB
DHV - % of AADT	11
Design Hour Volume	1136 WB/1132 EB
Heavy Trucks (% of AADT)	5
Heavy Trucks (% of DHV)	3
Directional Distribution (% of DHV)	100
18 kip Equivalent P 2.0	225
18 kip Equivalent P 2.5	215
Design Speed (mph)	25

UTILITIES

Charter Communications	Maine DOT Railroad
Consolidated Communications	Town of Randolph
Gardiner Water District	City of Gardiner
Summit Natural Gas	

MAINTENANCE OF TRAFFIC

Staged construction maintaining two lanes of west bound traffic across the structure at all times during construction, with east bound traffic detoured.

<u>PROJECT LOCATION</u>	Gardiner - Randolph, Pearl Harbor Remembrance Bridge Located 0.11 of a mile West of Route 126 Lat./Long. 44°13'60" N 69°46'12" W
<u>PROGRAM AREA</u>	Highway Bridge Traditional
<u>OUTLINE OF WORK</u>	Bridge wearing surface replacement

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	6,760	SY
403.2084	12.5 MM HIGHLY MOD ASPH PAVEMENT (HIMAP)	745	T
409.15	BITUMINOUS TACK COAT - APPLIED	338	G
502.701	BRIDGE DRAIN GRATE MODIFICATION	10	EA
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	(6375 SY)	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES	(100 SY)	LS
518.391	REP GRAN CURB JOINT AND BED MORTAR	100	LF
518.50	REPAIR OF UPWARD FAC SURF - TO RE STEEL	2,000	SF
518.51	REPAIR OF UPWARD FAC SURF-BELOW RE STEEL	1,000	SF
520.242	BRIDGE JOINT MODIFICATION TYPE 2	1	EA
526.301	PORTABLE CONCRETE BARRIER TYPE 1	(990 LF)	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
627.733	4" WHITE OR YELLOW PAINTED PAVE MRK LINE	5,000	LF
627.77	REMOVING PAVEMENT MARKINGS	100	SF
627.78	TEMP 4" PAINT PVMT MARK LINE W OR Y	1,000	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.10	AIR COMPRESSOR (INC OPERATOR)	40	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	40	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	40	HR
631.21	ROAD BROOM (INC OPER & HAULER)	40	HR
637.071	DUST CONTROL	1	LS
639.21	FIELD OFFICE - TYPE D	1	EA
643.71	TRAFFIC SIGNAL MODIFICATION - GARDINER END OF BRIDGE	1	LS
643.71	TRAFFIC SIGNAL MODIFICATION - RANDOLPH END OF BRIDGE	1	LS
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	1,500	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	40	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	12	EA
656.75	TEMP SOIL EROSION & WATER POLLUTION CTRL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:
 - All exposed surfaces of concrete curbs and sidewalks.
 - All exposed surfaces of Concrete Transition Barriers.
 - Top of Concrete headers for Bridge joint(s).
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
- The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.
- The bridge deck evaluation report of the existing bridge may be accessed at the MaineDOT web address. The report contains visual inspection information and deck core data of the bridge. There is no assurance that the information or data is a true representation of the conditions of the entire deck.
- Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
 - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.
- Drill holes in the existing drains in accordance with Standard Details 502(16) through 502(21). This work will be considered incidental to related Contract items. No separate payment will be made.
- The Contractor shall install drains in accordance with Standard Detail 502(04) and Standard Specifications Subsection 502.16. This work will be considered incidental to related Contract items. No separate payment will be made.

DECK REPAIR NOTES

- Contractor shall repair areas of concrete deck and/or concrete sidewalk deterioration as directed by the Resident. Locations of deck and/or concrete sidewalk repairs are undetermined for this contract. The Resident will identify and mark areas for deck repair after removing the wearing surface. Payment for the deck and sidewalk repair work shall be under the appropriate 518 pay item.
- If the depth of deteriorated concrete extends to the reinforcing steel, remove concrete to a minimum of 1" below the reinforcing steel.
- Concrete repairs shall be made with Class A for the deck repairs, and LP Concrete for the sidewalk repairs.

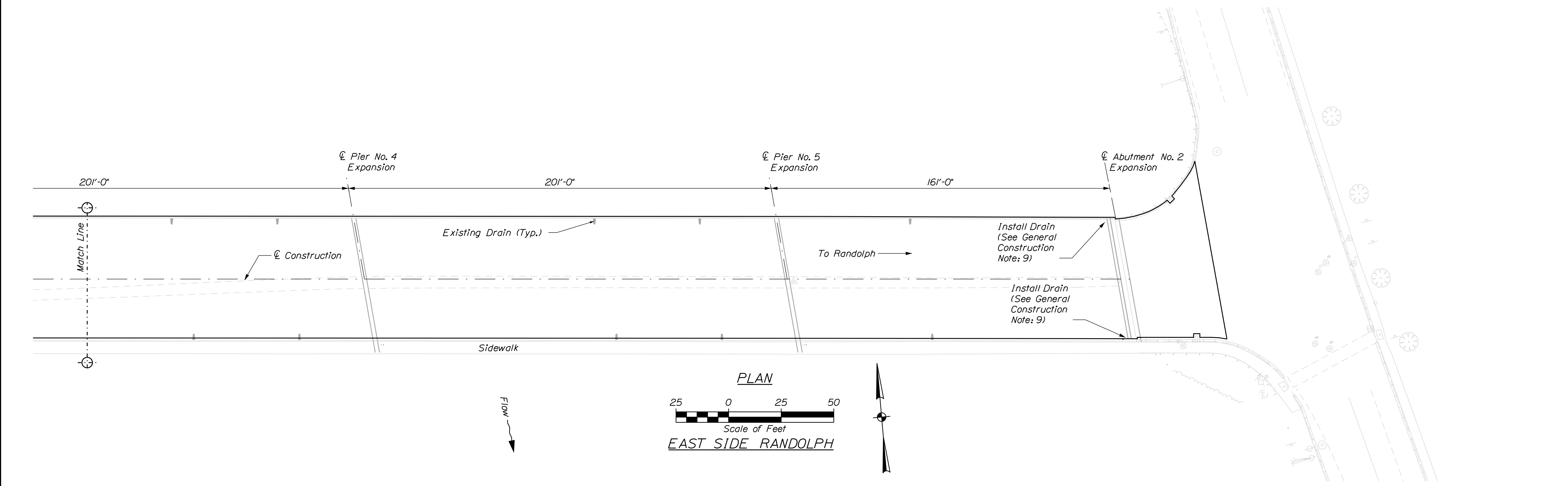
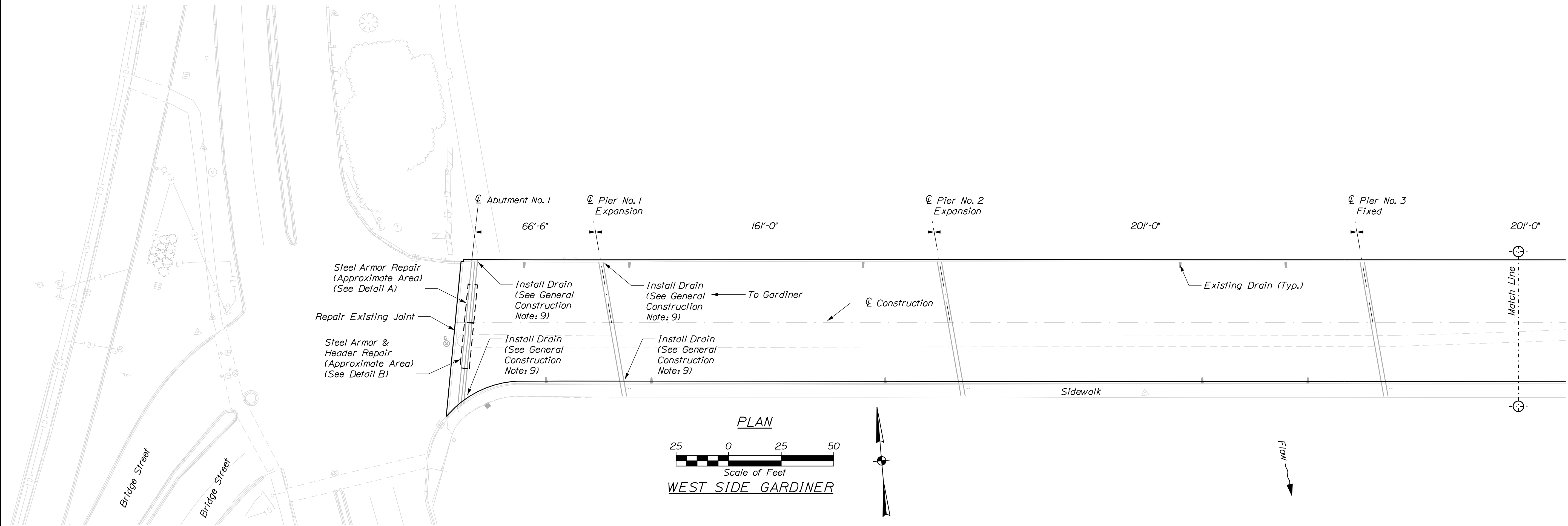
JOINT MODIFICATION NOTES

- The Contractor shall modify existing joint in accordance with the applicable Special Provisions and Details.
- Compression seals indicated to be replaced shall extend the full width of the bridge plus a distance of 4" beyond the outside face of the curb on each side of the bridge.
- When a new joint is being installed, or an existing joint is being substantially modified and field conditions permit, the approach side of the joint shall be set 1/8" to 1/4" higher than the departure side of the joint. Under no circumstances shall the departing side of the joint be higher than the approach side of the joint.
- The Contractor shall clean all bridge joints and deck drains as directed by the Resident. Cleaning joints and deck drains shall be considered incidental to the Contract.

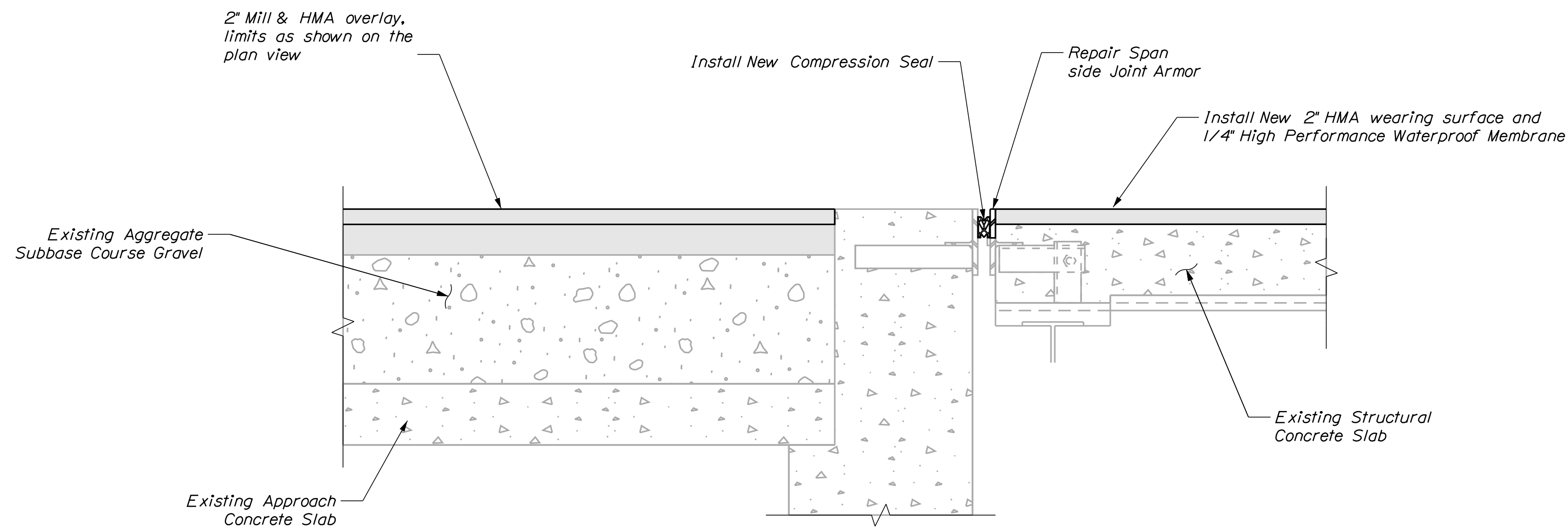
GRANITE CURBING NOTE

- The Contractor shall repair missing or damaged granite curb bedding mortar as directed by the Resident. The cost for this work shall be paid for under Item No. 518.391, Repair Granite Curb Bedding Mortar. Mortar for bedding and for joints in the granite curb shall contain an approved non-shrink additive.

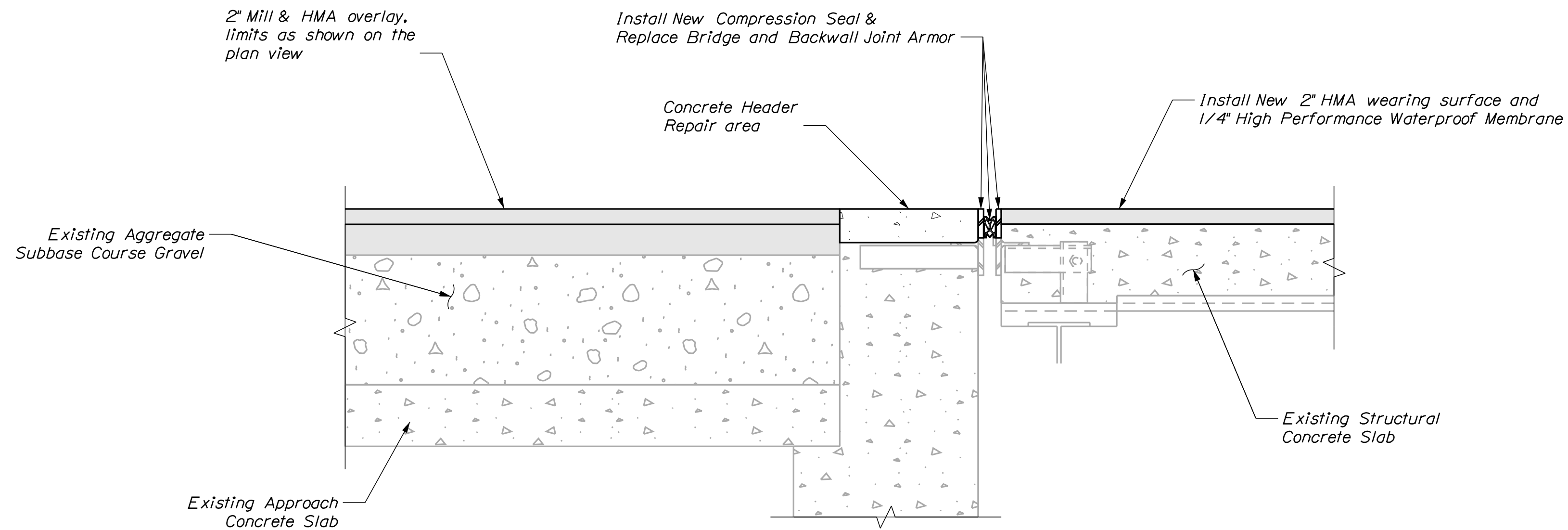
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2530100 WIN 025301.00 BRIDGE NO. 2304 BRIDGE PLANS	PEARL HARBOR REMEMBRANCE BRIDGE KENNEBEC RIVER GARDINER-RANDOLPH KENNEBEC COUNTY ESTIMATED QUANTITIES & PROJECT NOTES
SHEET NUMBER 2 OF 5	DATE: JUN 2023 BY: M. CRITCHLOW CHECKED: J. DEAN DESIGNED: J. DEAN REVISIONS: 1, 2, 3, 4 FIELD CHANGES:



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2530100		WIN		025301.00		BRIDGE NO. 2304		BRIDGE PLANS	
PEARL HARBOR REMEMBRANCE BRIDGE		KENNEBEC RIVER		GARDINER-RANDOLPH KENNEBEC COUNTY		GENERAL PLAN		SHEET NUMBER		3		OF 5	
PROJ. MANAGER	DEVAN EATON	DESIGN-DETAILED	CVOB	CHECKED-REVIEWED	MCRITCHLOW	DESIGN-DETAILED	GUSTAFSON	DESIGN-DETAILED	DELEON	REVISIONS 1		REVISIONS 2	
DATE	JUN 2023	DATE	JUN 2023	DATE	JUL 2023	DATE	JUL 2023	DATE		DATE		DATE	
BY	MCRITCHLOW	BY	DELEON	BY		BY		BY		BY		BY	
FIELD CHANGES													



**ABUTMENT No. 1
STEEL ARMOR REPAIR**
(Detail A)



**ABUTMENT No. 1
STEEL ARMOR & HEADER REPAIR**
(Detail B)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2530100
WIN 025301.00
BRIDGE NO. 2304
BRIDGE PLANS

DESIGNED BY: M. CRITCHLOW
CHECKED BY: M. CRITCHLOW
DATE: JUN 2023
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

PROJ. MANAGER	DEVAN EATON	BY	DATE
DESIGN-DETAILED	DEVAN EATON	M. CRITCHLOW	JUN 2023
CHECKED-REVIEWED	DEVAN EATON	M. CRITCHLOW	JUN 2023
DESIGN-DETAILED	DEVAN EATON	M. CRITCHLOW	JUN 2023
DESIGN-DETAILED	DEVAN EATON	M. CRITCHLOW	JUN 2023
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PEARL HARBOR REMEMBRANCE BRIDGE
KENNEBEC RIVER
GARDINER-RANDOLPH KENNEBEC COUNTY
BRIDGE JOINT MODIFICATION DETAILS

SHEET NUMBER

5

OF 5