David W. Fish, P.E. Managing Engineer, Bridge Engineering Rhode Island Department of Transportation

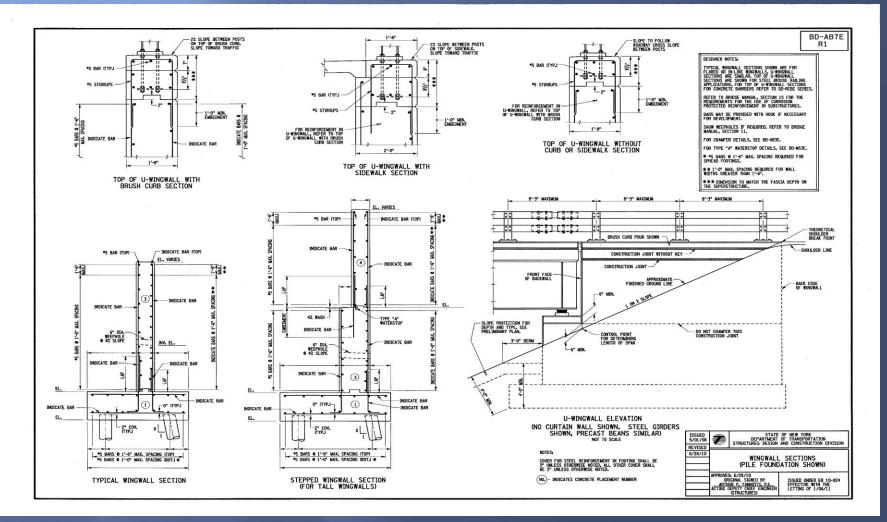
Thomas H. Pechillo, Jr., P.E. Regional Manager COLLINS ENGINGINEERING, Inc.

> Kevin Viveiros, P.E. Vice President PARE CORPORATION

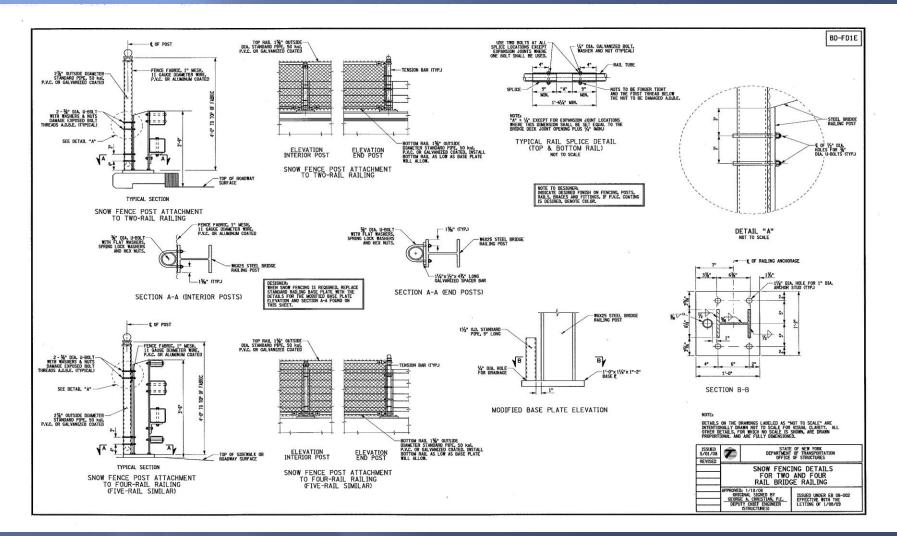
PROJECT APPROACH

REVIEW STATE STANDARD DETAIL DRAWINGS PREPARE LONGEVITY SURVEY

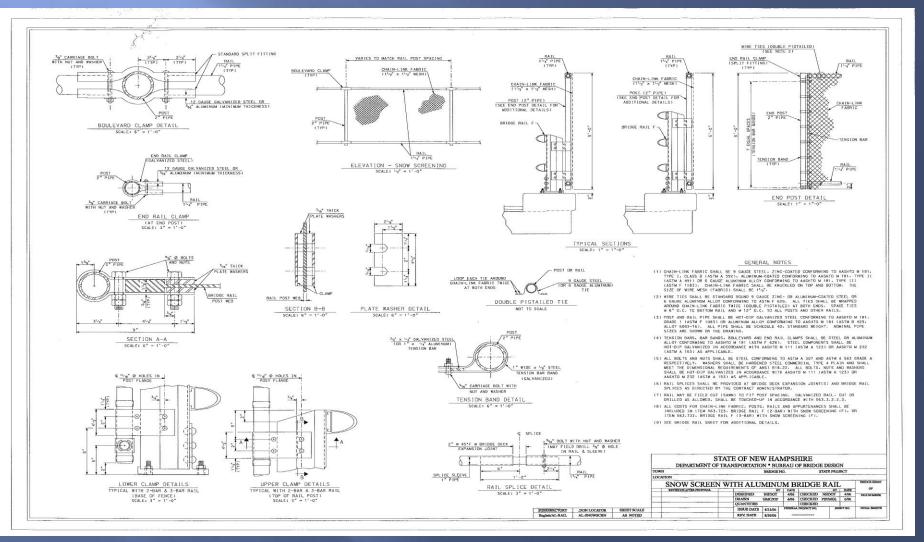
Berm @ Bearing Area for Inspection - NY



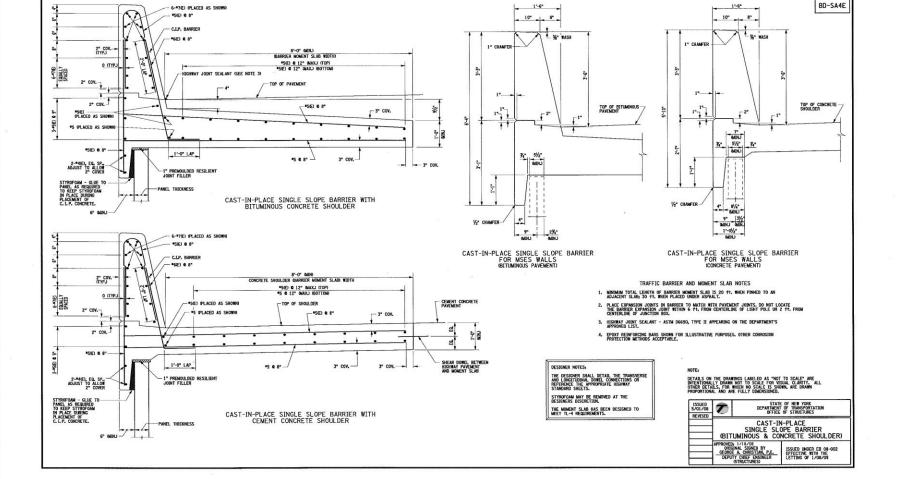
Snow Fence - NY



Snow Fence - NH



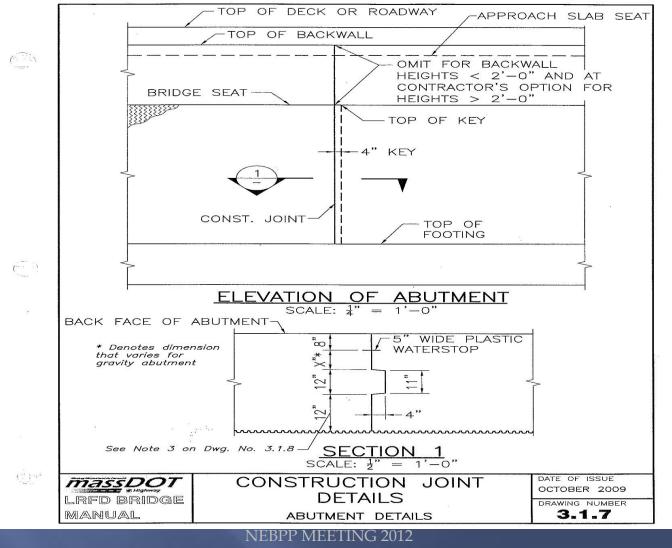
NEBPP MEETING 2012 Newport, Rhode Island



BARRIER OVER MSE WALL DETAIL - NY

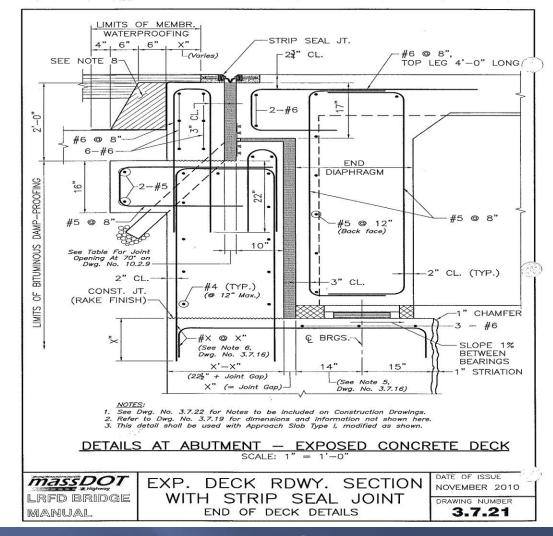
PRESERVATION FRIENDLY DESIGN

WATER STOP DETAIL - MA



Newport, Rhode Island

BACKWALL DRAIN - MA



Please indicate the types of membrane that your state typically incorporates on new or
replacement bridge decks.

New Decks:

Spray-on

Sheet

2.

Other (please indicate type):

Replacement Decks:

Spray-on

Sheet

Other (please indicate type):

- Does your state utilize standard details for treatments of membrane at the gutterlines?
 Yes No
- Does your state typically utilize deck weepholes?
 Yes
 No
- Does your state typically utilize stay-in-place forms?
 Yes No

If so, are the flutes filled with Styrofoam to reduce weight? Yes No

AASHTO TSP-2 Northeast Bridge Preservation Partnership Design for Bridge Preservation Subcommittee David Fish, P.E. – Chair State Agency Survey on Detailing Practices for Longevity July 23, 2012

 Please indicate the types of overlays that your state typically incorporates on new or replacement bridge decks.

New Decks:

Standard bituminous	Thickness =	
Superpave	Thickness =	
Latex modified concrete	Thickness =	,,
Ероху	Thickness =	
Other (please indicate type	e and thickness):	

Replacement Decks:

Standard bituminous	Thickness =	"
Superpave	Thickness =	,
Latex modified concrete	Thickness =	
Epoxy	Thickness =	
Other (please indicate type	and thickness):	

		(if stainless steel is u	ised, please ind	icate grade):					
	Bottom Mat:	Black	Cover =	"	6.		e the types of reinforci	ng and associated cover that y	our state uses in its
		Epoxy-coated	Cover =	»		bridge decks.	24		
		Galvanized	Cover =	"		New Decks:			
		Stainless steel clad	Cover =			Top Mat:	Black	Cover ="	
		MMFX	Cover =	**		1	Epoxy-coated	Cover ="	
		Stainless Steel	Cover =				Galvanized	Cover ="	
		(if stainless steel is u	ised, please ind	icate grade):			Stainless steel clad	Cover = "	
6	· · ·						MMFX	Cover = "	
7.	Please indicat parapets:	e whether your state t	ypically uses so	ealant on its bridge decks and/or			Stainless Steel	Cover = "	
								sed, please indicate grade):	
	Bridge Decks	Yes	No	If yes, type:		Bottom Mat:		Cover = "	
	Parapets:	Yes	No	If yes, type:		Dottoini Mat.	Epoxy-coated	Cover ="	
	35						Galvanized	Cover = "	
8.	Please indicat expansion:	e your state's preferre	d expansion jo	int type for various ranges of thermal			Stainless steel clad	Cover = "	
	Range 1	" to "	Joint Type:				MMFX	Cover = "	
	Range 2	" to "	Joint Type:				Stainless Steel	Cover = "	
	Range 3	" to "	Joint Type:					1997-0. 0.0 10 10 10 10 10 10 10 10 10 10 10 10 10	
	Range 4	" to"	Joint Type:	ζ.		D 1		sed, please indicate grade):	
		Barren and Barren Barren				Replacement		c "	
9.	Does vour sta	te routinely utilize int	egral abutment	bridges?		Top Mat:	Black	Cover ="	
	Yes	No					Epoxy-coated	Cover ="	
			orreble or or or	feet and skew = degrees.			Galvanized	Cover ="	
	ii yes, piease	indicate maximum an	owable span =	feet and skew = degrees.			Stainless steel clad	Cover ="	20
	-						MMFX	Cover ="	
10.	Does your sta	te routinely utilize "sl	ab over backwa	all" or similar types of details?			Stainless Steel	Cover ="	

Bottom Mat:	Black	Cover =	"
	Epoxy-coated	Cover =	
	Galvanized	Cover =	
	Stainless steel clad	Cover =	"
	MMFX	Cover =	"
	Stainless Steel	Cover =	"

(if stainless steel is used, please indicate grade):

 For concrete substructures, please indicate what your state typically uses for treatments: Bridge Seat:

Top cover: ____"

Reinforcing type: Black Epoxy Coated Other

Front face of abutment stems in splash/salt zone:

Cover: ____"

Reinforcing type: Black Epoxy Coated Other

Front face of abutment stems outside splash/salt zone:

Cover: ____"

Reinforcing type: Black Epoxy Coated Other

Pier columns/walls in splash/salt zone:

Cover: "

Reinforcing type: Black Epoxy Coated Other

Pier columns/walls outside splash/salt zone:

Cover: ____"

Reinforcing type: Black Epoxy Coated Other

	Yes If yes, please	No indicate maximum allo	wable span =	feet and ske	w=	_ degrees			
11.	For steel superstructures, please indicate how often your state utilizes the following types of protection:								
	Painted Steel:	Nearly Alway	s Frequently	Occasionally	Rarely	Never			
	Weathering S	teel: Nearly Alway	vs Frequently	Occasionally	Rarely	Never			
	Galvanized S	teel: Nearly Alway	vs Frequently	Occasionally	Rarely	Never			
	Other:	Nearly Alway	vs Frequently	Occasionally	Rarely	Never			
	If other, please indicate type:								
	If your state uses weathering steel, please indicate if you provide the following:								
	Painted Girder Ends								
	Drip Bars at low end(s) of girders								
12.	 For concrete superstructures, please indicate the types of reinforcing and associated co that your state uses. 								
Top Mat: Black Cover ="				33					
		Epoxy-coated	Cover =	7 7					
		Galvanized	Cover =	"					
		Stainless steel clad	Cover =	»					
MMFX Cover ="									

Cover =

(if stainless steel is used, please indicate grade):

Stainless Steel

14. Please indicate the type of scour protection your state typically uses:

Abutments on piles:	Rip-rap	Articulated Concrete Block	Other
Abutments on spread footings:	Rip-rap	Articulated Concrete Block	Other
Piers on piles:	Rip-rap	Articulated Concrete Block	Other
Piers on spread footings:	Rip-rap	Articulated Concrete Block	Other

15. Please indicate if your state routinely uses other types of preservation-friendly design details, and if so, briefly explain: