TOWN OF GLASTONBURY BID NUMBER GL-2012-15

ADDENDUM NO. 1

Contract Documents for REPLACEMENT OF BRIDGE NO. 04121 ADDISON ROAD OVER SALMON BROOK GLASTONBURY, CONNECTICUT

Anchor Engineering Services, Inc. March 12, 2012

TO ALL BIDDERS:

All instructions and clarifications contained in this addendum shall be reflected in the Bid and will be made a part of the Contract Documents if and when the Contract is awarded.

The following questions have been raised by potential bidders on the project:

Question #1:	Are there plans available of the existing bridge, and if so, can they be posted on the website or can they be obtained directly from the Town?
Answer #1:	Plans of the existing bridge are not available at the Town. The latest Bridge Inspection Report has been posted on the website.
Question #2:	Will the MDC provide measures to take the existing water main out of service during the construction of the proposed bridge in the same manner as the Gas co. will with the existing gas main? Or will the existing water main remain in service and need to be temporarily supported and then relocated when a sufficient length of bridge is in place?
Answer #2:	The MDC will cut and cap the existing water main as shown on the plans. The portion of water main to be relocated will remain out of service during the construction.

- Question #3: Please provide the volume of flow the Contractor must maintain for Item #1401054A Handling Sanitary Sewer.
- Answer #3: Bypass pumping shall be sized to handle 900 gallons per minute peak wet weather flow. If the pumping equipment is to run during overnight hours, the pumps shall be critically silenced to produce less than 70 dBA at thirty feet to minimize impact to adjacent residences.
- Question #4: Article 20.01 under the Special Conditions states the Town will perform in place compaction testing. Item #205100A Earth Trench Excavation and Backfill under Compaction Testing states "When in the opinion of the Engineer, such tests are necessary, the Contractor shall have compaction tests taken by an improved independent laboratory." Please clarify which party is responsible for compaction testing for the project.
- Answer #4: The Town will provide the necessary compaction testing.

- Question #5: The contract specification contains several critical construction milestone dates. In order to properly establish a construction schedule, could you please furnish an anticipated construction start date.
- Answer #5: Anticipated date of contract award is April 15th, 2012. The anticipated construction start date is dependent on the Contractor's schedule for procuring materials and mobilizing to the site.
- Question #6: Will working behind turbidity curtains constitute confinement for the installation and removal of cofferdams thereby allowing this work to be accomplished outside the June 1st to September 30th window for unconfined in stream work?
- Answer #6: Turbidity curtains do not constitute a suitable confinement to drive sheets. But alternate types of cofferdams to create a confinement are possible as discussed in the CT DEP Inland Fisheries Division Habitat Conservation and Enhancement Program Stream Crossing Guidelines; Excerpt shown is from page 9. (see: <u>http://www.nae.usace.army.mil/reg/Stream/CT StreamCrossingGuidelines.pdf</u>: "...In inland waters, unconfined¹ instream construction activities associated with either bridge/culvert installation and rehabilitation projects should only be *allowed* from the period *June 1 through September 30*, inclusive (Figure 10). Conversely this means a prohibition of unconfined instream construction activities from October 1 through May 30. Cofferdam installation may be allowed outside this window if construction techniques do not involve streambed excavation or sheetpile installation...")
- Question #7: Plan sheet 11 of 32 indicates the utility pole in the immediate vicinity of end wall No. 1 is to be relocated. Where is the new location of this pole?
- Answer #7: It is anticipated that the new pole will move approximately 15 feet to the northwest and a taller pole be installed at this location and the next pole to the south to enable the overhead facilities to be installed higher. This relocation work is anticipated to begin prior to the bridge construction start.
- Question #8: Paragraph 11.04 and Paragraph 21.00 of the special condition appear to be in conflict. Please clarify
- Answer #8: Section 21.00 of the Special Conditions allows for work on weekends or extended work hours if specifically authorized by the Town. The Contractor must successfully demonstrate that extended work hours are necessary to complete the work within the allotted timeframe rather than providing additional resources.
- Question #9: The South Elevation on Sheet 14 shows both bottom of footing and top of bedrock at Elevation 85 with cofferdam and underwater concrete below the top of bedrock for Abutment No.2. The North Elevation on Sheet No. 15 shows top of bedrock at Elevation 85 at the bottom of the underwater concrete for Abutment No.2. The Elevation and Sections on Sheet No. 17 for Abutment No. 2 show the Bottom of Footing, Top of bedrock and Bottom of underwater concrete all at Elevation 85. Please clarify at what Elevations the bottom of footing and the bottom of underwater concrete are to be placed at for Abutment No.2. Is it the intent to remove competent bedrock underwater at Abutment No.2 to place underwater concrete?
- Answer #9: Boring B2, which encountered bedrock at El. 85.3, was drilled approximately 6 feet behind Abutment No. 2. There is indication that the top of bedrock slopes from

this elevation as it approaches the streambed, and therefore would be below the bottom of footing El. 85.00 by the time it approaches the limits of the abutment and wingwall footings. Within the limits of cofferdam, the difference in elevation between top of bedrock and bottom of footing should be filled with underwater concrete as shown. However, if competent bedrock is found to exist above El. 85.00 within the limits of the footings, it must be removed to El. 85.00 to allow the full thickness of the footing to be poured.

The approved Flood Management Certification has been received by the Town and a copy is attached as part of this addendum.

Attached as part of this addendum are:

- 1) The Flood Management Certification approval for this project;
- 2) The latest Bridge Inspection Report for the bidders' information only.

END OF ADDENDUM NO. 1



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION RECEIVED 2800 BERLIN TURNPIKE, P.O. BOX 317546 NEWINGTON, CONNECTICUT 06121 FEB 17 AM 10: 44 Phone: TOWN MANAGER



February 14, 2012

Mr. Richard J. Johnson Town Manager Town of Glastonbury 2155 Main Street Glastonbury, CT 06033

Dear Mr. Johnson:

Subject: Flood Management Certification Local Bridge Project No. 9053-4121 Replacement of Bridge No. 04121 Addison Road over Salmon Brook Town of Glastonbury

In accordance with the Memorandum of Understanding between the Connecticut Department of Transportation (Department) and the Connecticut Department of Energy and Environmental Protection (DEEP) regarding flood management certifications for municipal projects, the Department has completed the review of the flood management certification prepared and submitted for the Town of Glastonbury for the subject project. The certification states that the proposed activity is consistent with all applicable standards and criteria established in Section 25-68d(b) of the Connecticut General Statutes and Sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies.

The project consists of the replacement of Bridge No. 04121, a 30-foot single span bridge, crossing over Salmon Brook, as shown on the project plans, dated April 2010, and as documented in the "Hydraulic Analysis Report," and "Floodway Analysis Report," both dated September 26, 2011. A portion of the project is located within the 100-year flood zone of the Salmon Brook.

The certification is complete and approved subject to the following standard and special conditions:

Standard Conditions:

1. Time of Year Restriction on In-water Construction

- a. Between September 30 and May 31 the municipality shall not place fill, excavate material, or conduct any other construction activity in any watercourse unless such activity is confined by a cofferdam or other device which isolates such activity from the watercourse, unless the DEEP Inland Fisheries Division has given written authorization otherwise.
- b. The municipality shall not place fill, excavate material, or conduct any other activity in any watercourse stocked with fish by the commissioner or any other person, or in any tributary to such watercourse, from 12:01 a.m. on the Monday preceding the third Saturday in April through 12:00 midnight on the Sunday preceding the fourth Saturday in April.
- c. The municipality shall not place fill, excavate material or conduct any other construction activity in or adjacent to any watercourse, which activity may adversely affect anadromous fish, during the time period when anadromous fish are known or reasonably believed to be migrating in the watercourse.
- 2. Pollution Prevention/Best Management Practices

The municipality shall not cause or allow the authorized activity, including any Construction associated therewith, to result in pollution or other environmental damage and shall employ best management practices to prevent such damage. The municipality shall, in addition to employing any other best management practices necessary to prevent such damage, do the following:

a. Controlling Erosion

The municipality shall install and maintain, in optimal condition, erosion and sedimentation controls to prevent erosion and discharge of material into any waters of the state, including wetlands, as a result of the authorized activity or any construction associated therewith. Such controls shall be installed and maintained in conformity with the *Connecticut Guidelines for Soil Erosion and Sediment Control*, as revised, published by the Connecticut Council on Soil and Water Conservation pursuant to Section 22a-328 of the Connecticut General Statutes.

b. Proper Disposal of Material

All material and solid waste generated during any construction associated with such activity shall be disposed of in accordance with applicable federal, state and local law.

3. Storage of equipment/material within the flood plain should be avoided but, if absolutely necessary, the municipality will require the contractor to remove equipment and materials from the 100-year flood plain during periods when flood warnings have been issued or are anticipated by a responsible federal, state or local agency. It shall be the contractor's responsibility to be knowledgeable of such warnings when flooding is anticipated.

- 4. Work shall not be conducted in, or adjacent to, watercourses and reservoirs used as public drinking water supply sources without coordination with the water supply utility and Department of Public Health.
- 5. All temporary structures, cofferdams, and fill shall not impede the movement of flood flows and shall be removed at the completion of their use. The design of such temporary structures, cofferdams and fill shall be based on the DOT Drainage Manual, where applicable. Sheet piling that is cut one foot below existing grade shall be considered removed.
- 6. All fill shall be clean material, free of stumps, rubbish, hazardous, and toxic material.
- 7. Once work is initiated, it shall proceed rapidly and steadily until completed and stabilized in order to minimize use of temporary structures and to minimize soil erosion.

Special Conditions:

- 1. Due to the possible presence of listed species in the project area, specifically, Eastern Box Turtle, the precautions outlined in the Notice to Contractor and in the letter from DEP Wildlife Division dated May 10, 2011, both of which are included in this application package must be adhered to.
- 2. Fisheries enhancements must be conducted on site and shall be completed at the direction of DEEP Inland Fisheries Division as indicated in the Notice to Contractor.

A copy of the completed certification forms is enclosed for your records. No revisions or alterations to the approved plans are allowed without obtaining written approval from the Department of such alterations.

If you have any questions regarding this matter, please contact Mr. Michael Masayda, Transportation Principal Engineer, of the Hydraulics and Drainage Section, at (860) 594-3238.

Very truly yours,

James H. Norman, P.E.

Engineering Administrator Bureau of Engineering and Construction

Enclosure

Statewide Flood Management Certification for Federally and State Funded Municipal Projects

Attachment A: DOT

A-1: Engineering Certification

Name of Subject Facility and DOT Project Number:

Addison Road Bridge No. 04121 over Salmon Brook, Glastonbury, Connecticut CTDOT Project No. 9053-4121

Name of floodplain and watercourse:

Salmon Brook

I hereby certify, in reliance on the Municipal Official Certification, the Town Engineer / Consultant-Professional Certification, the DOT Hydraulics and Drainage Section and the DOT Environmental Planning reviews, that the above referenced project qualifies for the DEP Commissioner's approval pursuant to Section 25-68d of the General Statutes, and that the proposed activity described in this application is consistent with all applicable standards and criteria established in Sections 25-68d(b) of the General Statutes and Sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies.

Signature:

Date

Print/Type:

Transportation Engineering Administrator Bureau of Engineering and Construction

Attachment A: DOT

A-2: Hydraulics and Drainage Section Review Based on my review and reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the proposed activity described in this application is consistent with all applicable standards and criteria established in Sections 25-68d(b) of the General Statutes and Sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies. Michael Masaydo Signature: Print/Type: Michael Masayda **Transportation Principal Engineer** Hydraulics and Drainage Section **A-3: Environmental Planning Review** Based on my review and reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the proposed activity described in this application is consistent with all applicable standards found in the 2004 Connecticut Stormwater Manual, 2002 Erosion and Sedimentation Control Guidelines (as amended) and that there has been proper coordination with the Inland Fisheries Division and the Natural Diversity Database. Mimberly Lisa Signature: Kimberly Leso Print/Type: Transportation Supervising Planner Office of Environmental Planning

Statewide Flood Management Certification for Federally and State Funded Municipal Projects

Attachment B: Municipality

B-1: Municipal Official Certification		
Name of Applicant / Municipality: Town of C	Blastonbury	
DOT Project No.: 9053-4121		
Description of Proposed Project: Replaceme Salmon Brook with a new 32-foot span pro 1. The recipient of federal and/or state funding	ecast concrete a	
Name: Richard J. Johnson, Town Man		
Mailing Address: 2155 Main Street		
City/Town: Glastonbury	State: CT	Zip Code: 06033
Phone: 860-652-7500 ext.	Fax: 860-652-7	7505
Based on my review and reasonable investig responsible for preparing the information, the consistent with all applicable standards and General Statutes and Sections 25-68h-1 thr Connecticut State Agencies.	e proposed activit criteria establish	ty described in this application in the section is a section of the sections 25-68d(b) of the sections 25-68d(b) of the section of the sectio
I understand that a false statement made in the 22a-6 of the General Statutes, be punishable the General Statutes, and may also be pun Statutes.	as a criminal of	fense under Section 53a-157b o
Signature:		Date

Print/Type: .

Kichar

hinson

Chief Elected Official First Selectman Town Manager

Statewide Flood Management Certification for Federally and State Funded Municipal Projects

Attachment B: Municipality

B-2: Town Engineer / Consultant - Professional Certification			
DOT Project No.: 9052-4121			
Description of Proposed Project:			
Plan Dated and Revised Through: April 2010 and revised through November 2011			
Hydrologic and Hydraulic Study Dated: April 16, 2010 and revised through: Floodway Report-5/2011 Scour Report-5/2011 Hydraulic Report-8/2011			
I hereby certify that the prepared information and the proposed activity described in this application is consistent with all applicable standards and criteria established in Sections 25-68d(b) of the General Statutes and Sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies.			
I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes.			
Signature: Amen 1/1/2011 Date			
Print/Type: <u>Timothy J. Young</u> Professional Engineer			
P.E. Number: 19425			
Affix P.E. Stamp Here			

STRUCTURE NO. 04121

ADDISON ROAD over SALMON BROOK GLASTONBURY

Routine Inspection on 7/12/2011

Inspected by Team 4 for Area 6

TEAM:	Forwarded to TE3 Do	on Carlson	Date	7/13/2011
<u>TE3:</u>	Reviewed by TE3	DMC	Date .	2/19/11
	BMM Required		NO	11
	Town Bridge		YES	
	Rating <= 5 (Iten	ns 58,59,60 or 62)	YES .	
	Rating Change 2	or More Values	YES-No	
	Forwarded to Supervisor	SAD	Date 7/2	iln
	Forwarded to 'To Be Copied	Drawer"	Date	·/ ·
	Date BRI-19	Entered 7/19/	11	
SUPERVIS	SOR: Reviewed by Supe	rvisor	Date	
SUPPORT	C: Date Copies Made	BMM No		
	Scanned By:	Date Scanned	PDF	Box No

NBI: Yes

State of Connecticut Department of Transportation Bureau of Engineering and Construction

Structure No.	041214	Town	GLASTONBURY
Inspection Date	7/12/2011	Inspectors	TEAM 4

TABLE OF CONTENTS

Loose Forms (not bound in report)

Number of Sheets Enclosed

Maintenance Memo	1	
Flagging Memos		
PONTIS Element D	ata Collection Form	1
Plan Sheets	Already on File	

Bound Report Pages

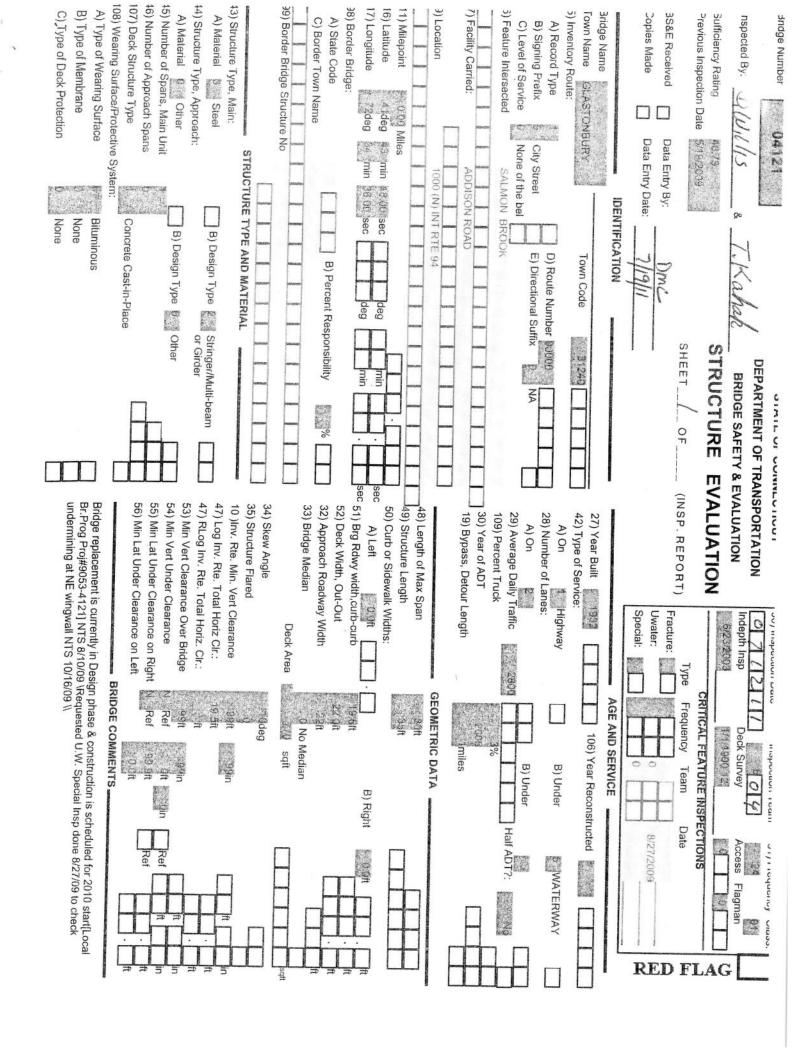
Title Cover Shee	t	1
Table of Content	S	1
Executive Summ	ary	
Field Notes		
Calculations:	Load Rating Evaluation	
	Quantities & Cost Estimate	
Photo Sheets		4
Photo Images		8

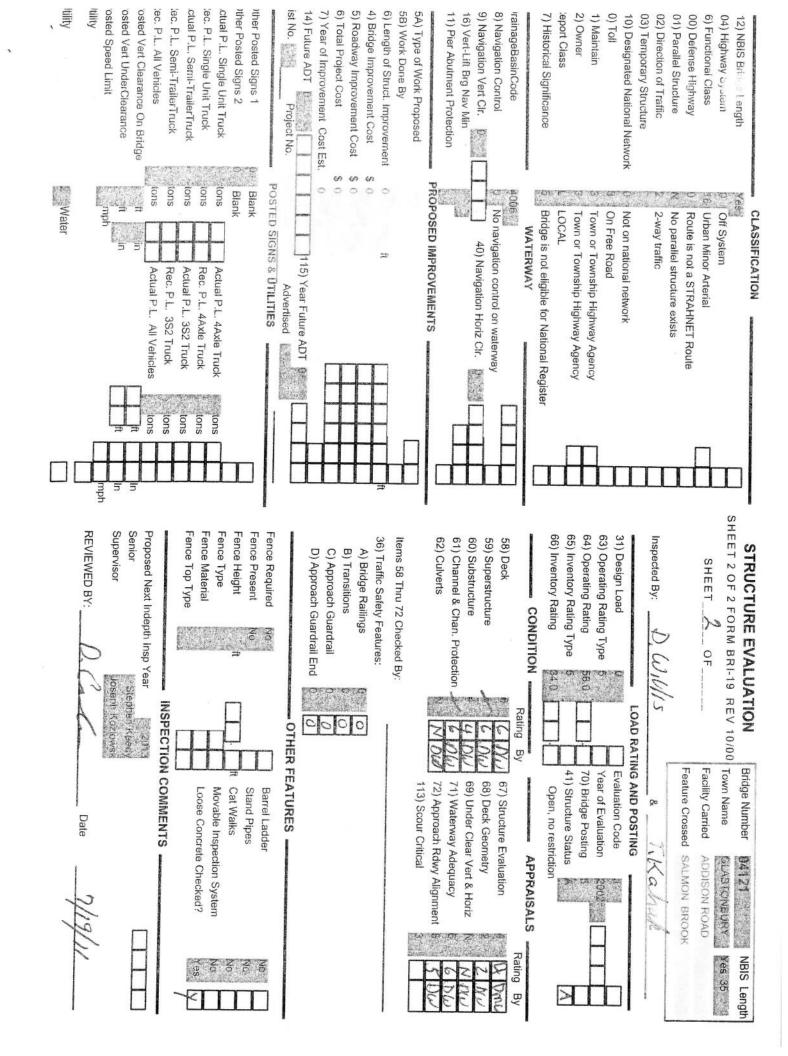
Forms

BRI-18 Bridge Inspection Report Form	8
BRI-19 Highway Bridge Inventory Form	2
BRI-10 Concrete Deterioration Worksheet	1

Comments:

SKETCHES - 4.





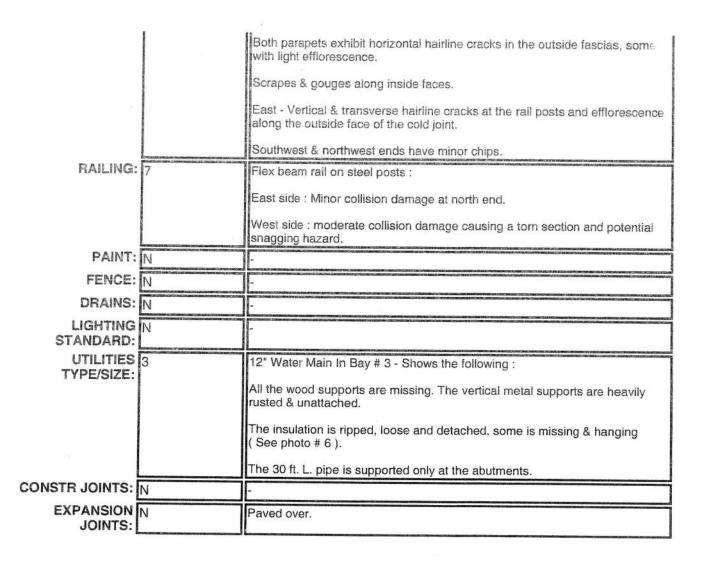
Connecticut Department of Transportation

Bridge Inspection Report BRI-18

Bridge #: 04121			Inspecti	on Date: 7/12/	2011
Inspection Type:	Routine	Previous Inspection Date:		Snooper Required:	No
Inspection Performed By:	Team 4	Feature Carried:	ADDISON ROAD	Snooper Used:	No
Town:	GLASTONBURY	Feature Intersected:	SALMON BROOK	Year Built:	1932
Location:	1000 (N) INT RTE 94	Main Design:	Stringer/Multi-beam or Girder	Year Rebuilt:	-
Main Material:	Steel				longanoon of

Visits				Inspectors:	
Visit Date:	Temp:	Start Time:	End Time:	Inspector:	Task:
7/12/2011	90	10:35:00 AM	11:20:00 AM	D. Willis	Inspector
				T. Kahak	Lead Inspector

DECK:	Reinforced Conc	rete / Bituminous Overlay Overall Rating: 6
	Rating	
OVERLAY:	7	Bituminous concrete overlay : Several transverse, longitudinal & random slightly open cracks. Bit patches and areas of map cracks.
		Two gouged areas in the west shoulder.
DECK-STR. CONDITION:		Soffit :
CONDITION:		Several mortar patches.
		Random hairline cracks with efflorescence in bay # 3 at abutment 2.
		A small spall with exposed rebar in bays 3 and 4.
		Two 1 sf. potential spalls in bay 3.
		Fascias : Horizontal & random hairline cracks with efflorescence. Efflorescence along the cold joint of the rail bases also.
		The total deterioration of the soffit is less than 1 %. See attached BRI-10.
CURBS:	N	Curb reveal : East - 20" West - 17"
MEDIAN:	N	
SIDEWALKS:	N	
PARAPET:	7	Concrete :



7/12/2011

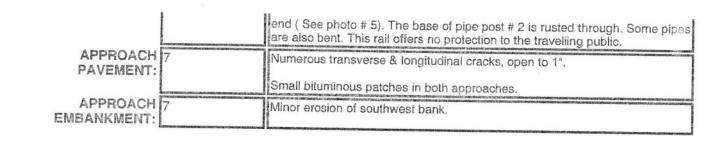
59. SUPERSTRUCTUR	4 - Concrete	Encased Steel Beams	Overall 6 Rating:
	Rating		nating:
BEARING DEVICES	: N	-	
STRINGERS	6	Beam # 1 - Horizontal cracks in the bottom flange, east	edge & a spall with
		exposed rusted bottom flange, 8 ft. long x 4 in. high x 2	deep.
		Beam # 2 - A longitudinal crack in the underside at mids 24 in. long.	span, slightly open x
		Beam # 4 - A spall with exposed heavily rusted bottom f in. high x 3 in. deep, 6.5 ft. from abutment # 1	lange, 20 in. long x 8
		The concrete encasement of all beams shows mortar pa	atches
GIRDERS:	N		
, FLOOR BEAMS:	N		
TRUSSES- GENERAL:			
TRUSSES- PORTALS:		-	
TRUSSES-	and the second se	-	
BRACING:	<u> </u>		
PAINT:	The second second second second second second second	-	
RUST:	Survey of the local division of the local di	See Stringers.	
MACHINERY MOV SPAN:	Ν	-	
RIVETS & BOLTS:	N		
WELDS - CRACKS:	N		
TIMBER DECAY:	N		
CONCRETE CRACKING:		See Stringers.	
COLLISION DAMAGE:		-	Al Conference of the Conference of the Source of the Sourc
MEMBER ALIGNMENT:	8		
DEFLECT. UNDER LOAD:		Normal	
VIBRATION UNDER LOAD:	N	Normal	
STAND PIPES:	N		
BARREL LADDERS:	N	-	
		ARE BARREL LADDERS OSHA	COMPLIANT? NA

60.	Abutment 1 - Ma									
SUBSTRUCTURE:		Overall Rating:								
	Abutment 2 - Concrete In Front Of Masonry									
	Rating									
ABUTMENTS STEM		Abutment # 1 (Masonry) :								
		Minor mortar joint cracks with efflorescence & small stone voids & cracks, mainly along the waterline.								
		Abutment # 2 (Concrete) : Large areas of light scale	on the stem.							
		A hollow area, 80" x 30", in bay # 3.								
		West face - A 4 sf. hollow area, hairline cracks with e scale totaling 1 sf.	fflorescence and severe							
ABUTMENTS- BACKWALL:	7	Concrete.								
ABUTMENTS-		Abutment # 2 - Footing exposed full length x up to 36	in. deep.							
FOOTINGS:		The upstream end appears to have a pocket undermined. See the attached Channel sheet.								
		See Erosion / Scour also.								
		The exposed portion of the footing shows severe scale with exposed rebar, up to 4" deep for full length along beveled top.								
ABUTMENTS- SETTLEMENT:		Old evidence of movement on the northwest wing. No new evidence found this inspection.								
ABUTMENTS- WINGWALLS:	6	Concrete and Masonry type wings :								
		Concrete : Exhibits areas of light scale.								
		Northwest (dry rubble) : Signs of previous movement.								
PIERS/BENTS- CAPS:	Ν	-								
PIERS/BENTS-PILE BENT:			na da anna an ann an an an ann ann ann a							
PIERS/BENTS- COLUMNS:	N									
PIERS/BENTS- FOOTING:	N									
PIERS/BENTS- SETTLMT:	N									
EROSION-SCOUR:		Scour hole at the east corner of abutment # 2 & north- footing is exposed up to 36 in. deep & is undermined end.	east wingwall, the slightly at the upstream							
		The stream bed at the scour area is sand with 6" +/- p bed throughout the channel is stones, gravel and sand	enetration. The stream d.							
	A STATE OF A DESCRIPTION OF A DESCRIPTIO	See the attched Channel sheet also.								
CONCRETE CRACK-SPALL:	6	See above items.								
STEEL CORROSION:	N									
PAINT:	V									
Ē										

TIMBER DECAY	: N										
COLLISIO			na sena su na sena sena sena sena sena sena sena s								
DEBRIS	Сположитина метеологи инистористика и на население на население и на население на н	Pigeons nesting on seats.									
	- L'anna - Carlos - C	in george neering on seats.									
			a de la managemente de la construction de la construction de la construction de la construction de la construct								
61. CHANNEL & CHANNEL	Stream Bed - Sa	and and Small Stones	6								
PROTECTION:	The channel flow	vs under a building 22 ft. upstream from the	Overall Rating:								
	bridge (see phot	0 8).									
	Rating										
CHANNEL SCOUR	6	Scour hole at the upstream end of abutment # 2. See	the Channel sheets.								
		Generally shallow water downstream.									
EMBANKMENT		Channel is made up of rubble & fine gravel & stone.									
EROSION:		Moderate erosion downstream.									
DEBRIS:	Sector and the sector of the s	Various debris & rubble in the channel under the structure.									
VEGETATION:	the second s	Minimal embankment protection downstream.									
CHANNEL CHANGE:		Freeboard - 8' 06"									
FENDER SYSTEM:	And the second se	-									
SPUR, DIKES &		-									
JETTIES: RIP RAP:	THE REAL PROPERTY AND ADDRESS OF THE PARTY O										
	14										
-	and the second state of the se										
62. CULVERTS &	-		N								
RETAINING WALL:			Overall Rating:								
and a second											
65. APPROACH CONDITION	Bituminous Paver	ment	Overall Rating: 5								
	Rating										
APPROACH SLAB:		-									
RELIEF JOINTS:	A STREET, MANUAL PROPERTY AND A STRE										
APPROACH GUIDE RAIL:	2	Flex beam rail with steel posts at southeast & northwe northeast.	est. No rail at the								
		The northwest shows collision damage.									
		Two pipe rail with pipe posts at southwest , top pipe di	soonnooted at north								
The second se		Pipe run with pipe posts at southwest , top pipe di	sconnected at north								

-

7/12/2011



TRAFFIC SAFETY FEATURES

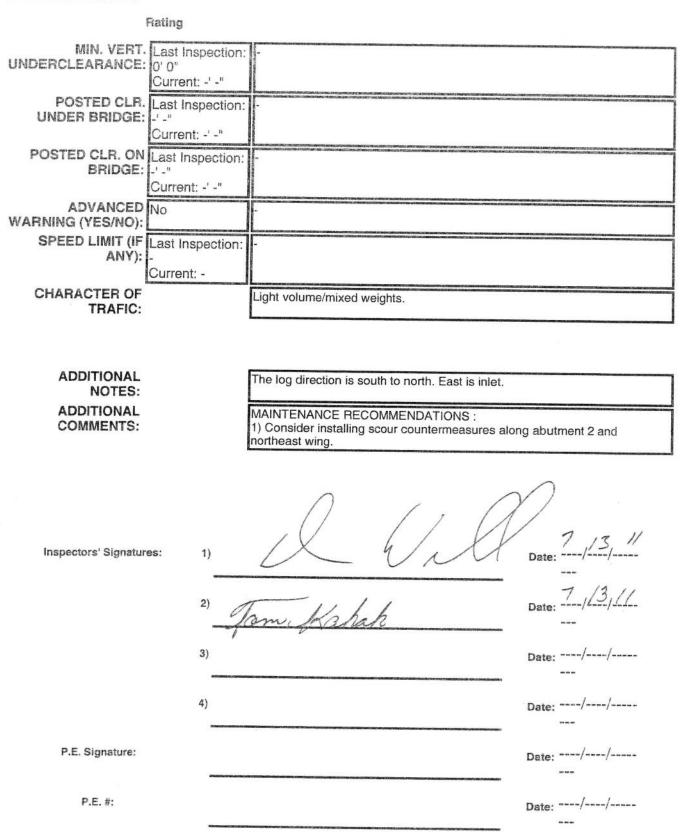
Rating

TRANSITIONS: Last Inspection: 0 Current: - APPROACH GUARDRAILS: 0 Current: - APPR. GUARDRAIL Last Inspection: -	BRIDGE RAILINGS:	0 Current: -	-
GUARDRAILS: 0		0 Current: -	
Current: -	APPROACH	Last Inspection:	
APPR. GUARDRAIL ast inspection: -			
ENDS: 0	APPR. GUARDRAIL	Last Inspection:	-
Current: -			

66. LOAD POSTING

	- Posted Loading -	
SINGLE UNIT (TONS):	Inspection: - Current: -	
SEMI TRAILER (TONS):	Last Inspection: - Current: -	-
	Inspection: - Current: -	
	Inspection: - Current: -	-
ADVANCE WARNING (Y/N):		
LEGIBILITY:	WARDARD IN THE OWNER WARDARD IN THE OWNER WARDARD	
VISIBILITY/LOCATION:	N	-

67. MISCELLANEOUS



7/12/2011

Reviewed by:

D. Caloon conndot

Date: 7,19,11

Bridge No.: 4121

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E.

21

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TRICE NORCHANGE

Marthale Chanse

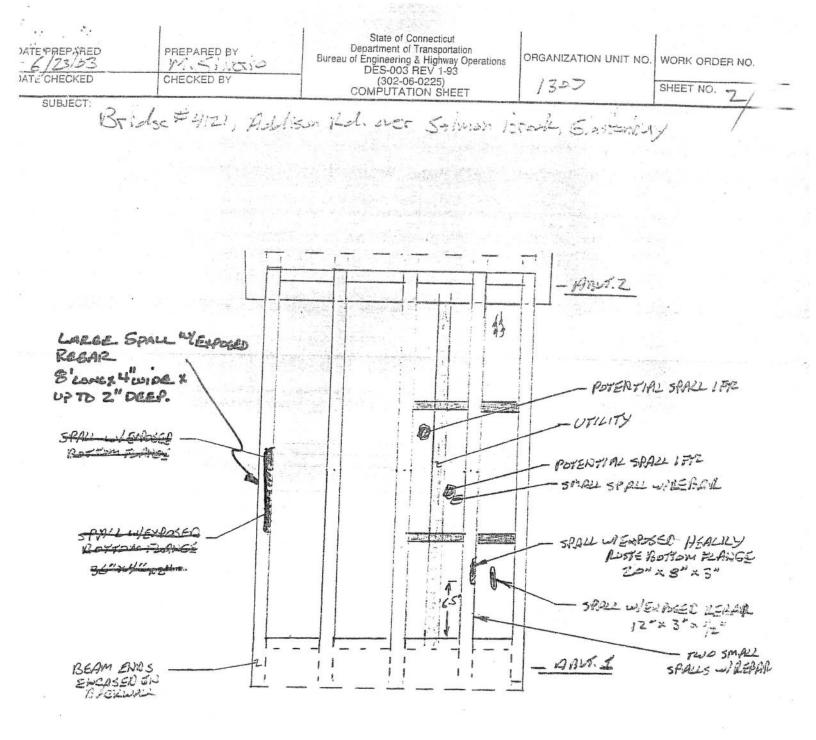
Date: 6/23/03

Prepared By: M. Silverio

Checked By:

CONCRETE DETERIORATION WORKSHEET

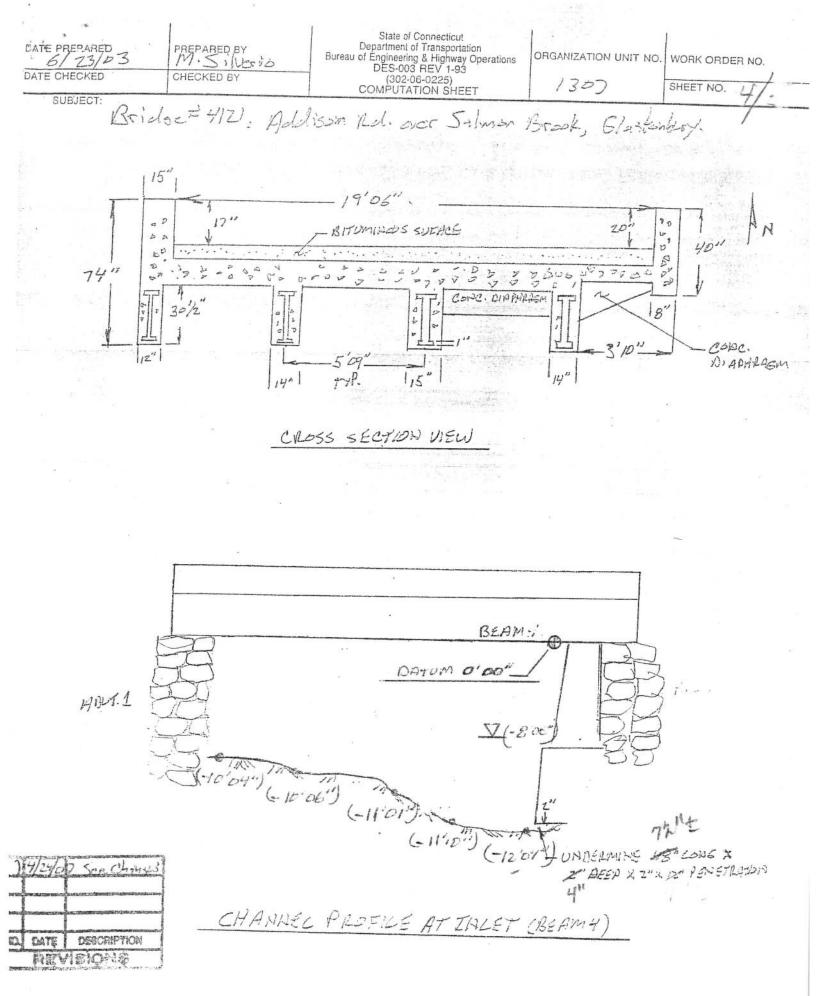
NO. DATE DESCRI	IPTION			ti ali di seri di seri di Second	Dete	rioration	Di Caa			: 1 ₂₀)		3-45 ⁴
REVISION	16]						Span Nu		juare Fee	t		
Deterioratio	on Type	1	2	3	4	5	1					1
		Top:	Top:	 		1	6	- 7	8	9	10	Total
					Top:	Top:,	Тор:	Top:	Top:	Top:	Top:	Тор:
Spalled and Delaminated		Both	lot .	Bot	Bot	Bot:	Bot:	Bot	Bot	Bot	Bati	Bot: Z·3
	т	op: . T _c	יקי:	Тор:	Top:	Τορ:	Тор:	Tap:	Top:	Top:	Тор:	Top:
Scale (Modera Severe Only)	ite to	t Bot	: E	Bot: E	iat: ·B	ot	Bot ·	Bot .	Bot	Bot:	Bot	Bot
Cracks: w/Efflorescenc (use 6 in. width × length)	e Bot	Bot	B	DC Bo	nt: Bo	t I	Bot ·	Bot	Bot	Bot	. //	Bot: 3
w/o Efflo. (use 3 in, width x length)	Bot	Bot	Bat		Bat	Ba	-	Bot	Bot	Bot B	lat B	ot:
Map Cracking: w/Efflorescence (use full area)	. Bot	Bat	Bot	Bot	Bot	Bot	: Bi	st	Bot: E	Bot: Bo	# Bo	= .
.w/o Efflo. (use 50% of area)	Bot	Bot	Bot	Bot	Bot	Bot	Bo	= . É	3ot: Be	ot: Bot	Bot	
Honeycombed Area (only areas more than 1 1/2 in. deep)		Bot	Bot:	Bot	Bot	Bôt	Bot	B	ot: Bot	E Bot	Bot	
JOTAL	3.5				1				•		55	
Total Span Area (Square Feet)	970				<u> </u>						770	\neg
% Spalled and Delaminated on Top						1	1					4
% Deterioration on Bottom	× 10/2				•	1		1			- 19	

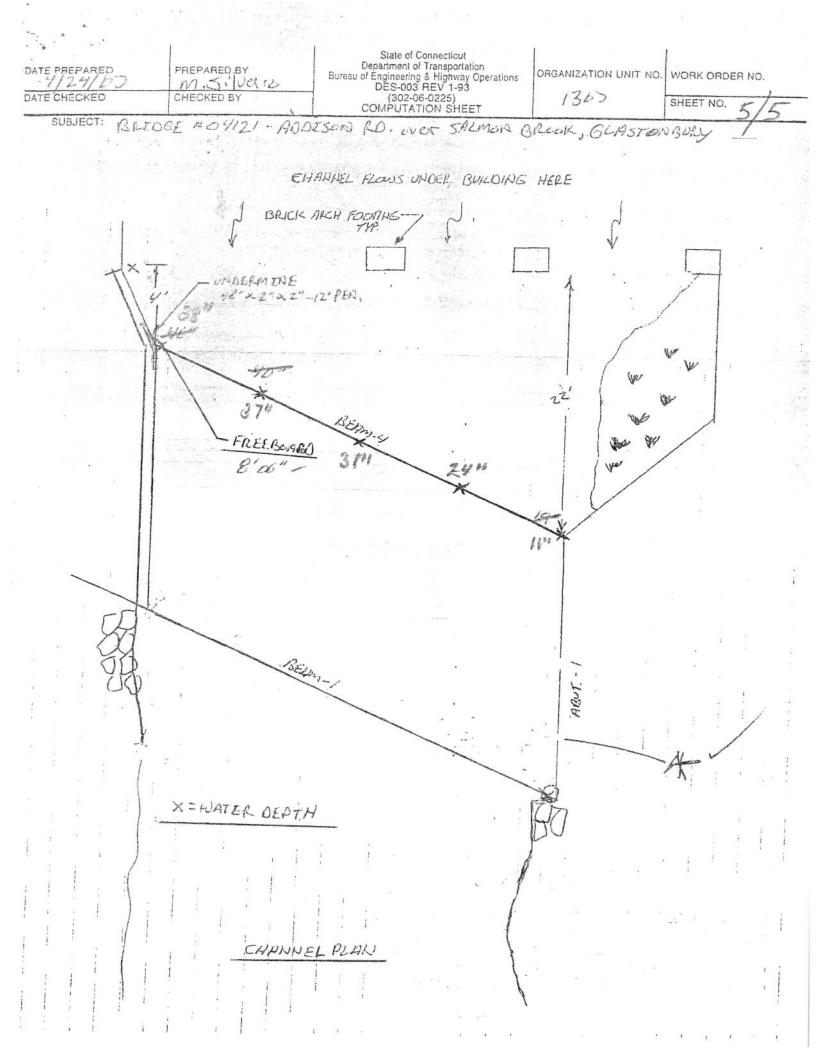


FRAMING FLAN UIEW

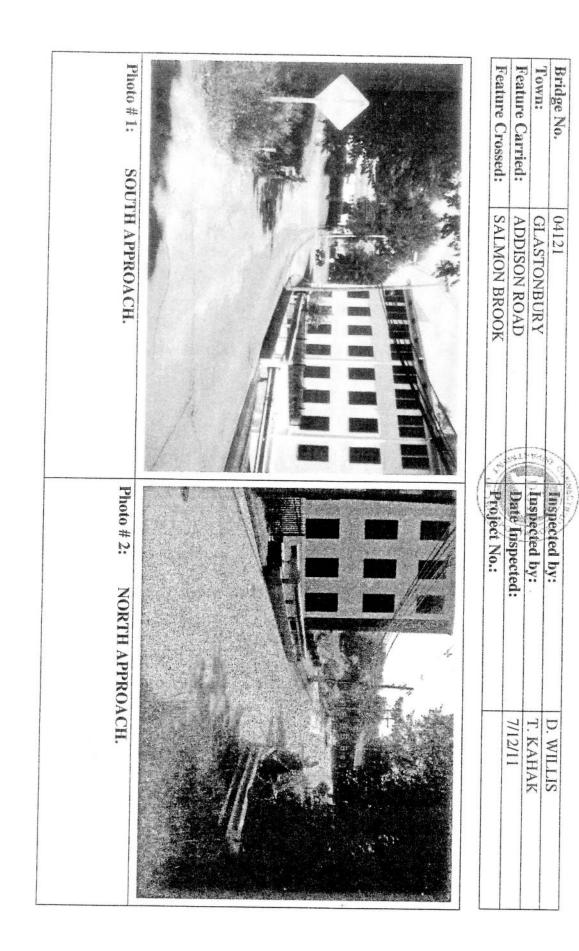
1	7/20/05	None CHANGE
2	4/24/0	?
	,	1
		tagan ang dipang pang pang dipang pang pang pang pang pang pang pang
NO.	DATE	DESCRIPTION
	REV	ISIONS

. . State of Connecticut ATE PREPARED Department of Transportation Bureau of Engineering & Highway Operations DES-003 REV 1-93 (302-06-0225) COMPUTATION SHEET PREPARED BY ORGANIZATION UNIT NO. WORK ORDER NO. Q ATE CHECKED CHECKED BY 307 SHEET NO. 2 SUBJECT: िर्माभवा Bridge Addison Rd. in Glastonburg Salmon Brook 11-1-12 Hollow Area 30 11 Abudment hasheas ale below water line lenat nent#2 Z) SEVERE SCALE TOTALENG IFT2. 600 Hollow Area 4 source Foot, EGEND ... -Hairline crack 50 Scale area ·· EFFTorescence 6 That No CHANGE 4/240) 2 Se- Change NO DATE DESCRIPTION REVISIONS Nessmer

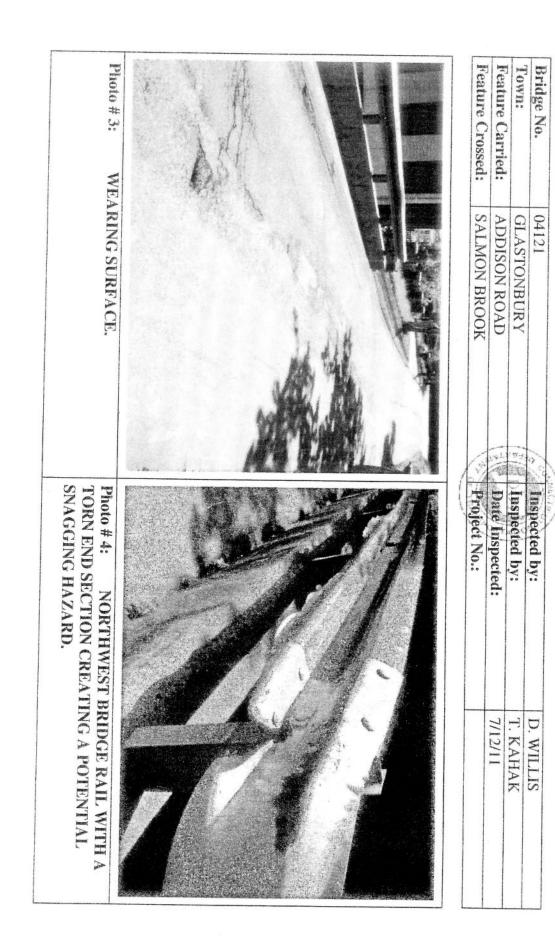




Printed on July 12, 2011 04121-11RPT



Printed on July 12, 2011 04121-11RPT



RAIL AND POSTS AT THE SOUTH WEST APPROACH OFFERS NO PROTECTION. Feature Crossed: Feature Carried: Town: Bridge No. Photo # 5: LOOSE, RUSTED AND BROKEN PIPE 04121 SALMON BROOK ADDISON ROAD GLASTONBURY Project No.: Date Inspected: THE 30 FT. L. PIPE IS AT THE ABUTMENTS. WOODEN SUPPORT BRACKETS MISSING AND PIPE INSULATION DETACHED. THE ONLY SUPPORT FOR Photo # 6: inspected by: **Inspected by:** 12 IN. WATER MAIN IN BAY 3 WITH T. KAHAK 7/12/11 D. WILLIS

Printed on July 12, 2011 04121-11RPT

Printed on July 12, 2011 04121-11RPT

Photo # 7: UNDERSIDE AND ABUTMENT 1. Feature Crossed: **Feature Carried:** SALMON BROOK ADDISON ROAD い一個 Project No .: Date Inspected: Photo # 8: 1/18 UPSTREAM VIEW. 7/12/11

Town:

Bridge No.

04121

GLASTONBURY

Inspected by: Inspected by:

T. KAHAK

D. WILLIS

Structure Inventory and Appraisal Sheet (English Units)

Facility Carried 7: 4 Rte.(On/Under)5A: 1 Level of Service 5C: Directional Suffix 5E: SHD District 2: Place Code 4: Feature Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Number 9	ICTURE TYPE ans 46: 0 Nur	Struc Num 8: 04121 Location 9: 1000@ (M Rite, Signing Prefix 5B 5 Rite, Number 5D: 00 % Responsibility: 0 County Code 3: Ha Mile Post 11: 0.0 Longitude 17: Min	4) INT RTE 94 5 City Street xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	FC Frequency 92A: 1 UW Frequency 92B: 1 SI Frequency 92C: 1	24 months NA NA 24 months	INSPE Inspection Date 90: FC Inspection Date UW Inspection Date SI Date 93C: Element Inspection CLASSI	938: NA I	Next Inspection: Next FC Inspection: Next UW Inspection: Next SI: Next Elem, Insp. Due	NA NA
Facility Carried 7: 4 Rte.(On/Under)5A: 1 Level of Service 5C: Directional Suffix 5E: SHD District 2: Place Code 4: Feature Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Code 98: Border Bridge Number 9 STRU Number of Approach Spr Aain Span Material/Desir	ADDISON ROAD Route On Structure 0 None of the below 0 N/A (NBJ) 01 GLASTONBURY SALMON BROOK Messing Unknown (P) 99: NA DCTURE TYPE ans 46: 0 Nur	Location 9: 1000 (M Rite, Signing Prefix 5B 5 Rite, Number 5D: 00 % Responsibility: 0 County Code 3: Ha Mile Post 11: 0.0 Longitude 17: Min	5 City Street 0000 artford 000 mi	FC Frequency 92A: 1 UW Frequency 92B: 1 SI Frequency 92C: 1 Element Frequency: 2	NA NA NA 24 months	Inspection Date 90: FC Inspection Date UW Inspection Date SI Date 93C: Element Inspection	7/12/2011 93A: NA 93B: NA I NA	Next FC Inspection: Next UW Inspection. Next SI:	NA NA NA
Rite.(On/Under)5A: I Level of Service 5C: Directional Suffix 5E: SHD District 2: Place Code 4: Feature Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Code 98: Border Bridge Number 9 STRU Number of Approach Spi Aain Span Material/Desi	Route On Structure 0 None of the below 0 N/A (NBJ) 01 GLASTONBURY SALMON BROOK Missing Unknown (P) 39: NA DCTURE TYPE ans 46: 0 Nur	Rie. Signing Prefix 5B 5 Rite. Number 5D: 00 % Responsibility: 0 County Code 3: Ha Mile Post 11: 0.0 Longitude 17: Mit	5 City Street 0000 artford 000 mi	UW Frequency 92B 1 SI Frequency 92C: 1 Element Frequency: 2	NA NA 24 months	UW Inspection Date SI Date 93C: Element Inspection	938: NA I	Next FC Inspection: Next UW Inspection. Next SI:	NA NA NA
Level of Service 5C: Directional Suffix 5E: SHD District 2: Place Code 4: Feeture Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Number 9 STRU Number of Approach Spr Asin Span Material/Desi	0 None of the below 0 N/A (NBI) 01 GLASTONBURY SALMON BROOK Messing Unknown (P) 39: NA JCTURE TYPE ans 46: 0 Nun	Rte, Number 5D: 00 % Responsibility : 0 County Code 3: He Mile Post 11: 0.0 Longitude 17: Mit	1000 artford 000 mi	SI Frequency 92C: 1 Element Frequency: 2	NA 24 months	SI Date 93C: Element Inspection	NA	Next SI:	NA
Directional Suffix 5E SHD District 2: Place Code 4: Feature Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Number 9 STRU Jumber of Approach Spi Alain Span Material/Desi	0 N/A (NBI) 01 GLASTONBURY SALMON BROOK Missing Unknown (P) 39: NA UNKNOWN (P) 39: NA	% Responsibility : 0 County Code 3: He Mile Post 11: 0.0 Longitude 17: Mit	artford D00 mi	Element Frequency: 2	4 months	Element Inspection			
SHD District 2: Place Code 4: Festure Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Number 9 STRU Number of Approach Spi Alain Span Material/Desi	01 GLASTONBURY SALMON BROOK Missing Unknown (P) 30: NA JCTURE TYPE ans 46: 0 Nun	County Code 3: He Mile Post 11: 0.0 Longitude 17: Mit	000 mi				Date: 07/12/2011	Next Elem. Insp. Due	
Place Code 4: Festure Intersected 6: Latitude 16: Border Bridge Code 98: Border Bridge Number 9 STRU Number of Approach Spr Aam Span Material/Desig	GLASTONBURY SALMON BROOK Missing Unknown (P) 30: NA JCTURE TYPE ans 46: 0 Nun	Mile Post 11: 0.0	000 mi	Defense Highway 100		CI ASSI			a:07/12/201
Latitude 16: Border Bridge Code 98: Border Bridge Number 9 STRU STRU Number of Approach Spr Aain Span Material/Desig	Missing Unknown (P) 30: NA JCTURE TYPE ans 46: 0 Nun		ssing	Defense Highway 10			TIONTION		
Latitude 16: Border Bridge Code 98: Border Bridge Number 9 STRU STRU Number of Approach Spr Aain Span Material/Desig	Missing Unknown (P) 30: NA JCTURE TYPE ans 46: 0 Nun		ssing		2: 0 Not		Parallel Structure 101	: No bridge e	viste
Border Bridge Number 9 STRU Number of Approach Spa Aain Span Material/Desi	Unknown (P) 39: NA JCTURE TYPE ans 46: 0 Nun		uung	Direction of Traffic 10		ay traffic	Temporary Structure		
Border Bridge Number 9 STRU Number of Approach Spa Aain Span Material/Desi	99: NA JCTURE TYPE ans 46: 0 Nur			Highway System 104		on NHS	NBIS Length 112:	Long Enough	1908 - 11
STRU Number of Approach Spa Aain Span Material/Desi	ICTURE TYPE ans 46: 0 Nur			Toll Facility 20:		free road	Functional Class 26:	16 Urban Min	
Number of Approach Sp Main Span Material/Desi	ans 46: 0 Nun)		Significand		ble for NRHP	TO OIDAN MIT	or rateries
Number of Approach Sp Main Span Material/Desi	ans 46: 0 Nun	A DUC NAATE DIAL		Owner 22			Township Hwy Agency		
	ign 43A/B:	AND MATEMIAL		Custodia	n 21		Township Hwy Agency		
Concrete									
		04 Tee Beam					DITION		
				Deck 58: 6 Satisfac	tory	Super 59: 6 S	Satisfactory	Sub 60: 4 Poor	
				Culvert 62: N N/A (N	31)	Channel/Ch	nannel Protection 61:	6 Bank Slumping	a
Deck Type 107:	1 Concrete-Cast-	n-Place			10				
Wearing Surface 108A:	6 Bituminous						AND POSTIN	2022	
Membrane 108B:	0 None			Inventory Rating Met	hod 65: 2	AS Allowable Stres	Operating Rating Me	thod 63: 2 AS Allo	wable Stres
Deck Protection 108C:	None			Inventory Rating 66:	HS16.	1	Operating Rating 64:	HS28.4	
				Design Load 31;	0 Othe	er or Unknown	Posting 70:	5 At/Above I	Legal Loads
	AGE AND	SERVICE)	Posting status 41:	A Ope	n, no restriction			
ear Built 27:	1932	Year Reconstructed 10	6: Unknown						
ype of Service on 42A:	1 Highway					ADDD	AISAL		
ype of Service under 42	B 5 Waterway			Della D. Basel			20.03.02.02.02.02		
anes on 28A: 2	Lanes Under 288:	0 Detour Leng	th 19: 0.0 mi	Bridge Rail 36A: Transition 36B:		bstandard bstandard	Approach Rail 36C:	0 Substan	
DT 29: 2,200	Truck ADT 109:	3 % Year of ADT	30: 1993			osiandard	Approach Rail Ends		
	OFOUETD	0.0.171	$ \longrightarrow $	Str. Evaluation 67:	5		Deck Geometry 68:	2 Intolerat	ble - Replac
ength Max Span 48 3	GEOMETR			Underclearance, Vert			ot applicable (NBI)		
urb/Solwik Wolth L 50A		ener medili ancerenen e	35.0 ft	Waterway Adequacy Scour Critical 113:		ual Minimum cs not made	Approach Alignment	72: 5 Above T	olerable
lidth Curb to Curb 51:			0.0 H			00 101 1100			
pproach Roadway Width w/shoulders)			0 No median		PR	OPOSED IM	PROVEMENT	S	
eck Area: 775. sq. ft				Bridge Cost 94:		\$ 1.000	Type of Work 75:	38 Other 5	Structural
kew 34: 10.00 °	Structure Flared 3	5: 0 No flare		Roadway Cost 95:		\$ 1,000	Length of Improve		
inimum Vertical Clearan	nce Over Bridge 53:	328.1 ft		Total Cost 96:	07. 107-	\$ 2,000	Future ADT 114:	2,640	
nimum Vertical Undercl	learance Reference 54/	N Feature not hw	w or RR	Year of Cost Estimate	97: 1999		Year of Future AE	OT 115: 2020	
inimum Vertical Undercl	learance 54B:	0.0 ft	10			NAVIGAT	ON DATA		
nimum Lateral Undercie	earance Reference R 5	5A: N Feature not hv	wy or RH	Navigation Control 38:	0 F	Permit Not Required	UNUAIA		
nimum Lateral Undrciea	arance R 55	.99.9 ft	1	Vertical Clearance 39:	0.0 ft		forizontal Clearance 4	0.0 ft	
nimum Lateral Undrolea	arance L 56:	0.0 ft	1	Pier Protection 111:	Unkno		.iff Bridge Vertical Clei		
ENELE OCT									
	DITION	- 11/1/							
Ir Unit Elm/Env	DITION STATE Description			Oty. St. 1 % in 2 Ot					

		the second se	1.001100.004				199,111,000	interge on the	10 111 0	Gary. OL U	101114	1 Mily. OL. 4	70 111 2	GUY. 31. 3
UNITO	13/3	Unp Conc Deck/AC Ovi	(SF)	775	0 %	0	0 %	0	0 %	0	0%	0	100 %	775
UNITO	110/3	R/Conc Open Girder	(LF)	141	100 %	141	0 %	o	0 %	0	0%	0	0 %	0
UNITO	112/3	Unpnt Stl Stringer	(LF)	141	96 %	135	4 %	7	0 %	0	0%	0	0 %	. 0
UNITO	215/3	R/Conc Abutment	(LF)	23	70 %	16	0 %	0	30 %	7	0 %	a	0 %	0
UNITO	217/3	Other Mtl Abutment	(LF)	23	100 %	23	0 %	Q	0 %	o	0 %	0	0 %	o
UNITO	330/3	Metal Rail Uncoated	(LF)	69	100 %	69	0 %	a	0 %	0	0 %	0	0 %	0
										1. ACM				-

INSP007_Inspection_SIA_English

5.5 ⁶

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