

# BRIDGE NO.01211

52980 - NEWTOWN INTERSTATE-84 WB over HANOVER ROAD

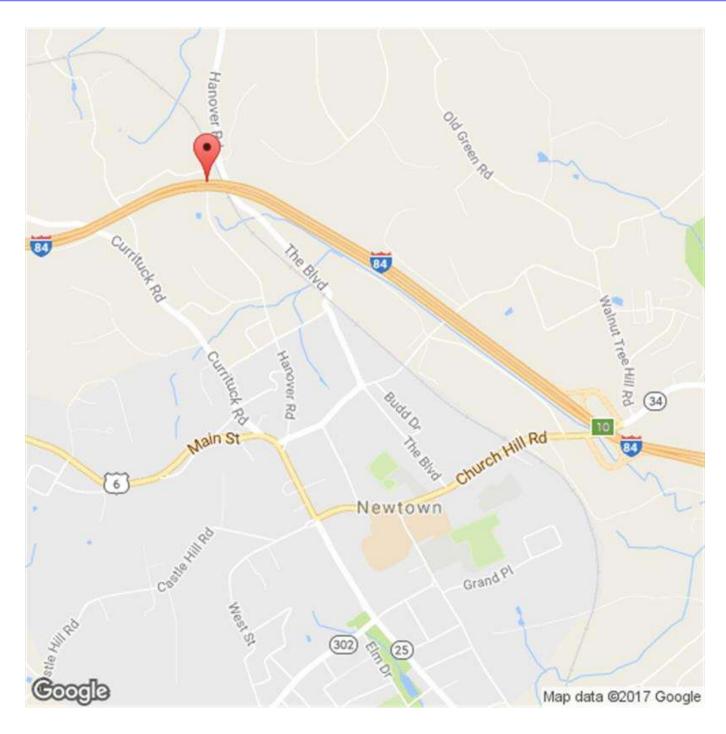
In-Depth and Routine Inspection 11/16/2016 Inspected by: Team 6



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Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Location Map # 1 I-84 W/B, over hanover road - Newtown.

Location 1.6 miles west of SR- 816.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS

## **STRUCTURE INVENTORY & APPRAISAL**

INSPECTION	STRUCTURE TYPE & MATERIALS
Structurally Deficient N Functionally Obsolete Y	(43) Structure Type, Main
Sufficiency Rating 88.1	A) Material 3 - Steel
(90) Inspection Date 11/16/2016 (91) Frequency 24	B) Design Type 02 - Stringer/Multi-beam or Girder
Indepth Insp Yes Proposed next Indepth Year	(44) Structure Type, Approach
Deck Survey Date Class 01	A) Material 0 - Other
Access 0 - None Flagman 3	B) Design Type 00 - Other
Frequency Date Type	(45) Number of Spans, Main Unit 3
Fracture	(46) Number of Approach Spans 0
Underwater	(107) Deck Structure Type 1 - Concrete Cast-in-Place
Special	(108) Wearing Surface/Protection Systems
IDENTIFICATION	A) Type of Wearing Surface 6 - Bituminous
Bridge Name 01211	B) Type of Membrane 2 - Preformed Fabric
Town Code - Name 52980 - NEWTOWN	
(5) Inventory Route	C) Type of Deck Protection 1 - Epoxy Coated Reinforcing
(A) Record Type 1: Route carried "on" the structure	Substructure
(B) Signing Prefix 1 - INTERSTATE HIGHWAY	A) Material 2 - CONCRETE
(C) Level of Service 1 - MAINLINE	B) Design Type 2 - STUB ABUTMENT
(D) Route Number. 00084	Paint
(E) Dir Suffix 4 - WEST	Туре
(6A) Featured Intersected HANOVER ROAD	Year
(6B) Critical Facility Indicator	Comment
(7) Facility Carried INTERSTATE-84 WB	GEOMETRIC DATA
(9) Location 1.6 MI WEST OF SR 816	(48) Length of Maximum Span 51 ft.
(11) Mile Post 13.57 Miles	(49) Structure Length 138 ft.
(16) Latitude 41 Deg. 25 Min. 46.18 Sec.	(50) Curb or Sidewalk Widths
(17) Longitude -73 Deg. 18 Min. 56.54 Sec.	A) Left 0 ft. 0 in. B) Right 0 ft. 0 in.
(98) Border Bridge	(51) Bridge Roadway Width Curb to Curb 53 ft. 0 in.
(A) State Code (B) Percent Responsibility %	(52) Deck Width, Out to Out 56 ft. 9 in.
(C) Border Town Name	(32) Approach Roadway Width 53 ft.
(99) Border Bridge Structure No.	

## Form: BRI-19, Rev. 2/15 Inspection type: In-Depth,Routine Inspection Date: 11/16/2016 Inspected by: Team 6

(33) Bridge Median	0 - No median	AGE AND SERVICE	
Deck Area 7838	sq. ft.	Year Built 1962 (106) Year Reconstructed 199	91
(34) Skew Angle	deg.	(42) Type of Service	
(35) Structure Flared 0 - No		A) On 1 - Highway	
(10) Inv. Rte. Min. Vert. Clearance	99 ft. 99 in.	B) Under 1 - Highway, with or w/out pedestrian	
(47) Inv. Rte. Total Horiz. Clr.	53 ft. 0 in.	(28) Number of Lanes	
Log Inv. Rte. Total Horiz. Clr.	53 ft. 0 in.	A) On 03 B) Under 2	
RLog Inv. Rte. Total Horiz. Clr.	0 ft. 0 in.	(29) Average Daily Traffic 39900	
(53) Min. Vert. Clearence Over Brid		Is Above Half ADT? Yes	
(54) Log-Min. Vert. Underclearance		(109) Precent Truck 9%	
(55) Min. Lat Underclearance on Ri		(30) Years of ADT 2015	
(56) Min. Lat Underclearance on Le	ft 0ft. 0in.	(19) Bypass, Detour Length 1 Miles	
CONDI	ΓΙΟΝ	APPRAISALS	
(58) Deck	7	(67) Structural Evaluation 6	
(59) Superstructure	6	(68) Deck Geometry 6	
(60) Substructure	7	(69) Underclearances, Vert. & Horiz. 3	
(61) Channel & Channel Protection	s N	(71) Waterway Adequacy N	
(62) Culverts	Ν	(72) Approach Roadway Alignment 8	
(36) Traffic Safety Features		(113) Scour Critical N	
A) Bridge Railings	0	<u>COMMENTS</u>	
B) Transitions	0		
C) Approach Guardrail	0		
D) Approach Guardrail E	nds 1		
WATE	RWAY	CLASSIFICATION	
Drainage Basin Waterway		(112) NBIS Bridge Length Yes	
(38) Navigation Control	N - Not applicable, no waterway	(104) Highway System 1 - Structure/Route is on NHS	
(39) Navigation Vertical Clearance	0 ft.	(26) Functional Class 11 - Urban - Principal Arterial - Inter	rstate
(40) Navigation Horiz. Clr.	0 ft.	(100) Defense Highway 1 - Is on an Interstate STRAHNET r	oute
(111) Pier/Abutment Navigation		(101) Parallel Structure L - Left structure (South or West)	
(116) Vert-Lift Brg Nav Min	ftIn.	(102) Direction of Traffic 1 - 1-way traffic	

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## Bridge No: 01211

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS

(103) Temporary Stru	icture							
(110) Designated Na Network	1 - Inventory route on National Truck Network							
(20) Toll	3 - On F	ree Ro	ad					
(21) Maintain		01 - Sta	te High	way	Agenc	у		
(22) Owner		01 - Sta	te High	way	Agenc	у		
Report Class		S - STA	TE					
(37) Historical Signific	cance	5 - Not e	eligible	for N	lationa	l Regi	ster	
	— РС	STED	SIGNS	; –				
Other Posted Sign 1						]		
Other Posted Sign 2						]		
			Actual		Reco	mend	ed	
Posted Load Single I	Jnit Tru	ck					]	tons
Posted Load Semi-T	railer Tr	uck					]	tons
Posted Load 4 Axle	Fruck						]	tons
Posted Load 3S2 Truck							]	tons
All Vehicles						]	tons	
Posted Vert. Clearan	ce on B	ridge		ft.		]in.		
Posted Vert. Undercl	earance	Э		ft.		]in.		
Posted Speed Limit	on Bridg	je		]m.p	o.h.			
	- отн	ER FEA	TURE	S -				
Fence Required	No							
Fence Present	No							
Fence Type								
Fence Height	0							
Fence Material								
Fence Top Type								
Barrel Ladders	No							
Stand Pipes	No							
Catwalks	No							
Moveable Inspection	System		No					
Haunches Present ov	er Roa	dway						
Utilities	N   No	Utilities	present	t				

#### — PROPOSED IMPROVEMENTS —

(75A) Type of Work Proposed	
(75B) Work Done By	
(76) Length of Structure Improvement	ft.
(94) Bridge Improvement Cost	\$
(95) Roadway Improvement Cost	\$
(96) Total Project Cost	\$
(97) Year of Improvement Estimate	
(114) Future ADT	56909
(115) Year of Future ADT	2031
DOT Bridge Program List No	
Project No	
Advertised Date	

#### - LOAD RATING & POSTING -

(31) Design Load	5 - HS 20
(63) Operating Rating Type	1 - Load Factor (LF)
(64) Operating Rating	93.2
(65) Inventory Rating Type	1 - Load Factor (LF)
(66) Inventory Rating	55.9
Evaluation Code	L - Load Factor
Year of Evaluation	2001
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Status	A - Open

#### **INSPECTOR'S SIGNATURES:**

1)	John Class	Date: 01/06/2017	P.E. SIGNATURE:			Date:
2)	Patick A. Sharenon	Date: 01/09/2017	P.E. # – Reviewed By: –			  Date: 01/23/2017
3)		Date:		har )	maple	
4)		Date:				

		FI	ELD INSF	ECTIO	ON REP	ORT		
Location:	1.6 MI WEST O	F SR 816	Year Built:	1962		Snoop	er Required:	
Main Material:	3 - Steel		Year Rebuilt	1991			er Used:	$\Box$
Main Design:	02 - Stringer/Mu	Ilti-beam or				·		
Inspectors:					<u>Visits:</u>	_		
Lead Inspector			Chavez		Visit Date: 11/16/2016	Temp:		End Time:
Inspector:		Task:			11/16/2016	50	09:45 AM	02:15 PM
Sharron, Patric	.к	D9E -	Inspector					
58. DECK:								
Re	inforced concrete	deck.						Overall Rating: 7
	Rating							
	Overlay: 8	Bituminous co	oncrete / membra	ane :				
			nibits two bitumir 1" X 1" deep) in		one adjacen	t to joint #	≠3 (2' X 8" X	1" deep) & one adjacent to
			elation test areas	in span 2	•			
Deck - S	Str. Condition: 7	Deck undersid	le :					
		Random trans	verse cracks wit	h and with	out effloresce	ence.		
		Map cracking.						
		Areas of shrin	kage cracks.					
		Deterioration	2.3%					
	Curbs: 7	Sloped granite	· ·					
		Shows scrape	e marks.					
		Curb reveal :						
		North side 1"	span 3.					
		South side 1".						
	Median: N							
	Sidewalks: N							
	Parapet: 7	Parapets :						
		Exhibits vertic	al hairline cracks	s and scat	tered small po	op outs.		
		A few scrape	marks.					
			parapets at nor X 1"deep & nort					ep & southeast corner a
		Light scaling a	at north parapet,	also a sp	all 6" X 2" X 1	" deep a	djacent to to	pier 1.

Railing: 7	Single aluminum extruded rail :
	A few scrape marks.
Paint: N	
Fence: N	
Drains: 7	P.V.C weep pipe drains :
	One broken drain pipe at northeast corner in span # 3.
	One drain pipe at northwest corner outside cheekwall has no extension.
	Not discharging on to the superstructure.
Lighting Standard: N	
Overall Utility Condition Rating	
Utility Type/Size	
N   No U	tilities present
Construction Joints: N	
Expansion Joint: 6	Asphaltic Plug Joints :
	Joint over pier # 1 shows adjacent pot hole on span 2 side.
	Joint over pier # 2 shows Three large depression.
	Right lane adjacent to double skip line, one depression 1' X 2' & adjacent pot hole closed to white shoulder line.
	Middle lane adjacent to double skip line, one depression 2' X 2' with a 4" diameter pot hole.
	Middle lane adjacent to single skip line, one depression 2' X 2' with 1' diameter pot hole.
Haunches Present over travelwa	ay?

## APPROACH CONDITION:

Overall Rating: 8

Rating	
Approach Slab: 8	Based on the pavement.
Relief Joints: N	
Approach Guide Rail: 6	M.B.R. :
	Northwest corner has two sections that are bent & southwest corner has one dented section. southwest corner at the attachment to the parapet has heavy rust. Jersey barrier : Northeast & southeast corners shows a few scrape marks.

Form: BRI-18, Rev. 1/14 Inspection type: In-Depth,Routine Inspection Date: 11/16/2016 Inspected by: Team 6

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nspected by: Team 6	Inventory Rou	Ite: NHS			
	Small surface spalls with exposed rusted re-bar on the south side.				
Approach Pavement: 8	Bituminous concrete pavement :				
Approach Embankment: 7	Steep embankments with vegetation.				
Trafic Safety F	eatures				
Bridge Railings: 0	Parapet not 42" high.				
Transitions: 0	No rub rail.				
Approach Guardrails: 0	Not RB-350.				
Approach Guardrail Ends: 1	Continous railing.				
59. SUPERSTRUCTURE:					
STeel rolled beams,	three spans with seven beams each.	Overall Rating: 6			
Rating					
Bearing Devices: 4	Steel plates :				
	Abutment # 1 & 2 are steel expansion bearings with steel keepers angles	ð.			
	Bearings are lubricated and show signs of movement.				
	Pier # 1,span # 1 are curved plate fixed bearings with impacted rust betw	een the plates.			
	Medium rust on the bearings.				
	Pier #1, span # 2 are steel expansion bearings without steel keepers.				
	The anchor bolts were cut and the holes were plated. There is impacted rust between the sole and sliding plate and medium rust on the bearings which causes a gap.				
	Also, some powdered rust between the bronze and masonry plate.				
	Show little signs of movement.				
	These bearings needs to be lubricated.				
	Pier # 1, spans 2 & 3 are curved plate fixed bearings with impacted rust b	between the plates.			
	Medium rust on the bearings.				
	Bearing # 7 are the worse condition with heavy rust.				
	The nut on bearing # 7, pier #2 span # 3 has rusted away.				
	Anchor nuts have severe rose budding and section loss.				
	All bearings on pier # 2 show heavy rust.				
	Note: there is concrete debris around most bearings at both pier caps that	at needs to be removed.			
	See photos.				
Stringers: 6	Rolled beams :				

8

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS

-	-
	Exhibits light to medium rust at flanges.
	There are isolated areas of heavy laminar rust at top of bottom flanges.
	There are numerous scrapes with heavy rust at webs of most beams.
	Beam # 7 on all spans have heavy rust with pockets of laminar rust at top & bottom flange at pier #2.
	There are isolated areas of section loss at beam ends near piers.
	There are roller marks on random webs.
	Span # 1, there are old utility brackets attached to the soffit of the beams near the pier.
	Beam # 5, span # 2 pier # 1 south side has 8 liner feet of laminar rust at bottom flange.
	Beam # 6 span # 2 , pier # 2 north side exhibits section loss on bottom flange, 9/16" remaining from original 7/8", 20" out from bearing stiffener .
	Beam # 7, span # 2 has an isolated area of section loss on the north side on the bottom flange taken at mid-span,Original,7/8", measured 3/4", N/C during the 2016 inspection.
	Beam # 7, pier # 2, span # 2, section loss measured on the bottom flange edges 2' from the center line of the bearing.
	South side, original 7/8", measured 5/16".
	North side, original 7/8", measured 5/16".
	Beam # 7, pier # 2, span # 2 there is a perforation at the base of the vertical bearing stiffener, 2" high X 1" wide has been repaired with welded plate see photo.
	Beam # 7, pier # 2, span # 2 has a perforation at the top & bottom of the web of beam end , 5" long X 2" high has beam repaired with welded plate, see photo.
	Beam # 7, pier # 2 repairs have been made to bottom of web on south & north sides with welded plates, see photos.
	Beam ends & bearings have not been clean & painted at both piers.
	At abutments bearings where clean & painted but beam ends where not.
	See attached sketch.
Girders: N	
Floor Beams: N	
Trusses - General: N	
Trusses - Portals: N	
Trusses - Bracing: 7	Diaphragms :
	Intermediate diaphragm # 1 in bay # 1 span # 1 appears to have bean welded at lower diaphragm stiffner connection then painted black.

Beam # 3, span # 1 the second intermediate diaphragm connection has a cracked weld 1 3/4" long at

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	the top flange weld.
	This crack is located at the North side, old condition.
Paint: 3	Greater than 50 % rust with pitting.
Rust: 5	See items above.
Machinery Movable Span: N	
Rivets & Bolts: 4	Severe rosebudding of anchor bolts and section loss to nuts on the fixed bearings.
Welds - Cracks: 7	See items above.
Timber Decay: N	
Concrete Cracking: N	
Collision Damage: 8	
Member Alignment: 7	Beam # 7, span # 2 is tipped 1- 9/16" in 2' feet.
	It appears to be as built condition after the deck was replaced, old condition.
	it appears to be as built condition after the deck was replaced, ou condition.
Deflection Under Load: N	
Vibration Under Load: N	
Stand Pipes: N	
Catwalks:	
Movable Inspection System:	
Barrel Ladders: N	
Are	e Barrel Ladders OSHA Compliant?

#### 60. SUBSTRUCTURE:

Reinforced concrete	e abutments.	Overall Rating: 7
Rating		
Abutments - Stem: 7	Abutments :	
	Abutment # 1:	
	There is a small surface spall under beams # 1 & 3.	
	Three vertical cracks.	
	Abutment # 2 :	
	There is a joint spall 12" X 6" X 1" at northeast corner.	
	Both stems have mud stains.	
	Northeast corner at cheekwall has a 1' X 1' hollow area on the west face.	
	Also, a 3' X 1' hollow area on the north face.	
	Note: there is no gap between the cheekwall and the underside of the para	pet.
Abutmanta Baakwalli 7	Deskuelle :	
Abutments - Backwall: 7	Backwalls :	
	Exhibits mud stains.	
	Backwall # 1 exhibits small surface spalls along the top edge & .	

	Also a large spall between beams # 5 & 6.
	Backwall # 2 has a 1' diameter spall with a horizontal crack behind beam # 5.
	Also small surface spalls between beams # 4 & 5.
	One large spall 19" X 11" X 2" deep between beams # 5& 6.
Abutments - Footings: N	
Abutments - Settlement: 8	
Abutments - Wingwalls: 7	Concrete-U-shaped.
Piers/Bents - Caps: 7	Pier # 1:
	Span # 2, pedestal # 2 has a 3" X 3" small surface spall on the east face.
	Pedestal # 3, has a large spall 13" X 4" X 1-1/2" deep on the east face.
	These are not affecting the bearing.
	Note: numerous repairs have been made to both pier caps.
	A few random vertical cracks.
	See attached sketches and photos.
Piers/Bents - Pile Bent: N	
Piers/Bents - Columns: 7	Numerous repairs have been made.
	A few random hollow areas, vertical cracks and small spalls.
	See attached sketches and photos
Diara/Danta - Factings, N	
Piers/Bents - Footings: N Piers/Bents - Settlement: 8	
	No issues with erosion
Concrete Crack - Spall: 6	See items above.
Steel Corrosion: N	
Paint: N	
Timber Decay: N	
Collision Damage: 8	
Debris: 5	Shows concrete debris several inches deep on both pier caps from joint installation.
	The debris needs to be removed.
	Photos.

61. CHANNEL AND CHANNEL PROTECTION:

Overall Rating: N

Overall Rating: N

N
N
•

#### 62. CULVERTS AND RETAINING WALLS:

Rating		
Barrel: N		
Concrete: N		
Steel: N		
Timber: N		
Headwall: N		
Cutoff Wall: N		
Debris: N		
Retaining Wall System: N		
Footing: N		

## LOAD POSTING:

Rating	
Single Unit (Tons):	
Semi Trailer (Tons):	
4 Axle (Tons):	
3S2 (Tons):	
All Vechicles:	
Advanced Warning:	
Warning At Bridge:	
Legibility:	
Visibility:	

#### VERTICAL CLEARANCE POSTING

Min. Vert Under C	learance:	23	Ft	8	In	Confirmed.
Posted Clearence Unde	er Bridge:		Ft		In	
Posted Clearence C	On Bridge:		Ft		In	
Advanced Warning:						
Warning At Bridge:						
Legibility:						
Visibility:						

#### NOTES / COMMENTS:

Character of Traffic: Light traffic.

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Additional Notes:

The debris on both pier caps needs to be removed.

The expansion bearings at pier 1, span two need to be lubricated.

Additional Comments:

Eng. Parviz Mirzaee present at job site.

National Bridge Elements Inspection type: In-Depth,Routine Inspection Date: 11/16/2016 Inspected by: Team 6

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	Mod.	7838	sq. ft.	7657	181	0	0
1120 - Efflorescence/Rust Staining		143		0	143	0	0
1130 - Cracking (RC and Other)		38		0	38	0	0
107 - Steel Open Girder/Beam	Mod.	958	ft.	288	670	0	0
1000 - Corrosion		670		0	670	0	0
205 - Reinforced Concrete Column	Mod.	8	each	5	3	0	0
1080 - Delamination/Spall/Patched Area		3		0	3	0	0
215 - Reinforced Concrete Abutment	Mod.	102	ft.	95	7	0	0
1080 - Delamination/Spall/Patched Area		4		0	4	0	0
1130 - Cracking (RC and Other)		3		0	3	0	0
234 - Reinforced Concrete Pier Cap	Mod.	98	ft.	92	6	0	0
1080 - Delamination/Spall/Patched Area		4		0	4	0	0
1130 - Cracking (RC and Other)		2		0	2	0	0
311 - Movable Bearing	Mod.	21	each	0	18	3	0
1000 - Corrosion		21		0	18	3	0
313 - Fixed Bearing	Mod.	21	each	14	7	0	0
1000 - Corrosion		7		0	7	0	0
330 - Metal Bridge Railing	Mod.	276	ft.	276	0	0	0
331 - Reinforced Concrete Bridge Railing	Mod.	285	ft.	279	6	0	0
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		5		0	5	0	0

#### Bridge # ... <u>1211</u> Date ... <u>11/16/2016</u> Prepared by ... <u>Team-6</u>

checked by ...

## CONCRETE DETERIORATION WORKSHEET

Form BRI-10 Rev 2001

				D	eteriora	tion By	Span - I	n Square	Feet		
						Span	Numbe	r			
Deterioration Type	Х	1	2	3					12		Total
Spalled and	Тор				5						0
Delaminated Areas	Bot.										0
Scale (Moderate to	Тор										0
Severe Only)	Bot.										0
Cracks: with Efflorescence (Use 6" width x length)	Bot.	42	13	33	-						88
<u>Cracks</u> : w/o Efflo.(Use 3"	Тор						2				0
width x Length)	Bot.	3	7	28							38
<u>Map Cracking</u> : w/Efflorescence (Use full Area)	Bot.	23	24	8							55
Map Cracking: w/o	Тор										0
Efflo.(Use 50% of Area)	Bot.										0
Honeycombed Areas: (only areas more than 1 1/2" deep)	Bot.										0
	Тор	0	0	0	0	0				 	0
Totals	Bot.	68	44	69	0	0					181
Span Area		3055.15	2472.54	2486.75						······	8014.44
% Spalled and Delaminated on top		0.0%	0.0%	0.0%	#DIV/0!	#DIV/0!					0.0%
% Deterioration on Bottom		2.2%	1.8%	2.8%	#DIV/0!	#DIV/0!					2.3%

Note: 1/

2/ 3/

		FIFI	D NO	TES	BRIDGE	BRIDGE NO: 01211			DATE :	11/16/2016
				11.5	Crew			SHEET		
				<u>SLIDING</u>	BEAR	ING M BRI - 14, R	<u>1EASU</u> ev 9/01	<u>REMENTS</u>		
		R1 R1 Lateral Misalign	1	Seat	Bean			le Plate ding Plate sonry Plate Comment On:	Span No. = Substructure Unit = Temperature = - Presence of kee done on bearing - Undermining of Attach sketch w	s. bearing.
	<u>F</u> ]	RONT VI			<u>S</u>	IDE VIE	W		- Cracking of pla - Condition of an	tes or welds
Brg	"L"	N "R"	Movement Mode Exp. or Contr.	Lateral Misalign.	Bearing Frozen?	Conditior Normal Mov't	Rust ? H/M/L		Comments	
1	7/8"	11/16"	E		N	Y	L			
2	1"1/16"	3/4"	E		N	Y	L		1: 1	
3	1"1/16	1"3/8"	С		N	Y	L			
4	1"3/16"	1"1/16"	N-exp.		N	Y	L			
5	1"1/2"	13/16"	C		N	Y	L	-	_	
6	1"13/16 "	1"3/16"	С		N	Y	L			
7	1"7/16"	13/16"	С		N	Y	L			
					e e					
	÷								_	

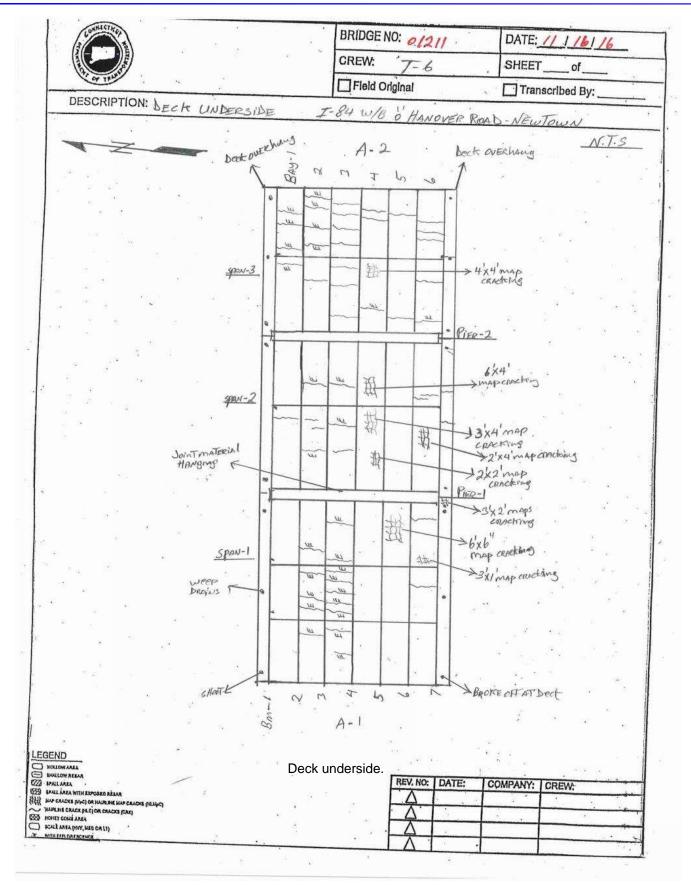
General Notes:

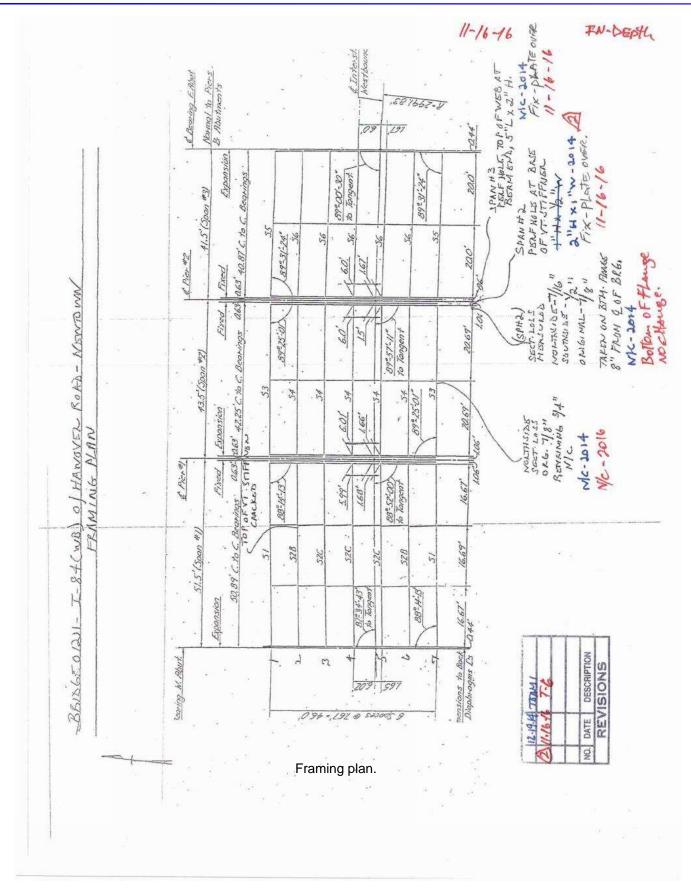
					BRIDGEN	NO:	9	01211	DATE :	11/16/2016
		FIELI	D NO	TES	Crew		1	Feam-6	SHEET	
		-		SLIDING	BEARING MEASUREMENTS Form BRI - 14, Rev 9/01					
		R1 R1 Lateral Misalign	a a a a a a a a a a a a a a a a a a a	Seat	Beam	$\square$	Sol. Sild	e Plate ling Plate sonry Plate Comment On:	Span No. = Substructure Unit = Temperature = - Presence of kee done on bearin - Undermining c	gs.
	FF	<u>RONT VI</u>	EW		<u>S</u>	IDE VIEV	V		- Cracking of pla - Condition of a	ates or welds
		Ν	Aovement			Condition	h.			
Brg	"L"	"R"	Mode Exp. or Contr.	Lateral Misalign.	Bearing Frozen?	Normal Mov't	Rust ? H/M/L		Comments	
1	7/16"	5/8"	Е	1/4"		Normal Mov't	L			
2	1/2"	1/2"	E	1/4"		Normal Mov't	L			
3	5/16"	1/4"	Е	0"		Normal Mov't	L			
4	1/2"	1/2"	E	0"		Normal Mov't	L		•	
5	7/16"	1/4"	Е	1/4" South		Normal Mov't	М	& sole plate.	<u>a</u> .	een masonry plate
6	7/16"	5/8"	E	3/16" South		Normal Mov't	М	pack rust betwe	en plates.	ble plate, & 1/16"
7	1/2"	1/2"	E	1/16" South	N	ormal Mc	Н	3/16" pack rust between sole & bronze plates, & 1/8" pack rust between Bronze and Masonry plate.		
								6		
							_			
Gen	eral No	o <u>tes:</u>								
						_				

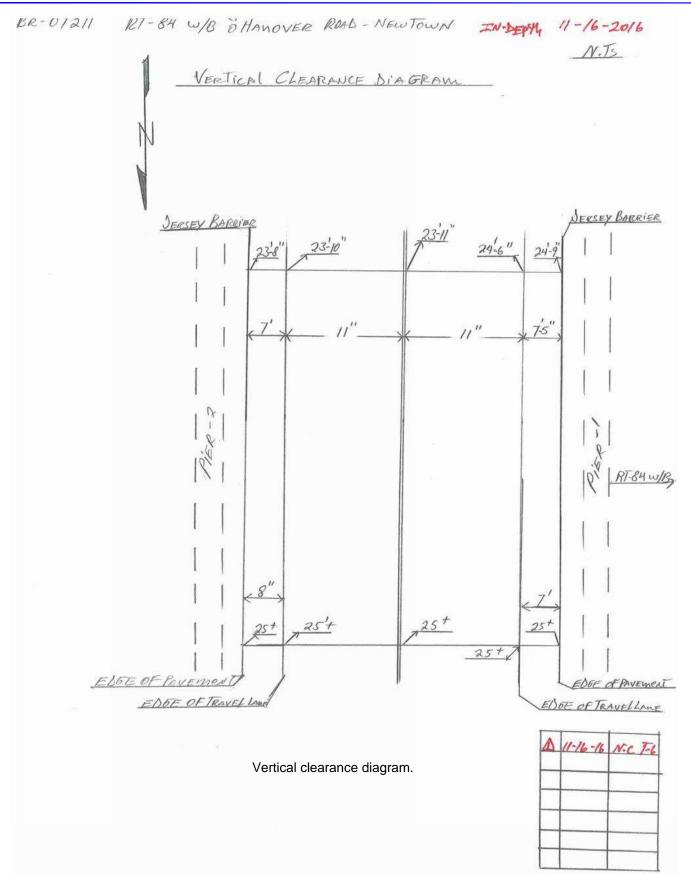
-	9		NIN	FEC	BRIDGE NO:			01211	DATE :	11/16/2016
		FIELI	D NO		Crew Team-6			Гeam-6	SHEET	
				SLIDING	BEARI Form B	<u>NG M</u> 8R1 - 14, Re	<u>EASUI</u> v 9/01	REMENTS		
			Z		Beam			e Plate ling Plate	Span No. = Substructure Unit =	3 Abut # 2
		-Lateral Misalign	ment	Seat	Me	asure and "R"	Ma:	Comment On:	Temperature = - Presence of kee done on bearing - Undermining o Attach sketch v	gs.
	<u>FF</u>	RONT VI	EW			IDE VIEV		Fi	<ul> <li>Cracking of pla</li> <li>Condition of an</li> </ul>	
		Ν	lovement			Condition				
Brg	"L"	" R "	Mode Exp. or Contr.	Lateral Misalign.	Bearing Frozen?	Normal Mov't	Rust ? H/M/L		Comments	
1	1"1/2"	1"1/2"	С	1/4"	N	Y	L			
2	1"1/4"	1"3/8"	С	1/4"	N	Y	L			
3	1"3/8	1"7/16"	С	1/4"	N	Y	L			
4	1"5/16"	1"9/16"	С	0"	N	Y	L	Light to moderate rust to plates.		
5	1"5/8"	1"3/4"	С	1/8"	N	Y	L	Light to moderate rust to plates.		
6	1"7/16"	1"3/4"	С	0"	N	Y	L			
7	1"3/8"	1"5/8"	C	0"	N	Y	L	Light rust to m	asonry plate.	
×										
								7		
<u>Gen</u>	eral No	otes:		-						

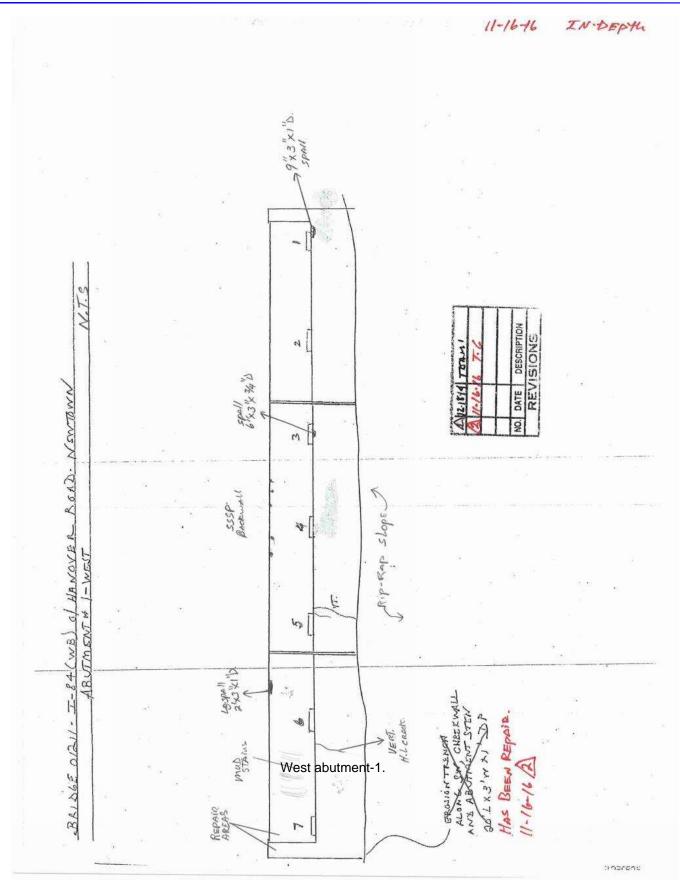
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(a)			minorsp	all	¥ ×		EMBANK	ent 1	
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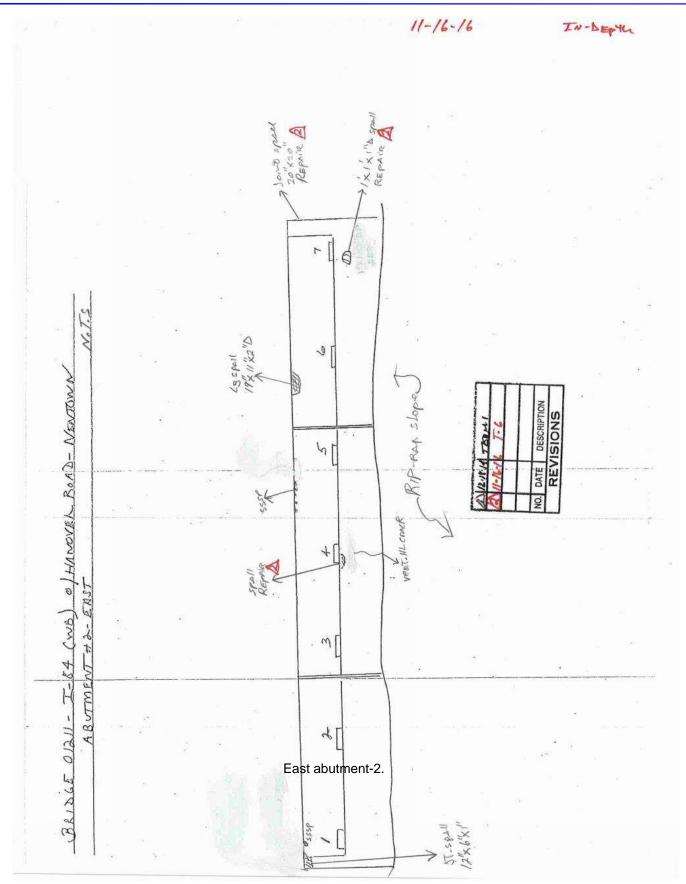
## Bridge No: 01211

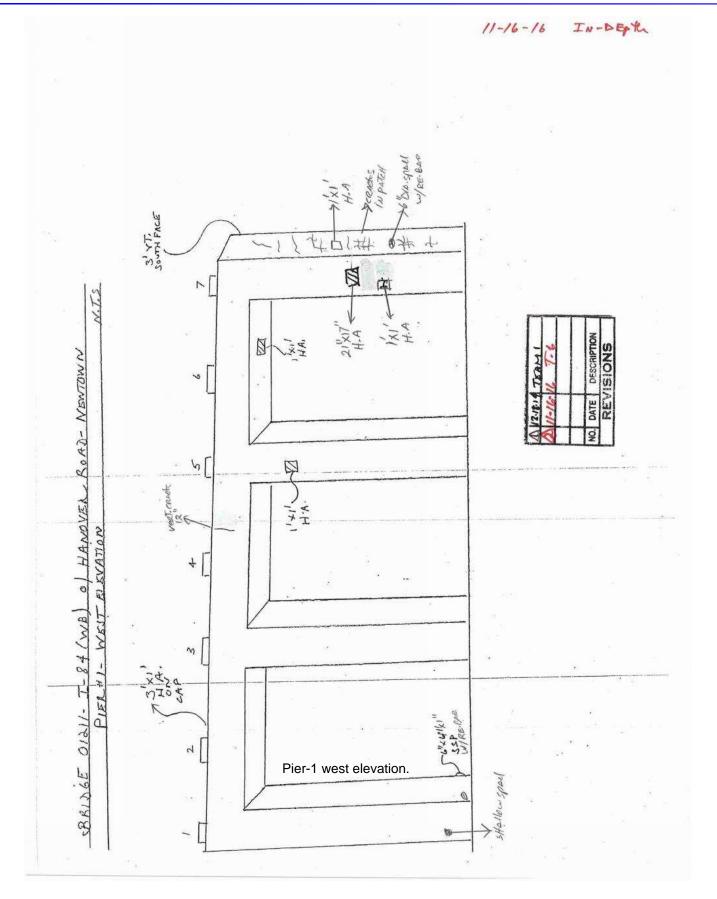


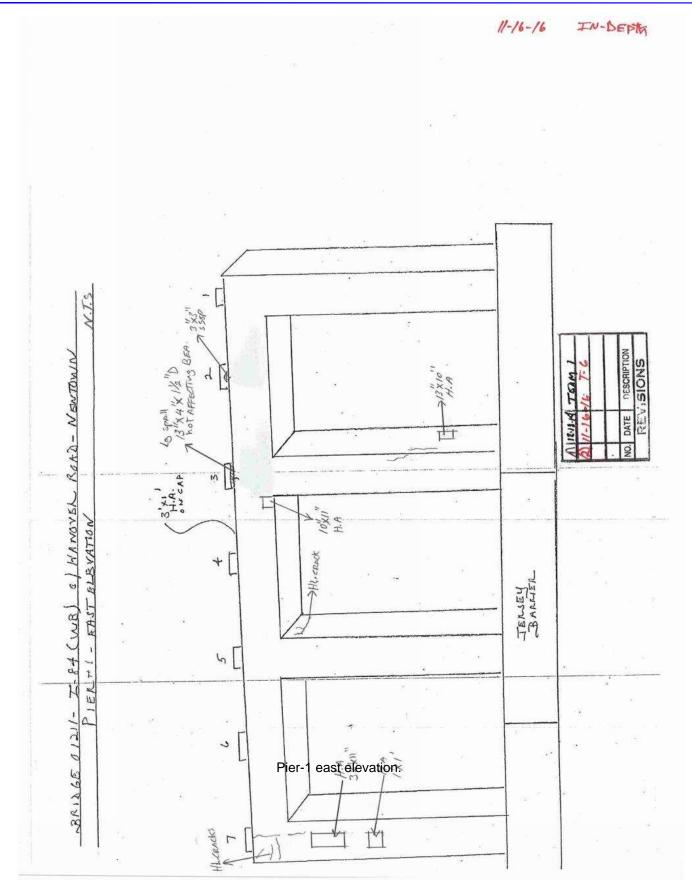


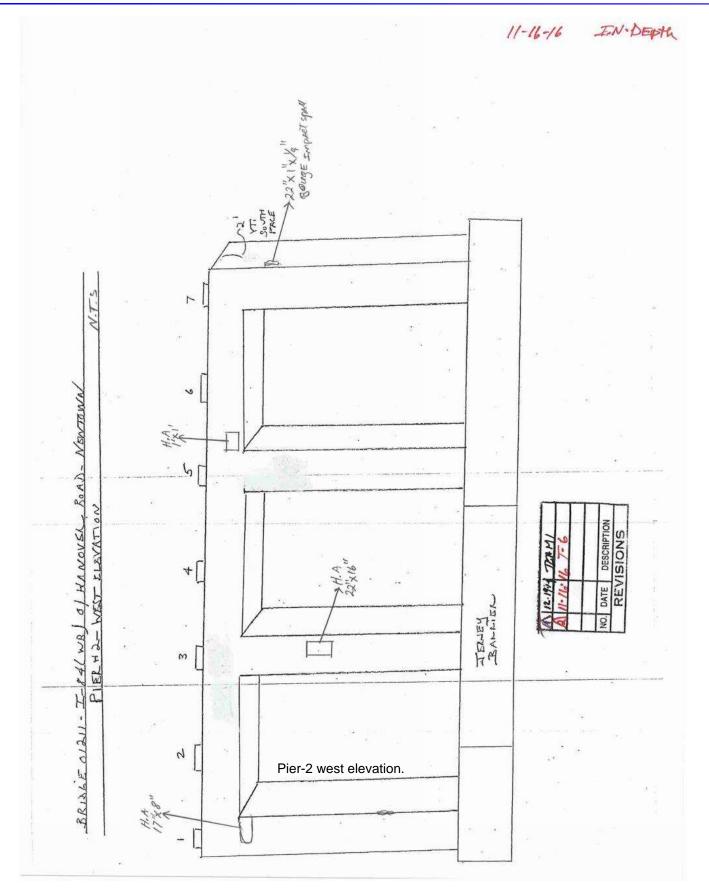


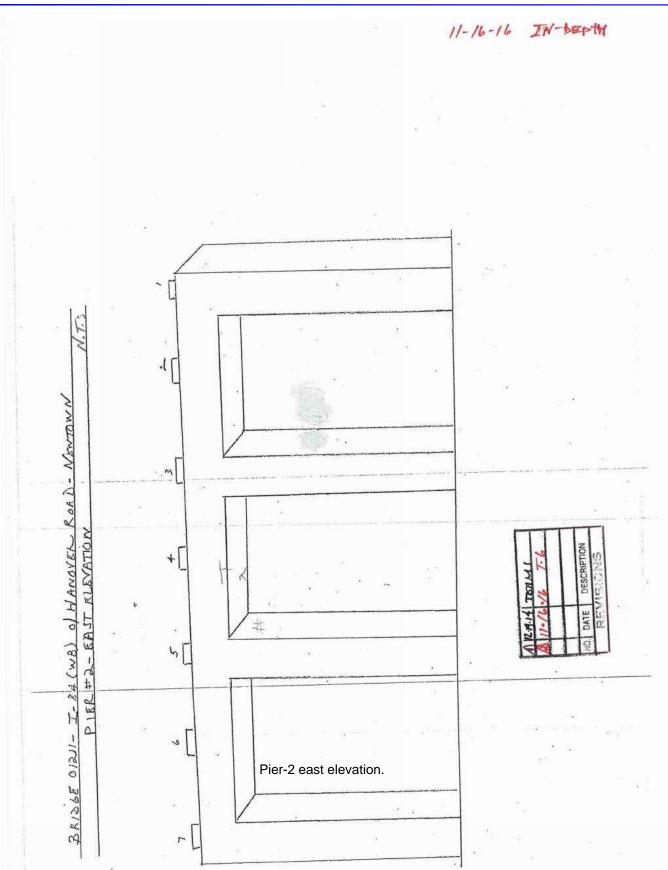












Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



#### Photo Number: 1

Photo Number: 2

Looking westbound.



Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 3

North parapet & railing.

Photo Taken: 11/16/2016

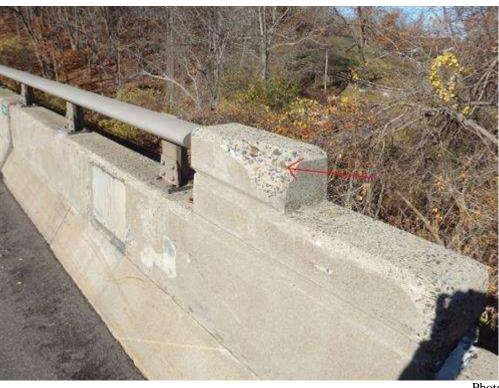


Photo Number: 4

Large spall at approach parapet northeast corner.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



#### Photo Number: 5

East approach, leading end W/B.



Photo Number: 6

A.P.J over east abutment.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 7

Wearing surface span# 3 W/B.



Photo Number: 8

A.P.J over pier-2 W/B.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 9

Settlement pot holes on joint & pot holes on span-2 adjacent to A.P.J over pier # 2.

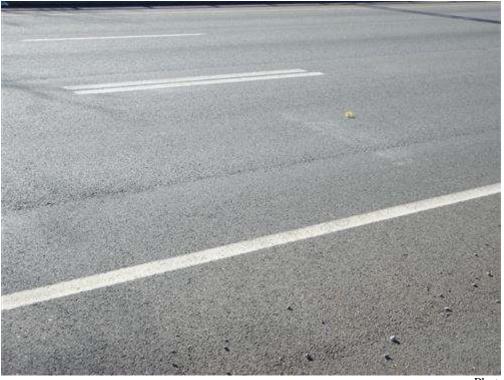


Photo Number: 10

Wearing surface span-2 W/B.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



#### Photo Number: 11

A.P.J over pier-1 W/B, and small pot hole on span-2 Adjacent to A.P.J over pier-1.



Photo Number: 12

Wearing surface span-1 W/B.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



### Photo Number: 13

A.P.J over west abutment W/B.

Photo Taken: 11/16/2016



Photo Number: 14

West approach, trailing end W/B.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 15

North elevation.

Photo Taken: 11/16/2016



Photo Number: 16

South elevation.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 17

West abutment.



Photo Number: 18

Typical expansion bearing west abutment.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



### Photo Number: 19

Rip-rap place at southwest corner.



Photo Number: 20

Deck underside span-1.

Photo Taken: 11/16/2016

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



#### Photo Number: 21

Pier-1 west elevation.



Photo Number: 22

Typical bearings pier 1.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



### Photo Number: 23

Bearing 2 pier 1 concrete between beams.



Photo Number: 24

Large spall pedestal 3 pier 1, span 2 east side.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



#### Photo Number: 25

Photo Taken: 11/16/2016

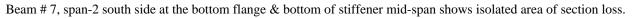


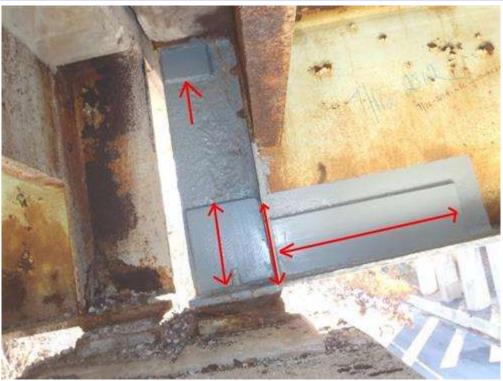


Photo Number: 26

Photo Taken: 11/16/2016

Beam 7 south side span 2 at pier 2, repairs have been made to bottom flange & beam end.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



#### Photo Number: 27

Photo Taken: 11/16/2016

Beam #7 north side at pier 2, repairs have been made to beam end & vertical bearing stiffener and bottom of web.



Photo Number: 28

Deck underside span-2.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS

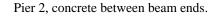


Photo Number: 29

Pier 2 west elevation..



Photo Number: 30



Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 31

Typical bearings pier 2.

Photo Taken: 11/16/2016



Photo Number: 32

Pier 2 east elevation.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



### Photo Number: 34

Typical expansion bearing east abutment



Photo Number: 35

East abutment.

Town: NEWTOWN Carried: INTERSTATE-84 WB Crossed: HANOVER ROAD Inventory Route: NHS



Photo Number: 36

Pier 1 east elevation.