STRUCTURE NO. 04601

NORTH BEAR HILL RD over NATCHAUG RIVER CHAPLIN

Indepth Inspection on 7/8/2009

Inspected by Team 4 for Area 4

TEAM:	Forwarded to TE3 D	on Carlson	Date	10/28/2009
<u>TE3:</u>	Reviewed by TE3	DMC	Date	10/28/09
	BMM Required		No	,
	Town Bridge		YES	
	Rating <= 5 (Item	ns 58,59,60 or 62)	YES	
	Forwarded to Supervisor	JCK	Date	11/5/09
	Forwarded to "To Be Copied I	Drawer"	Date	/ - /
	Date BRI-19	Entered 11/2	<i>p</i> 9	
SUPERVIS	OR: Reviewed by Super	visor/Bz Con	h.	Date Vov 18 200
SUPPORT	Date Copies Made	Glog BMM No	four	
	Scanned By: 8	Date Scanned [//	19/09	PDF Box No.

NBI: Yes

 Structure No.
 04601
 Town
 Chaplin

 Inspection Date
 7/8/2009
 Inspectors
 Team # 4

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Comments:

	ection 0	0 (A) Type of Wearing Surface 9 Other	108 Wearing Surface Protecting Surface	6 Corninated Stee		Spans, Main Unit 2		B) Design Type 2 Stringer/Multi-beam or Girder	Type, Main:	STRUCTURE TYPE AND MATERIAL 35) Structure Flared	99) Border Bridge Structure No	or) unage median	A) State Code A) State Code C) Border Town Name 32) Approa 33) Rridge	72deg 7 min 6.00 sec deg min			9) Location 0.4 MILE EAST OF RTE 198	7) Facility Carried: NORTH BEAR HILL RD 19) Bypas		NATCHAUG RIVER	C) Level of Service 0 None of the bel E) Directional Suffix 0 NA A) On	D) Route Number 00000	Town Code 13810		IDENTIFICATION	Copies Made Data Entry Date: 11/02/04	-	n Date 6/1/2007	Sufficiency Rating 45.17 STRUCTURE EVALUATION	Inspected By: 1000 Willis & 1/4/44 BRIDGE SAFETY & EVALUATION	Bridge Number 04601 MILL /ORG DEBARTMENT OF TOWNSCIONT
				BRIDGE COMMENTS	oo) win Lat Under Clearance on Left 0.0ft	T N Ker	N Ref Off Oin	Bridge 99ft		10)Inv. Rte. Min. Vert Clearance 99ft 99in Int In	e Flared 0	200	Deck Area	dway Width 18ft	Sec 51) Brg Rdwy width, curb-curb 23.4ft B) Right 0.0ft nf	Widths:	49) Structure Length 756	GEO!	19) Bypass, Detour Length 4miles	200	23) Average Daily Trailic 230 Half ADT?: No 109) Percent Truck 7%	B) Under 0		42) Type of Service: A) On Highway B) Inder S WATERWAY T	uilt 1969 106) Year Reconstructed 1990	AGE AND SERVICE		Fracture: Uwater	Type Frequency Team Date	0 0	Indepth Insp Deck Survey Access Flagman	90) Inspection Date Inspection Team 91) Frequency

						*
138/09	Date	D. Carlson	mph REVIEWED BY:		mph	Utility
20119		depth Insp Year 2009 Paul D'Attilio Theodore Lapierr	Proposed Next Indepth Insp Year In Senior Th	tons	tons Actual P.L. All Vehicles ft in	Rec. P.L. All Vehicles Posted Vert Clearance On Bridge Posted Vert UnderClearance
	COMMENTS	INSPECTION COMMENTS			Н	rTruck
Yes	Loose Concrete Checked?		Fence Top Type	30 tons	tons Rec. P.L. 4Axle Truck	Actual P.L. Semi-TrailerTruck 12
Z o	Movable Inspection System		Fence Type	30 tons	tons Actual P.L. 4Axle Truck	Actual P.L. Single Unit Truck 8
Z Z	t Cat Walks	₹	Fence Height	\Box		Other Posted Signs 1 Other Posted Signs 2
No No	Barrel Ladder	8	Fence Required		POSTED SIGNS & UTILITIES	
	OTHER FEATURES	OTHER F			Advertised	
		Guardrail End 0	D) Approach Guardrail End			97) Year of Improvement Cost Est.
		buardrail	C) Approach Guardrail		•	
			B) Transitions			ost
		reatures:	A) Bridge Railings			94) Bridge Improvement Cost \$
				- - -	0 #	76) Length of Struct Improvement
[Checked By:	Items 58 Thru 72	F		75B) Work Done By
3	113) Scour Critical		1		TROPOSED IMPROVEMENTS	75A) Type of Work Proposed
	72) Approach Rdwy Alignment	Z	62) Culverts		DODOGED MADDONESATATO	
A PA	71) Waterway Adequacy		61) Channel & Chan. Protection			116) Vert-Lift Brg Nav Min
4 4 1/10	69) Under Clear Vert & Haris		60) Substructure		40) Navigation Horiz Clr. 0	39) Navigation Vert Clr. 0
4 4 DMC	6/) Structure Evaluation		50) Deck		 No navigation control on waterway 	38) Navigation Control
Rating By	1	Rating By	58) Dock		3200	DrainageBasinCode
S	APPRAISALS		0			
[Posted for load	ing 21.6 .	66) Inventory Rating		5 Bridge is not eligible for National Register	37) Historical Significance
व	41) Structure Status P	Type 1	65) Inventory Rating Type	E	I OCAL	Report Class
		36.0	64) Operating Rating	Н		21) Maintain
	Year of Evaluation 2009	1	63) Operating Rating Type			20) Toll
	LOAD RATING AND POSING	ľ	31) Design Load	I	 Not on national network 	110) Designated National Network
AM 48 1 1/10 1	· W. LUNY		inspected by.	1		103) Temporary Structure
I VAMA	^		neperted Rv.	Ι	2 2-way traffic	102) Direction of Traffic
RIVER	Feature Crossed NATCHAUG RIVER	Fe			No position of a STRAHNET Route	100) Derense Highway
RHILL RD	Facility Carried NORTH BEAR HILL RD	OFFa	SHEET 4			26) Functional Class
Yes 75	Town Name CHAPLIN		טוובבו ב טד ב די		0 Off System	104) Highway System
NBIS Length	Bridge Number 04601				Yes	112) NBIS Bridge Length
	1	_	CTDIICTII		CLASSIFICATION	

Connecticut Department of Transportation

Bridge Inspection Report BRI-18

Bridge #: 046	01					Inspe	ctio	n Date: 07/08/	2009
Inspection Type	: Inde	pth	Pre Dat	vious Inspection e:	6/1	/2007		Snooper Required:	No
Inspection Performed By:	Tean	m 4	Fea	ture Carried:	NC RE	ORTH BEAR HIL)	L	Snooper Used:	No
Town:	СНА	PLIN		ture rsected:	NA	TCHAUG RIVE	R	Year Built:	1969
Location:	0.4 N RTE	MILE EAST OF 198	Mai	n Design:		ringer/Multi-bean der	n or	Year Rebuilt:	1990
Main Material:	Steel	I]					,	
Visits					li	nspectors:			
	Temp:	Start Time:		End Time:		nspector:	Та	sk:	
	74	11:35:00 AM		12:00:00 PM	إل	D. Willis	Le	ad Inspector	
7/29/2009	80	10:00:00 AM		3:00:00 PM][M. Long	Le	ad Inspector	
9/23/2009	82	10:45:00 AM		11:00:00 AM		T. Kahak	Ins	spector	
DECK:	- Rati	ing						Overall Rating:	5
	LAY : 6	O C C C O D P P O M W A S W P L	VER ORRI RACH F THI ATCH F PAS IULTII /ELL ND G HOUL /ITH L	NE-HALF INCH THI TWO INCHES OF E UGATED STEEL DE KING, OPEN A MAX E DECK, ADJACEN HES, ARE NOTED A ST REPORTED DE PLE TRANSVERSE AS IN THE NEWER OUGES, ALONG TH LDERS SHOW LIGH IGHT SURFACE G S. STILL SHOW LIGH S.	BITU ECK (IML T TO LON CK E CR BIT HE E HT T	MINOUS MATER, STILL SHOWS FOR THE PIER. ARE SEACH DECK END SPALLING. EACKING, WITHIN UMINOUS PATCHOCK ENDS ARE O MODERATE SAGES. THE OUTSIE	IALS TULL , MAI AS C END, BOTH THE HES. AND DE F	, OVER A WIDTH TRANSVE INLY IN THE AREA OF BITUMINOUS FROM THE REPA I DECK ENDS SHO PAST SURFACES SOME SCRAPES, O NOTED. BOTH ACCUMULATION, ASCIA DECK EDGI	RSE AS IR DW 3, AS
DECK-S CONDIT		SH FA SH AF AE	HOW ASCIA HOW REAS DJAC	NDERSIDES OF TH LIGHT RUSTING C AS. THE OVERLAP SIGNS OF ACTIVE OF LIGHT RUSTIN ENT TO THE STRII BIORATION, IS ABO	JOII LEA IG A	HE FORM EDGES NTS OVER, AND AKAGE, AND LIGI ARE ALSO NOTEI ER UPPER FLANG	S, AL ADJA HT TO ALC SES.	ONG BOTH OUTS ACENT TO, THE PI O HEAVY RUSTING ONG LOCATIONS,	IER G.
CUF	RBS: N	TH	HIS S	TRUCTURE SHOW	SN	O CURBS.			
MED	IAN: N	TH	HIS S	TRUCTURE SHOW	SN	O BRIDGE MEDIA	AN.		
	_								

SIDEWALKS:	N .	THIS STRUCTURE SHOWS NO SIDEWALKS.
PARAPET:	Ν	THIS STRUCTURE SHOWS NO PARAPETS, OR RAILBASES.
RAILING:	7	BOTH BRIDGE RAILS ARE COMPOSED OF H-BEAM POSTS, ATTATCHED TO STEEL STAND-OFFS, WHICH ARE WELDED TO THE FASCIA STRINGER WEBS, AN ANGLE IRON CAP, WITH ONE COURSE OF METAL BEAM RAIL CARRIED ACROSS THE STRUCTURE, FROM THE APPROACH ROADWAY. THE SURFACES STILL SHOW AREAS OF BLUSH, AND LIGHT SPOTTY RUSTING, WITH SMALL POCKETS OF PEELING PAINT. THERE IS STILL A MINOR COLLISION RUB ALONG THE NORTHEASTERLY CORNER.
PAINT:	N	-
FENCE:	N	THIS STRUCTURE SHOWS NO BRIDGE FENCE.
DRAINS:	N	THIS STRUCTURE SHOWS NO BRIDGE SCUPPERS, OR PVC DECK WEEPS.
LIGHTING STANDARD:	N	THIS STRUCTURE SHOWS NO BRIDGE LIGHTING.
UTILITIES TYPE/SIZE:	N	THIS STRUCTURE SHOWS NO UTILITIES.
CONSTR JOINTS:	N	-
EXPANSION JOINTS:	50.00	WHILE THERE ARE NO FORMAL EXPANSION JOINTS, THE OVERLAY SURFACE, AND OLDER PAST REPAIRED AREAS, STILL SHOW MULTIPLE TRANSVERSE CRACKS, ALONG EACH END OF THE STRUCTURE.

59. SUPERSTRUCTUR	RE:		Overall 4 Rating:
	Rating		
BEARING DEVICES:	4	THERE ARE NO BEARINGS OVER THE WESTERLY STRINGERS REST ON A THIN CONCRETE LEVELING STILL RINGS HOLLOW ALONG THE OUTSIDE OF STRINGERS OVER THE PIER, ARE PLOW BLADE TYPESHOW A VERY WAVY TEXTURE, AND A NON-UNIFOR THE CAP, BECAUSE THE CAP ITSELF, IS WAVY. THE CAP, BECAUSE THE CAP ITSELF, IS WAVY. THE AREAS OF HEAVY RUSTING, WITH THICK LAMINAR MODERATE PITTING, AND VISIBLE LOSS AREAS. THE EASTERLY ABUTMENT, ARE A VERY THIN PLATE IN THIN SHEETS OF LAMINAR, AND IMPACTED FOR THE PLATE, AND STRINGER LOWER FLANGES. BEARING AND NINE, SHOW A NON UNIFORM BEARING SURF SPREADING BETWEEN THE PLATE, AND LOWER FLANGES. THE EAST SHOWS A QUARTER INCH GAP BETWEEN CAP, AND THE PLATE TO LOWER FLANGE. THE EAST SPAN OVER THE PIER OF THE PIER	G CAP. THE CAP TRINGER 9. THE PE MATERIAL. THEY PE ALSO SHOW ISHEETS, HE BEARINGS OVER TE TYPE, ABOUT AN PODERATE RUSTING, RUST BETWEEN THE GS FIVE, EIGHT, ACE, AND LANGES. BEARING THE PLATE AND ST EDGE OF FR, IS UNDERMINED
STRINGERS:	4 Jak	THE SALVAGED STRINGER SUPERSTRUCTURE, SHOLES OF VARIOUS STRINGER ENDS, OVER THE EAND ALONG THE FASCIA STRINGER ENDS, OVER EPIER. THIS HAS BEEN PAST DOCUMENTED. THE STAREAS OF BLUSH, AND SPOTTY RUST, TO THE WEFLANGES, OF THE INTERIOR STRINGERS. ALSO NO SCALE, FINS, AND SLIVERS. THE FASCIA STRINGER MODERATE RUSTING OF THE INTERIOR TOP FLANTHE INTERIOR STRINGER TOP FLANGES, SHOW IS MODERATE TO HEAVY RUST AREAS. MANY BOTTO BENT UPWARDS, AS WELL AS LATERALLY. STRINGE EAST ABUTMENT, SHOWS HEAVY RUSTING WITH L STRINGER 7, OVER THE EAST ABUTMENT, SHOWS WITH LAMINAR SHEETS. STRINGER 8 OVER THE EAST SHOWS HEAVY RUSTING WITH LAMINAR SHEETS, FLANGE, THE EDGE HAS BEEN REDUCED. REFER TLOSS NOTES. THE FLANGE HAS PAST BENT WHEN HAMMER. STRINGER 9, OVER THE EAST ABUTMEN' LOWER FLANGE, AND A PORTION OF THE WEB, AR SAND DEBRIS. THERE IS A BAND OF LAMINAR RUS' WEB, MEASURING TWO INCHES HIGH, BY FIVE FEE THERE IS SOME PITTING. ALL STRINGERS ENDS OF SPAN, OVER THE PIER, SHOW HEAVY RUSTING WITSHEETS, OF THE UPPER, AND LOWER FLANGES, AS AREAS. THERE IS LOSS OF SECTION. THE TOP FLASTRINGERS 5, AND 6, OVER THE PIER, OF THE WESSHOW HEAVY RUSTING WITH LAMINAR SHEETS, OF FLANGES. STRINGERS FOF THE WESTERLY SPAN, OF STILL SHOWS A PERF HOLE TO THE LOWER WEB AS INCHES LONG, BY UP TO 1-1/4 INCH HIGH. THEP POCKETS OF TIMBER DEBRIS LODGED BETWEEN TRANDOM LOCATIONS. AS OF A SPOT INSPECTION IS GIRDER # 5 HAS BEEN CRIBED WITH CONCRETE BLOWN ROAD CREW.	EAST ABUTMENT, EACH SIDE, OF THE FRINGERS SHOW BS AND LOWER DTED ARE MILL RS, SHOW LIGHT TO GES, THRU-OUT. OLATED AREAS OF M FLANGES ARE HER 5, OVER THE AMINAR SHEETS. HEAVY RUSTING AST ABUTMENT, TO THE BOTTOM TO THE SECTION STRUCK WITH A T, THE OUTSIDE E COVERED WITH T TO THE LOWER TT IN LENGTH. THE EASTERLY TH LAMINAR S WELL AS WEB NGES OF STERLY SPAN F THE TOP OVER THE PIER, HEA, MEASURING HE ARE ALSO THE STRINGERS AT DONE ON 9/23/09
GIRDERS:	N	-	7

FLOOR BEAMS	N	-	
TRUSSES- GENERAL:		-	
TRUSSES- PORTALS:		-	
TRUSSES- BRACING:	1.0		
PAINT	5	REFER TO THE ABOVE DESCRIPTIONS.	
RUST:	4	REFER TO THE ABOVE DESCRIPTIONS.	
MACHINERY MOV SPAN:		-	
RIVETS & BOLTS:	Ν	-	
WELDS - CRACKS:	8	THE STRINGERS ARE CHECKED HANDS-ON.	
TIMBER DECAY:	Ν	-	
CONCRETE CRACKING:		-	
COLLISION DAMAGE:		THE SUPERSTRUCTURE SHOWS NO COLLISION	DAMAGE.
MEMBER ALIGNMENT:		-	
DEFLECT. UNDER LOAD:	2.0	-	
VIBRATION UNDER LOAD:		-	
STAND PIPES:	Ν	-	
BARREL LADDERS:	Ν	-	
		ARE BARREL LADDERS	OSHA COMPLIANT? -
SUBSTRUCTURE:	-		Overall Rating: 4
	Rating		
ABUTMENTS- STEM:	6	BOTH ABUTMENTS ARE A CAST IN PLACE, TRI-S WITH A CONCRETE RUB COAT FINISH. BOTH SHICRACKING, WITH DELAMINATIONS OF THE RUB CRACKING, SHRINKAGE WITH CURING CRACKIN AND LIGHT SCALE AREAS. THE WESTERLY ABUT SEVERAL DELAMINATIONS ALONG THE UPPER CONTRESTER STRINGERS. THE EASTERLY CAP EDGE SHOOGE SPALLING, BUT THE BEARINGS ARE NOT	OW VERTICAL COAT, POURLINE G, HONEYCOMBING, TMENT SHOWS CAP, ADJACENT TO DWS SOME MINIMAL
ABUTMENTS- BACKWALL:	5	THE CHANNEL SHAPED STEEL BACKWALLS, SHO MODERATE, TO HEAVY RUSTING, SOME WITH LA BOTH FLANGE AREAS, WITH LIGHT RUST AREAS	AMINAR SHEETS, OF
ABUTMENTS- FOOTINGS:	6	SIX LINEAR FEET OF THE FOOTING EDGE, AND T STILL VISIBLE, ALONG THE WESTERLY ABUTMEN THAT IS VISIBLE SHOWS LIGHT SCALING. THERE CONCRETE TRANSVERSE STRUTS, BETWEEN TH WESTERLY ABUTMENT. THEY SHOW ONLY LIGH	NT. THE PORTION EARE ALSO TWO, HE PIER, AND THE
ABUTMENTS-		THERE ARE NO SIGNS OF SETTLEMENT TO THE	ABUTMENTS.

SETTLEMENT:	8	
ABUTMENTS- WINGWALLS:		TWO FOOT, BY FOUR FOOT, CONCRETE PRE-CAST BLOCKS, ARE USED AS WINGS ALONG THE WESTERLY ABUTMENT. THEY SHOW VEGETATION, AND EMBANKMENT OVERBURDEN. BOULDERS ARE PLACED ALONG THE NORTHERLY END, OF THE EASTERLY ABUTMENT. IT SHOWS SMALL FILLER STONE VOIDS. THERE IS NO FORMAL WINGWALL ALONG THE SOUTHERLY CORNER, OF THE EASTERLY ABUTMENT.
PIERS/BENTS- CAPS:		THE ORIGINAL PIER CAP IS VISIBLE, AND HAS NOT RECIEVED REHABILITATION REPAIRS IN THE PAST. IT STILL SHOWS AREAS OF MULTIPLE CRACKING, AND DELAMINATIONS TO THE RUB COAT, WITH HORIZONTAL POURLINE CRACKING. THE SOUTHERLY END OF THE CAP, SHOWS ABOUT 4 SQUARE FEET OF CORNER SPALLING, ANDSPALLING OF THE LOWER CAP BETWEEN THE CORNERS, ABOUT THREE INCHES IN DEPTH, REVEALING VERY LOOSE, AND PUNKY CONCRETE. THE REMAINING SURFACES WHERE NOT SPALLED, RING HOLLOW WHEN STRUCK WITH A HAMMER. THE EASTERLY FASCIA, UNDER STRINGERS THREE, AND FOUR, SHOW FOUR SQUARE FEET OF SPALLING, ABOUT TWO INCH IN DEPTH, AND 2.5 SQUARE FEET OF SPALLING, WITH ADJACENT DELAMINATIONS, UNDER STRINGER 8, PAST UNDERMINING THE BEARING PLATE, UP TO 3 INCHES.
PIERS/BENTS-PILE BENT:	Ν	•
PIERS/BENTS- COLUMNS:		A CAST IN PLACE, SQUARE BLOCK STRUCTURE, HAS BEEN CONSTRUCTED AROUND THE ORIGINAL STEM AREA, IN AN ATTEMPT TO ENCASE THE ORIGINAL STEM AREA. IT SHOWS RANDOM CRACKING, WITH AREAS OF LIGHT HONEYCOMB.
PIERS/BENTS- FOOTING:		THE FOOTING IS STILL GENERALLY VISIBLE AROUND THE PERIMETER OF THE PIER. THE NORTHERLY INLET FASCIA OF THE FOOTING, IS STILL EXPOSED UP TO 24 INCHES HIGH. THE FOOTING SHOWS LIGHT TO MODERATE SCALING, WITH TRANSVERSE CRACKING, ALONG THE CAP.
PIERS/BENTS- SETTLMT:	8	THERE ARE NO SIGNS OF SETTLEMENT TO THE PIER.
EROSION-SCOUR:		THREE VERTICAL FEET OF SCOUR, HAS PAST OCCURED AT THE NOSE OF THE PIER. THIS TAPERS OFF AS YOU MOVE DOWNSTREAM ALONG THE STEM.
CONCRETE CRACK-SPALL:	4	REFER TO ALL ABOVE DESCRIPTIONS.
STEEL CORROSION:	Ν	-
PAINT:	N	-
TIMBER DECAY:		
COLLISION DAMAGE:	8	THE SUBSTRUCTURE SHOWS NO COLLISION DAMAGE.
DEBRIS:	7	THERE IS LIGHT SAND DEBRIS ON THE PIER, AND ABUTMENT CAPS.
1. CHANNEL & CHANNEL PROTECTION:		Overall Rating:
CHANNEL SCOUR:	Rating	

	6	AS NOTED EARLIER, THERE IS THREE VERTICA NOTED SCOUR, ALONG THE NOSE OF THE PIER ALONG THE INLET, CAN RANGE FROM ONLY A C TO AS MUSH AS 16, AT THIS TIME. THE WATER I THE PIER, IS AS MUCH AS 36 INCHES.	R. THE WATER DEPTH COUPLE OF INCHES,
EMBANKMENT EROSION:		EMBANKMENT ENCROACHMENT, IS STILL NOTE SOUTHWESTERLY, AND SOUTHEASTERLY BANI NORTHEASTERLY, AND NORTHWESTERLY BANI EROSION, EXPOSING TREE ROOT SYSTEMS.	KS. THE
DEBRIS:	6	THERE IS STILL A SILT ISLAND IN PLACE, DOWN LIGHT TIMBER DEBRIS, IS NOTED ALONG THE E	
VEGETATION:	6	ALL BANKS ARE WELL VEGETATED, AND OVERH	ANG THE CHANNEL.
CHANNEL CHANGE:		THE CHANNEL HAS PAST CHANGED DUE TO EN EROSION, AND SCOUR.	CROACHMENT,
FENDER SYSTEM:	Ν	-	
SPUR, DIKES & JETTIES:		-	
RIP RAP:	N	RIP-RAP IS NOT USED ALONG THE BANKS OF TH	HIS CHANNEL.
62. CULVERTS &	-		l N
RETAINING WALL:			Overall Rating:
65. APPROACH CONDITION	-		Overall Rating: 6
	Rating		
APPROACH SLAB:	Ν	-	
RELIEF JOINTS:	Ν	-	
APPROACH GUIDE RAIL:	7	LONGER SECTIONS OF METAL BEAM RAILING, A THE WESTERLY APPROACH SHOULDERS, AND C STRUCTURE. THE RAIL ATTACHMENT TO THE BF	CARRIED OVER THE
		NORTHWESTERLY CORNER, HAS BECOME PART DISCONNECTED, AND IS STILL BOWING OUT SOI SHOWS SOME LONGITUDINAL TORN AREAS. VER OF RAILING, ARE NOTED ALONG THE EASTERLY SHOULDERS. THE RAILING IS STILL DENTED AT ALONG THE NORTHEASTERLY CORNER.	TALLY MEWHAT, AND ALSO RY SHORT SECTIONS APPROACH
APPROACH PAVEMENT:		DISCONNECTED, AND IS STILL BOWING OUT SOI SHOWS SOME LONGITUDINAL TORN AREAS. VER OF RAILING, ARE NOTED ALONG THE EASTERLY SHOULDERS. THE RAILING IS STILL DENTED AT	FACES, SHOW ACKING, SOME ARE THE EASTERLY, AND OUS PATCHES, BREAKAGE ALONG NEWER BITUMINOUS

TRAFFIC	SAFETY
FEATURE	S

	Rating	
BRIDGE RAILINGS:	0 Recommended: -	-
TRANSITIONS:	Last Inspection: 0 Recommended:	- .
GUARDRAILS:	Recommended: -	-
APPR. GUARDRAIL ENDS:	Last Inspection: 0 Recommended: -	-

66. LOAD POSTING

	- Posted Loading -	
SINGLE UNIT (TONS):	Last Inspection:	-
	8	
	Recommended:	
CEMITDAII ED		
(TONS):	Last Inspection:	-
(1010).	Recommended:	
	-	
4 AXLE (TONS):	Last Inspection:	-
And the second s	30	
	Recommended:	
	-:	
3S2 (TONS):	Last Inspection:	•
	- Recommended:	
	-	
ADVANCE WARNING	8	
(Y/N):	Ö	
LEGIBILITY:	8	
VISIBILITY/LOCATION:	8	
	0	

67.				
MISCEL	LA	NE	OL	JS

MISCELLANEOUS			
	Rating		
MIN. VERT. UNDERCLEARANCE:	Last Inspection: 0' 0" Recommended: -' -"	-	
POSTED CLR. UNDER BRIDGE:	Last Inspection: -' -" Recommended: -' -"	-	
POSTED CLR. ON BRIDGE:	Last Inspection: -' -" Recommended: -' -"		
ADVANCED WARNING (YES/NO):	No	-	
SPEED LIMIT (IF ANY):	Last Inspection: - Recommended:	-	
CHARACTER OF TRAFIC:	-	THE TRAFFIC VOLUME WAS LIGHT OVER THE INSPECTION, WITH ALL TYPES OF V	
ADDITIONAL NOTES:		DURING THE 2005 INSPECTION OF THIS STOWN CREW HAD TO BE NOTIFIED, VIA STAUCTURE, OVER THE BACKWALL, MEATER IN LENGHT, AND UP TO 10 INCHES FILLED IN WITH BITUMINOUS PATCH. THIS DE A HAZARD TO MOTORCYCLE, OR EAPPEARS THAT THIS AREA MAY AGAIN OF FUTURE.	SENIOR ENGINEER JOHN STERLY END OF THE ASURING ABOUT 2 LINEAR WIDE. THIS AREA WAS S HOLE AGAIN APPEARED BICYCLE TRAVEL. IT
ADDITIONAL COMMENTS:		THE BRIDGE NUMBER IS NOT POSTED OF	N THIS STRUCTURE.
Inspectors' Signatur	2)		Date: 7/8/09 Date: 7/8/09 Date: 7/8/09
	3) _7.	1641441L WE	Date: /

	4)	Date:/
P.E. Signature:		Date:/
P.E. #:		Date:/
Reviewed by:	D. Calson .	Date: 12-1281-02

DATE CHECKED	PREPARED BY AREA T	DES. 3 REV. 8/88 DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS STATE OF CONNECTICUT COMPUTATION SHEET	organization unit no.	WORK ORDER NO.
SUBJECT: BR#	04601 North	Bear Hill Rdo-Nat	chaug River	Chaplin
3"x3 Anol	X 3/8 E IRON 3/11 3/11 3/11 5/16 5/16 5/16 5/16 5/16 5/16 5/16 5	18" 11/1/////////////////////////////////	3,5" Hares 2:5" 3 5.5"	S PAN#2
A	3/3/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	18" 18"	10CE 1 3' 3' x ³ NY 3.5 -4" STEEC	

DAT CARE	:D -99	PREPARED BY	Depa	State of Connecticut artment of Transporta gineering & Highway ES-003 REV 1-93	ation	ORGANIZATIO	N UNIT NO.	WORK ORDE	R ŃO.
DATE CHECKED		CHECKED BY		(302-06-0225) MPUTATION SHE		1301	,	SHEET NO.	
SUBJECT	Hollom	A A (E A 16" H X 72" W	EAS	FACE	SPAN / 6	by 6x4	(cho		(N.T.S)
	BONIER	14,5 × 10,7 × 1.2	BEARING	#8 200	インファイン インショントイン	1/113		-	
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FIELD NOTES

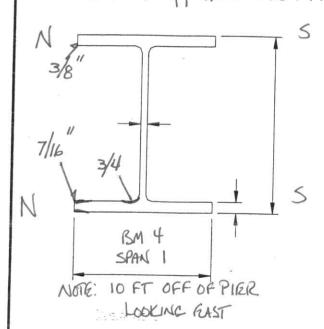
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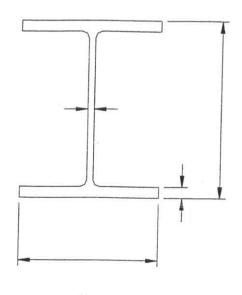
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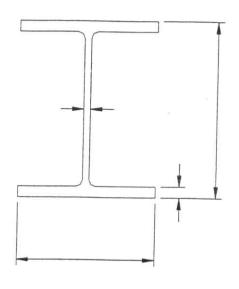
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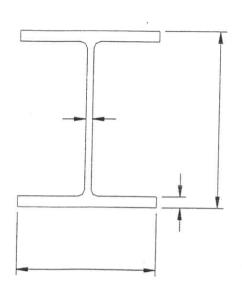
SHEET

W-SHAPE BEAM BM# 4 Approx 10 FROM PIER









DATE PREPARED 7/29/09 DATE CHECKED PREPABED BY CHECKED BY

State of Connecticut
Department of Transportation
Bureau of Engineering & Highway Operations
DES-003 REV 1-93
(302-06-0225)
COMPUTATION SHEET

ORGANIZATION UNIT NO. WORK ORDER NO.

1307

SHEET NO.

SUBJECT: BR#04601 CHAPLIN

ELEVATION VIEW

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BM 3 SOUTH FACE

AT ABUT # 1

7/1/4/4/

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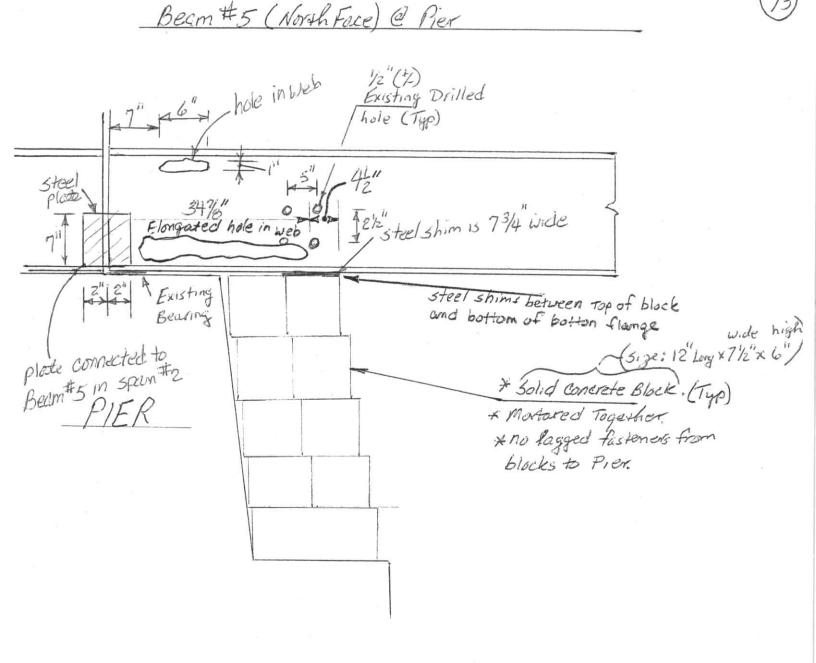
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State of Connecticut
Department of Transportation
Bureau of Engineering & Highway Operations
DES-003 REV 1-93
(302-06-0225)
COMPUTATION SHEET DATE PREPARED PREPARED 8 ORGANIZATION UNIT NO. WORK ORDER NO. DATE CHECKED CHECKED BY SHEET NO. 1301 SUBJECT North Bear Hill Bd. over Natchaus Priver Bridge 4601 (chaplin) (N.T.3 SHOULD BY REMOVED. I SP U Printed on Recycled or Recovered Paper P.10422

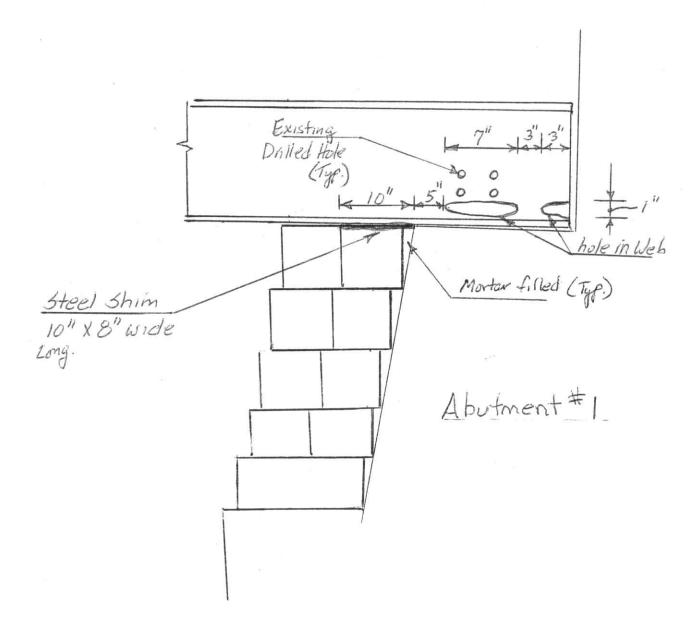
ULPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS STATE OF CONNECTICUT ORGANIZATION UNIT NO. | WORK ORDER NO. J. manio rescen 2-2-88 DATE CHECKED CHECKED BY 1201 COMPUTATION SHEET SHEET NO. SUBJECT: BRIDGE # 9601 NORTH BEAR HILL RD Chaplin (OFF SYSTEM) 3006 Bm5 BM3 Bm4 BMT 1.3,4012 MAAN. 6 ON ON THE NA OF Phoro W 74.513 3 "holes mucho 1.0702-2 & 8017 NE ofan FLOW 3-3" 406.65 1 772. 5 2 60 00 00 PIER -3" Noles 3-3" holes occition が 15/2 PAOTO Phato y los From & 2:31 e-3 hold an 72.8 50605 17/2 FRAMING PLAN ins. Br.# 04601, North Bear HillRd of Natchang River

11/6/09



Location # 2 (Elevation - Looking South) (N.T.5)

Br. # 04601, North Bear Hill Rd of Northaug River Chaplin
Beam #5 (North Face) @ Abortment #1



Location #1 (Elevation - Looking South)
(N.T.S.)

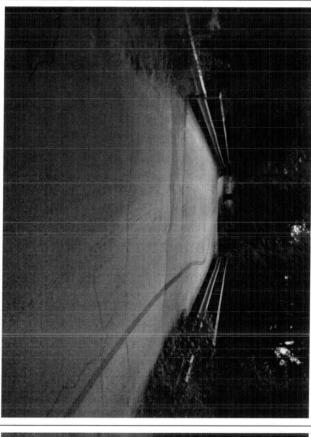


Photo # 1: WEST APPROACH.

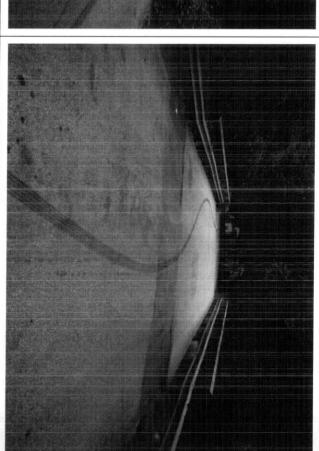


Photo # 2: EAST APPROACH.

12 We 7 W. 15	Feature Crossed:	Feature Carried:	Town:	No.
Inspected by: Inspected by: Date Inspected: Project No.:	NATCHAUG RIVER	N. BEAR HILL RD.	CHAPLIN	04601
	Project No.:	Date Inspected:	Inspected by:	Inspected by:



Photo # 3: NORTH ELEVATION.

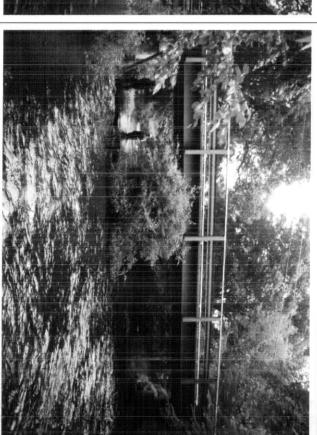


Photo # 4: SOUTH ELEVATION.



Photo # 5: WEST APPROACH PAVEMENT.

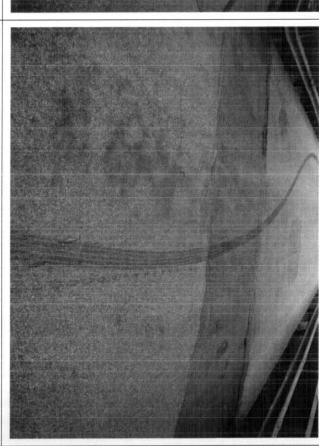


Photo # 6: EAST APPROACH PAVEMENT.

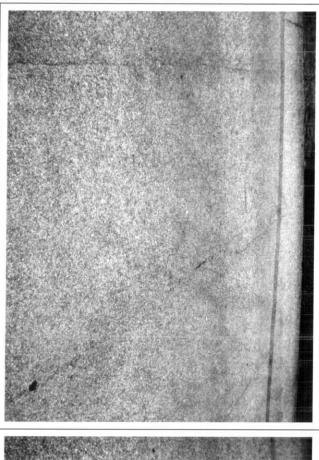


Photo # 7: WEARING SURFACE OF SPAN # 1.

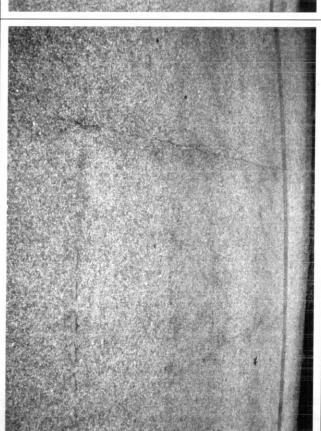


Photo # 8: WEARING SURFACE OF SPAN # 2.



END. Photo # 9: TRANSVERSE CRACKS AT EAST DECK



Photo # 10: TRANSVERSE CRACKS AT WEST DECK

END.

Feature Crossed: NATCH			Diago 140.
NATCHAUG RIVER	N. BEAR HILL RD.	N	
Project No.:	Date Inspected:	Inspected by:	inspected by:
	7/29/09	T. KAHAK	D. WILLIS

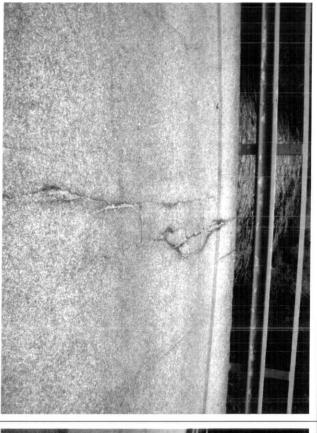


Photo # 11: TRANSVERSE CRACKS OVER PIER.

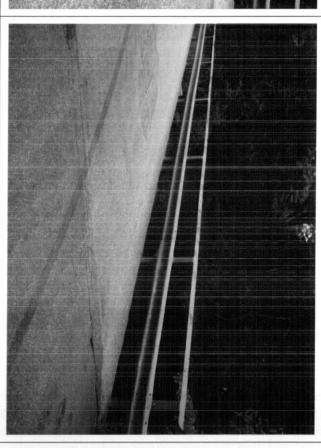


Photo # 12: TYPICAL BRIDGE RAIL.

eature Crossed: NATCHAUG RIVER			. 100
Project No.:	Date Inspected:	Inspected by:	inspected by:
	7/29/09	T. KAHAK	D. WILLIS

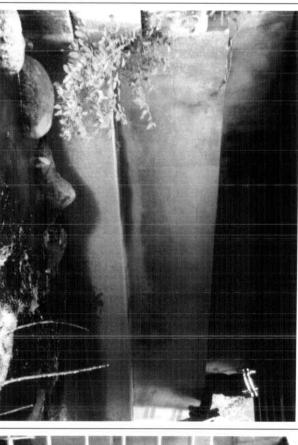


Photo # 13: TYPICAL ABUTMENT.



Photo # 14: WEST FACE OF PIER.

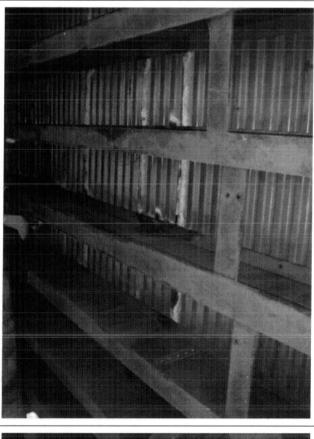


Photo # 15: UNDERSIDE.

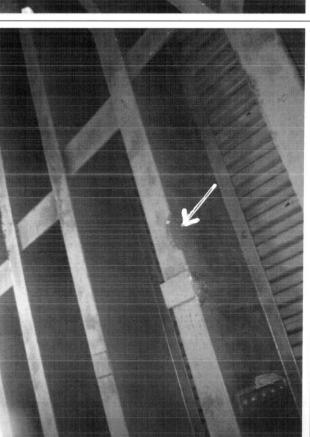


Photo # 16: BEAM # 6 IN SPAN # 1 WITH A TORCH CUT SECTION, 7 IN. X 3 IN., REMOVED FROM THE NORTHSIDE OF THE BOTTOM FLANGE, AT CENTER OF SPAN.

Feature Crossed:	Feature Carried:	Town:	Bridge No.
NATCHAUG RIVER	N. BEAR HILL RD.	CHAPLIN	04601
Project No.:	Date Inspected:	Inspected by:	Inspected by:
	7/29/09	T. KAHAK	D. WILLIS

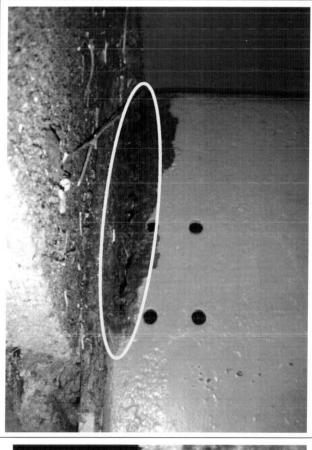


Photo # 17: BEAM # 5 NORTH FACE, OVER BEARING AREA, AT ABUTMENT # 1 WITH A 15 IN. X 1 IN. HOLE IN BOTTOM OF WEB.

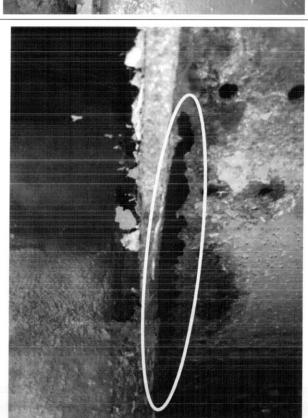


Photo # 18: BEAM # 5 SOUTH FACE, OVER BEARING AREA, AT PIER IN SPAN # 1 WITH A 33 IN. X 1¾ IN. HOLE IN BOTTOM OF WEB.

reature Crossed:	reature Carried:		I own:		Bridge No.	D :1
NATCHAUG RIVER	N. BEAR HILL RD.	NI DELLE TITLE TO	CHAPLIN	244	04601	0.4704
Project No.:	Date Inspected:	· for management	Inspected by	· for margaret	Inspected by:	
	7/29/09	I. NAIIAN	TKAHAK	D. WILLIO	D WILLIS	

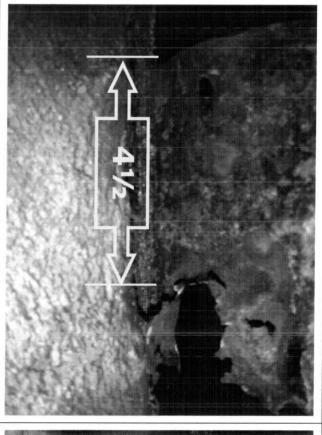


Photo # 19: BOTTOM FLANGE BEAM # 5 NORTH SIDE AT PIER, IN SPAN # 1 IN FRONT OF BEARING AREA.



Photo # 20: NORTH FACE OF HOLE IN PHOTO # 18.

Feature Crossed:	Feature Carried:	I own:	Bridge No.
NATCHAUG RIVER	N. BEAR HILL RD.	CHAPLIN	04601
Project No.:	Date Inspected:	Inspected by:	Inspected by:
	7/29/09	T. KAHAK	D. WILLIS



IN SPAN # 1 AT PIER. Photo # 21: UNDERSIDE OF FLANGE OF BEAM # 5

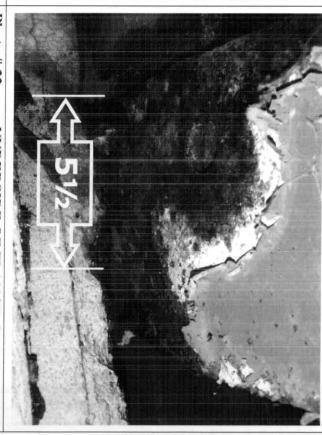


Photo # 22: AT ABUTMENT # 2. UNDERSIDE OF FLANGE OF BEAM #8

CHAPLIN N. BEAR HILL RD. NATCHAUG RIVER Inspected by: Date Inspected: Project No.:	Feature Crossed:	Feature Carried:	I OWn:	Bridge No.
Inspected by: Inspected by: Date Inspected: Project No.:	NATCHAUG RIVER	N. BEAR HILL RD.	CHAPLIN	04601
	Project No.:	Date Inspected:	Inspected by:	Inspected by:



X 4½ D. SPALL WITH EXPOSED REBAR UNDER Photo # 23: EAST FACE OF PIER WITH A 30 IN. X 15 IN. BEARING #8.

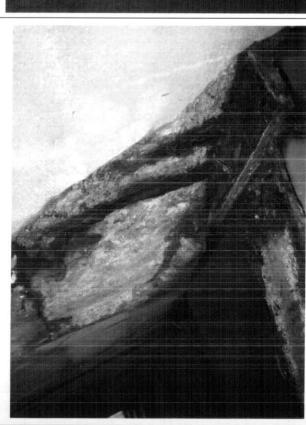
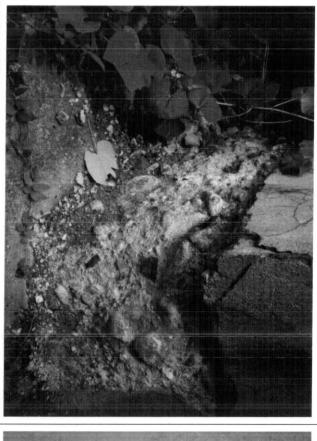


Photo # 24: 18 IN. X 41/2, OF BEARING PLATE # 8. SEE PHOTO 23. UNDERMINING,

Feature Crossed: NATCH		Town: CHAPLIN	Inspected by:
NATCHAUG RIVER	N. BEAR HILL RD.	IN	
Project No.:	Date Inspected:	Inspected by:	inspected by:
	7/29/09	T. KAHAK	D. WILLIS



3½ FT. X 15 IN. X 2 IN. D. SPALL. Photo # 25: SOUTH END OF PIER CAP WITH A

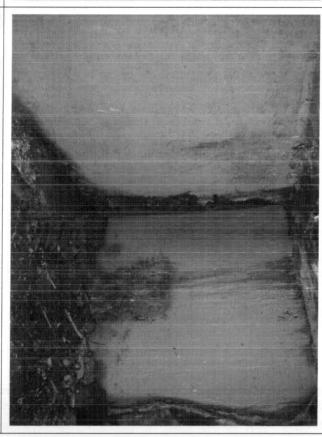


Photo # 26: ABUTMENT # 1. BEAM END # 6 NORTH FACE AT

Feature Crossed:	Feature Carried:	Iown:	Bridge No.
NATCHAUG RIVER	N. BEAR HILL RD.	CHAPLIN	04601
Project No.:	Date Inspected:	Inspected by:	Inspected by:
	7/29/09	T. KAHAK	D. WILLIS



Photo # 27: BEAM END # 7 NORTH FACE AT ABUTMENT # 1

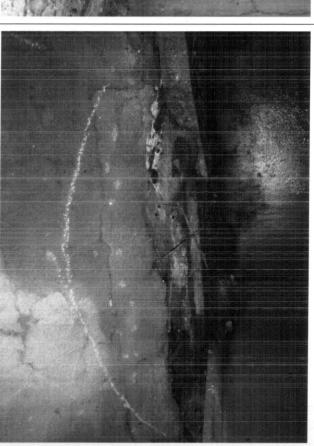


Photo # 28: 20 IN. X 3 IN. X 2½ IN. SPALL IN ABUTMENT CAP # 2.

Feature Crossed:	Feature Carried:	Town:	Bridge No.
NATCHAUG RIVER	NORTH BEAR HILL RD.	CHAPLIN	04601
Project No.:	Date Inspected:	Inspected by:	Inspected by:
	9/23/09	T. KAHAK	D. WILLIS

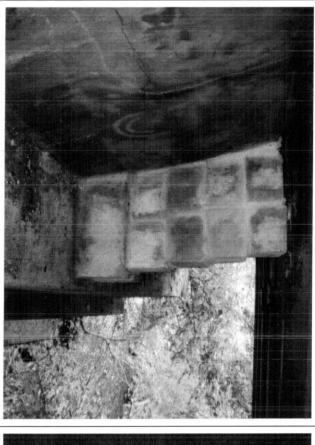
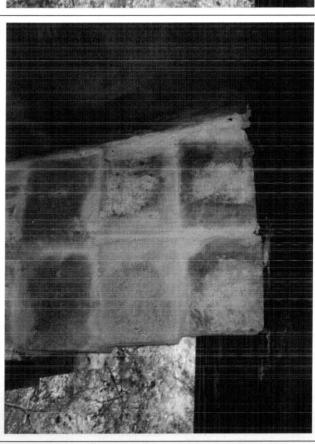


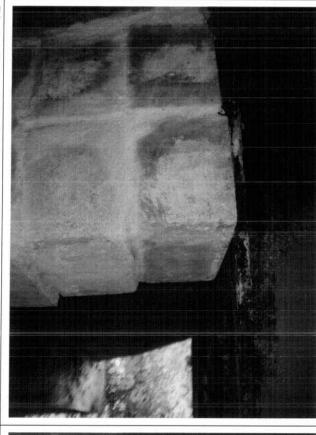
Photo # 1: CRIBBING UNDER BEAM 5 IN SPAN 1 AT PIER.



CRIBBING UNDER BEAM 5 IN SPAN 1

Photo # 2: AT PIER.

PLIN Ins I'H BEAR HILL RD. Da CHAUG RIVER Pro	Feature Crossed: NAT			
Inspected by: Date Inspected: Project No.:	CHAUG RIVER	TH BEAR HILL RD.	PLIN	
	Project No.:	Date Inspected:	Inspected by:	maputu by.



PIER. Photo # 3: CRIBBING UNDER BEAM 5 IN SPAN 1 AT

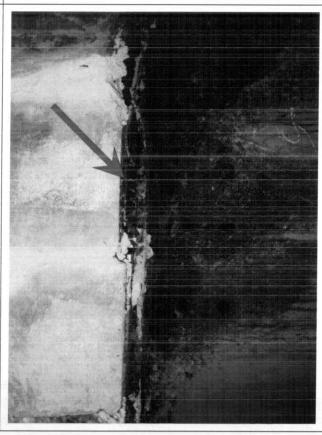
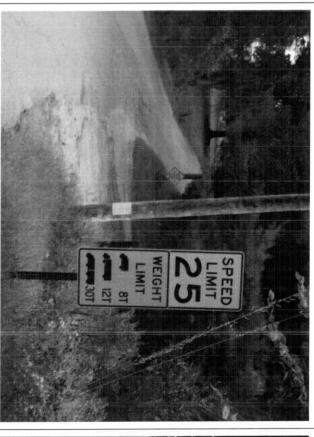


Photo # 4: UNDER BEAM 5 IN SPAN 1 AT PIER. STEEL SHIM & BLOCK ON CRIBBING

Feature Crossed:	Feature Carried:	Town:	Bridge No.
NATCHAUG RIVER	NORTH BEAR HILL RD.	CHAPLIN	04601
Project No.:	Date Inspected:	Inspected by:	Inspected by:
	9/23/09	T. KAHAK	D. WILLIS



STRUCTURE. Photo # 5: PRE-WARNING SIGN WEST OF

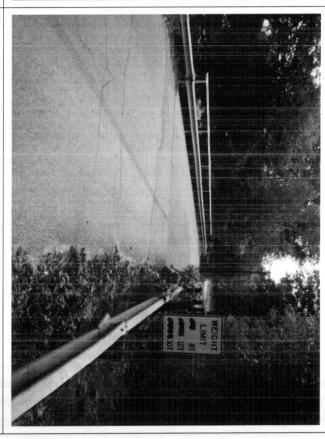


Photo # 6: WARNING SIGN WEST OF STRUCTURE.

Feature Crossed:	Feature Carried:	Town:	Bridge No.
NATCHAUG RIVER	NORTH BEAR HILL RD.	CHAPLIN	04601
Project No.:	Date Inspected:	Inspected by:	Inspected by:
	9/23/09	T. KAHAK	D. WILLIS



Photo # 7: PRE-WARNING SIGN EAST OF STRUCTURE.



Photo # 8: WARNING SIGN EAST OF STRUCTURE.

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 04601 Agency ID: 04601 Sufficiency Rating: 87.2

IDENTIFICATION

Struc Num 8:

NO BEAR HILL ROAD Location 9: .4 MI FROM JCT ROUTE 198 Facility Carried 7:

Rte.(On/Under)5A: Route On Structure Rte. Signing Prefix 5B: 5 City Street

Level of Service 5C: 0 None of the below Rte. Number 5D:

Directional Suffix 5F: 0 N/A (NBI) % Responsibility 0

SHD District 2: 02 County Code 3: 15

Place Code 4 CHAPLIN Mile Post 11: 1.730 mi

Feature Intersected 6: NATCHAUG RIVER

Longitude 17: Missing

Border Bridge Number 99: NA

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans 46: 0 Number of Spans Main Unit 45: 2

Main Span Material/Design 43A/B:

02 Stringer/Girder

Deck Type 107: 6 Corrugated Steel 6 Bituminous Wearing Surface 108A:

Membrane 108B: 0 None

Deck Protection 108C

AGE AND SERVICE

Year Reconstructed 106: 1990

Type of Service on 42A: 1 Highway

Type of Service under 42B:

Lanes on 28A: 2 Lanes Under 28B: 0

5 Waterway

Detour Length 19: 0.6 mi Truck ADT 109: 5 % Year of ADT 30: 1993

GEOMETRIC DATA

Length Max Span 48: 36.0 ft Structure Length 49: 75.0 ft Curb/Sdwlk Wdth L 50A: 0.0 ft Curb/Sidewalk Width R 50B: 0.0 ft Width Curb to Curb 51: 23 4 ft Width Out to Out 52: 24.1 ft

Approach Roadway Width 32: 18.0 ft Median 33: 0 No median

(w/ shoulders)

Deck Area: 1,808.3 sq. ft Structure Flared 35: 10.00=

Minimum Vertical Clearance Over Bridge 53: 328.1 ft

Minimum Vertical Underclearance Reference 54A:

Minimum Vertical Underclearance 54B:

Minimum Lateral Underclearance Reference R 55A: N Feature not hwy or RR

Minimum Lateral Undrclearance R 55: 327.8 ft

Minimum Lateral Undrolearance L 56:

INSPECTION 08 7/20/2009 Next Inspection: 07/29/2011 Inspection Date 90 FC Frequency 92A: NA FC Inspection Date 93A: Next FC Inspection: UW Frequency 92B: NA UW Inspection Date 93B: NA Next UW Inspection: NA SI Frequency 92C: NA SI Date 93C:

CLASSIFICATION

0 Not a STRAHNET hwy Parallel Structure 101: No || bridge exists

Direction of Traffic 102: 2 2-way traffic Temporary Structure 103: NBIS Length 112: Highway System 104: 0 Not on NHS Long Enough Toll Facility 20: 3 On free road Functional Class 26:

Historical Significance 37: 5 Not eligible for NRHP

Owner 22: 3 Town/Township Hwy Agency Custodian 21: 3 Town/Township Hwy Agency

CONDITION

Deck 58: 5 Fair Super 59: 4 Poor Sub 60: 5 Fair

Culvert 62: N N/A (NBI) Channel/Channel Protection 61: 6 Bank Slumping

LOAD RATING AND POSTING

Inventory Rating Method 65: 2 AS Allowable Stres Operating Rating Method 63: 2 AS Allowable Stress

Inventory Rating 66: HS20.6 Operating Rating 64: HS30.0

Design Load 31: 0 Other or Unknown Posting 70: 5 At/Above Legal Loads

Posting status 41: A Open, no restriction

APPRAISAL

Bridge Rail 36A: 0 Substandard Approach Rail 36C: 0 Substandard Transition 36B: 0 Substandard Approach Rail Ends 36D: 0 Substandard

Str. Evaluation 67:

Underclearance, Vertical and Horizontal 69:

Waterway Adequacy 71: 6 Equal Minimum Approach Alignment 72 5 Above Tolerable

Scour Critical 113: 6 Calcs not made

PROPOSED IMPROVEMENTS

Bridge Cost 94: S 1 Type of Work 75: 38 Other Structural Roadway Cost 95: Length of Improvment 76: 20.0 ft Total Cost 96: Future ADT 114: 200 Year of Future ADT 115:

Year of Cost Estimate 97: 1999

NAVIGATION DATA

Navigation Control 38: 0 Permit Not Required

Vertical Clearance 39: 0.0 ft Horizontal Clearance 40: 0.0 ft

Pier Protection 111: Unknown (NBI) Lift Bridge Vertical Clearance 116:

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
UNIT0	30/3	Corrug/Orthotpc Deck	(SF)	1,808	0 %	. 0	100 %	1,808	0 %	0	0 %	0	0 %	0
UNIT0	107/3	Paint Stl Opn Girder	(LF)	646	0 %	0	53 %	341	46 %	299	0 %	0	1 %	7
UNIT0	210/3	R/Conc Pier Wall	(LF)	30	0 %	0	0 %	0	100 %	30	0 %	0	0 %	0
UNIT0	217/3	Other Mtl Abutment	(LF)	59	92 %	52	9 %	7	0 %	0	0 %	0	0 %	0
UNIT0	311/3	Moveable Bearing	(EA)	18	0 %	0	0 %	0	100 %	18	0 %	0	0 %	0
UNIT0	313/3	Fixed Bearing	(EA)	18	0 %	0	0 %	0	100 %	18	0 %	0	0 %	0