TRC

21 Griffin Rd. North
Windsor, CT 06095

T 860.298.9692
TRCcompanies.com

May 31, 2019

Mr. Adam G. Fox, P.E.
Principal Engineer
Division of Environmental Compliance
Bureau of Engineering and Construction
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Amie Maines, P.E. / Michael Bedson, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 8.07-01 (18)
HazMat Inspection – Bridge No. 06695 (Culvert/ACCMPA), Route 123 over Rose Brook, New Canaan, CT
ConnDOT Assignment No. 519-5774
ConnDOT Project No. 89-128
TRC Project No. 289951.5774.0710

Dear Mr. Fox:

TRC performed a limited hazardous materials site investigation associated with the planned rehabilitation of Bridge No. 06695 (Culvert/ACCMPA) in New Canaan, Connecticut. There were no painted surfaces identified on the bridge/culvert components scheduled for impact at Bridge No. 06695, therefore no lead paint was identified at the site. The black asphalt material inside the six (6) foot and eighteen (18) inch metal corrugated pipes, the black asphalt material on guardrail posts and the silt mesh fabric on the outside of the 18 inch corrugated pipe were sampled and all were found to contain no detectable amounts of asbestos. Laboratory results, site sketch, TRC Mobile Data Solutions report and site description/site map are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM
Senior Project Manager – Program Manager

Erik R. Plimpton, P.E., CHMM, CMC
Vice President – Engineer in Charge

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: October 2009
Supersede Previous Edition

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 53218

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
289951.5774.0710	CTDOT Bridge 06695, New Canaan, CT		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr X 3day 5day
SIGNATURE	INSPECTOR		
[signature]	C. Lemire + C. Jacko		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	1/3/18[19]	1145			18" pipe	X					SF - Black Silt Mesh Fabric
2	"	1145			"	X				X (L)	"
3	"	1130			Guardrail	X					T1 - Tar on Guard rail post
4	"	1130			"	X				X	"
5	"	1137			Corrugated pipe	X					T2 - Tar coating on corrugated pipe
6	"	1137			"	X				X	"

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	1/3/18[19]	[signature] 1/3/19			
(Printed) C. Lemire	Time: 1500	(Printed) K. Williamson 1500	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: ____
Acceptable: Yes ✓ No ____
Comments:

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #:	0053218
Project #:	289951.5774.0710
Date Received:	01/03/2019
Date Analyzed:	01/04/2019

Site: Bridge #6695, New Canaan, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Black (mesh fabric)	Yes	No	- -	- - -	ND	None
2	Black (mesh fabric)	Yes	No	- -	- - -	ND	None
3	Black (tar)	Yes	No	- -	- - -	ND	None
4	Black (tar)	Yes	No	- -	- - -	ND	None
5	Black (tar)	Yes	No	- -	- - -	ND	None
6	Black (tar)	Yes	No	- -	- - -	ND	None

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2019. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2019. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Cathryn Lemire
Cathryn Lemire, Approved Signatory

Date Issued
01/06/2019

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411
RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907
CO# AL-15020 PHIL# 461 PA#68-03387

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: 289951.5774.0710
Client Reference: CT DOT - Bridge #6695, New Canaan, CT
PO #: C289951
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 17638
Method: NOB
Date Received: 1/8/2019
Date Analyzed: 1/11/2019
Date of Report: 1/11/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other	%	%	Total %	Analyzed /	Preped /
					CHR	AMO	ACT	CRO	ANT	TRE	Non-asb.	Organic	Carb.	Asbestos	Charged	Charged
NT132851	4	Tar on Guard Rail Post		.2257	.00	.00	.00	.00	.00	.00	3.76	94.51	1.73	ND	Yes	No
NT132852	6	Tar Coating on Corrugate Pipe		.6301	.00	.00	.00	.00	.00	.00	4.64	94.33	1.03	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Mark Derosier, Analyst

SHEET NO. 1 OF 1

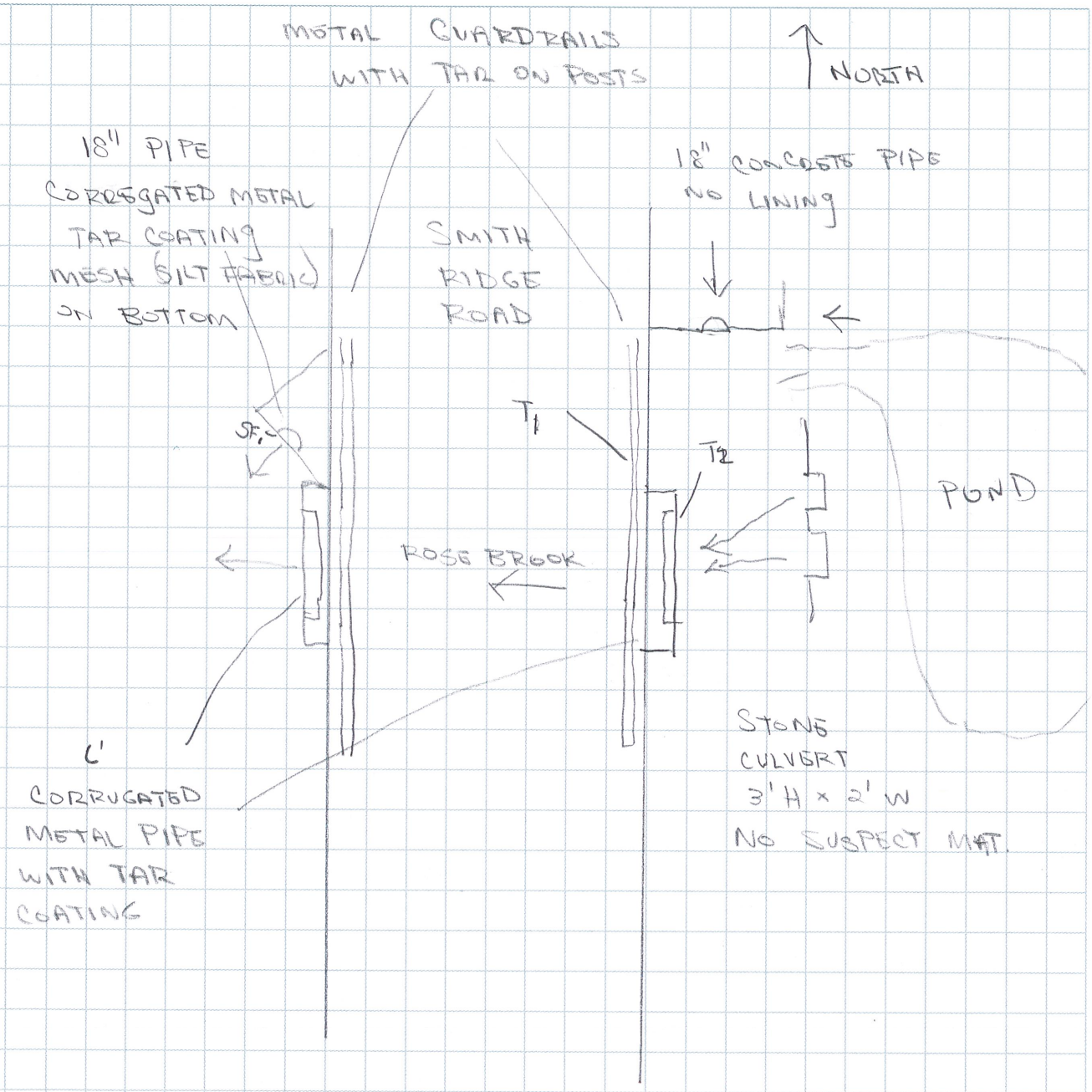
PROJECT NO. 289951.5774.0710

DATE 1/3/19

BY

CHK'D

SUBJECT NEW CANAAN CT
CONN DOT CULVERT 6695



SUSPECT MATERIALS

SF1 SILT MESH FABRIC ON WEST SIDE 18" CONCRETE PIPE

T1 TAR ON GUARDRAIL POST ON BOTH SIDES

T2 TAR COATING THROUGHOUT INSIDE OF 6' CORRUGATED PIPE AND INSIDE 18" CORRUGATED PIPE ON WEST SIDE

NO SUSPECT PAINT

A

ConnDOT, Bridge 6695 New Canaan CT, Hartford, , Plantsville, 06479, CT, US, Meriden Waterbury Tpke, 2027–2049

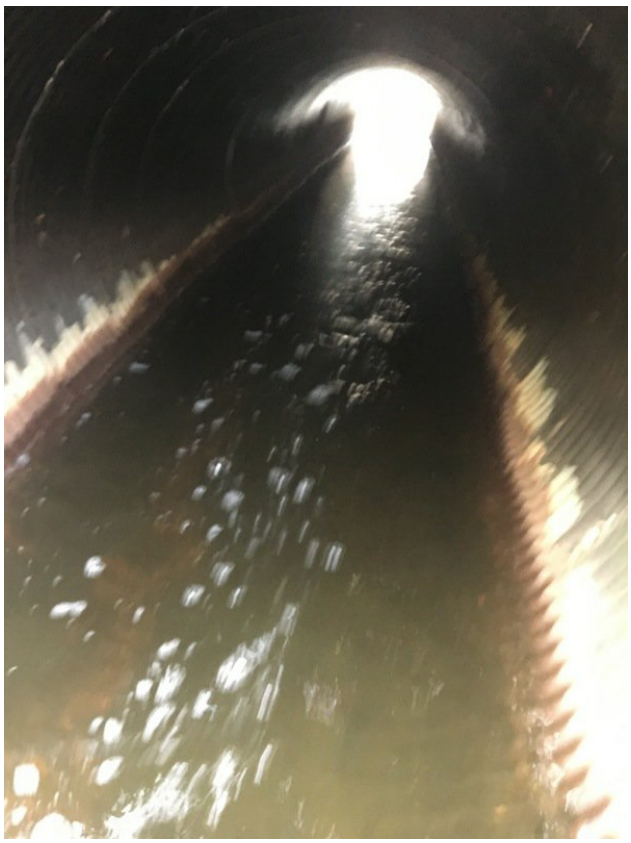
Created	2019-01-03 13:27:39 UTC by Carmen Jacko
Updated	2019-01-03 20:44:57 UTC by Catie Lemire
Location	41.5633715456739, -72.9157555103981
Status	Survey Complete

Job Information

Site Name	Bridge 6695 New Canaan CT
Address	2027–2049 Meriden Waterbury Tpke Plantsville, CT 06479
TRC Project Number	289951.5774.0710
Project Manager	Erik Plimpton
Inspector(s)	Catie Lemire, Carmen Jacko
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	3-day
TEM Turnaround Time (TAT)	3-day
Date	2019-01-03
Overview Photo	

East side

East side



East side looking westward

East side looking westward

East side at water line

East side

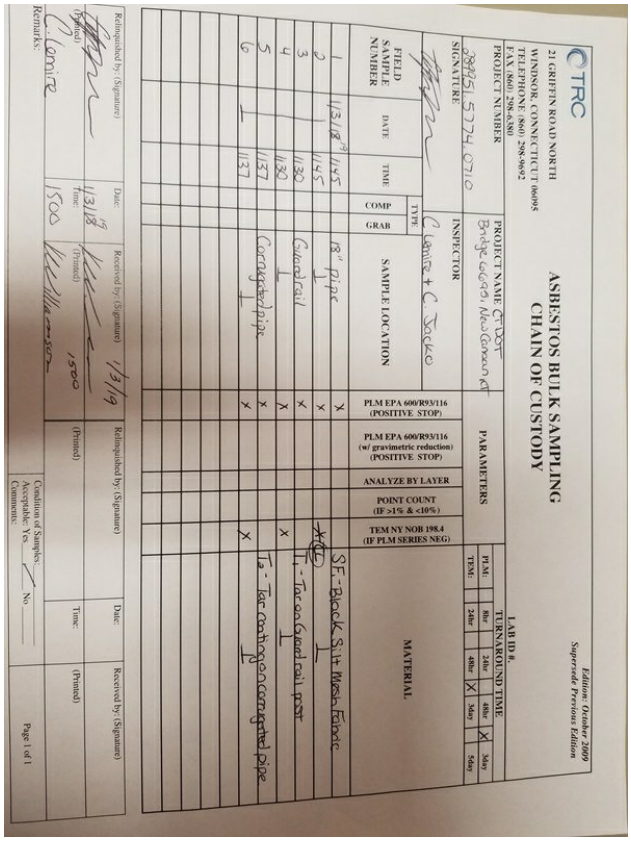
East side

East side

West side of culvert

18 inch pipe on west side with fiber lining

18 inch pipe on west side



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Edition October 2009
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ASBESTOS BULK SAMPLING
CHAIN OF CUSTODY

PROJECT NUMBER: 38251.5774.0710
PROJECT NAME: CTDOT Bridge 06691, New Gloucester
INSPECTOR: C. Lemire & C. Jacko
SIGNATURE:

LAB ID #
TURNAROUND TIME: PLM: 8hr 24hr 48hr 5day; TEM: 24hr 48hr 5day

FIELD SAMPLE NUMBER	DATE	TIME	TYP COMP	TYP GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	1/3/19	1145			18" pipe	X				X	SE - Black Silt Mass Fiber
2		1145			1	X					1
3		1130			Guardrail	X				X	FI - Tar on Gravel rail post
4		1130			1	X					1
5		1137			Corrugated pipe	X				X	TA - Tar coating on corrugated pipe
6	1	1137			1	X					1

Relinquished by: (Signature) — Date: 1/3/19 — Time: 1500 — Received by: (Signature) — 1/3/19 1500
(Printed) — (Printed)
Remarks: C. Lemire

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)
(Printed) — (Printed)

Condition of Samples: Acceptable: Yes ✓ No ____
Comments:

Page 1 of 1

Surveys Performed	Asbestos

Asbestos Section

(2), SF1, Black Silt Mesh Fabric

1, 18" pipe

Sample Number	1
Sample Location	18" pipe
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-01-03
Time	15:39

2, 18" pipe

Sample Number	2
Sample Location	18" pipe
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-01-03
Time	15:39

Material Information

Sampled or Assumed?	Sampled
Material Acronym	SF1
Material Description	Black Silt Mesh Fabric
Is Material a Non-Friable Organically Bound (NOB)	No
Total Count	(2)

(2), T1, Tar on guard rail post

Representative Photos

3, Guard rail

Sample Number	3
Sample Location	Guard rail
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-01-03
Time	15:42

4, Guard rail

Sample Number	4
Sample Location	Guard rail
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-01-03
Time	15:42

Material Information

Sampled or Assumed?	Sampled
Material Acronym	T1
Material Description	Tar on guard rail post
Is Material a Non-Friable Organically Bound (NOB)	Yes

Total Count	(2)

(2), T2, Tar on corrugated pipe

5, Corrugated pipe

Sample Number	5
Sample Location	Corrugated pipe
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-01-03
Time	15:41

6, Corrugated pipe

Sample Number	6
Sample Location	Corrugated pipe
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-01-03
Time	15:42

Material Information

Sampled or Assumed?	Sampled
Material Acronym	T2
Material Description	Tar on corrugated pipe
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	(2)

General Information

Signature

Signed 2019-01-03 20:43:24 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2019-01-03
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Cloud-based reporting is still actively being developed, but some features that are at an advanced stage of development may be used with the understanding that unexpected errors may occur occasionally. Please report any difficulties or errors to Justin Coleman.

Where should the document(s) be sent?	clemire@trcsolutions.com
Generate Documents	N/A

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

memorandum

subject: **Environmental Compliance Screening Request**
Project No. 0089-0128
F.A.P. No. – 0123(002)
Bridge No. 06695 Replacement
Town of New Canaan

date: July 5, 2017

to: Mr. Adam G. Fox
Environmental Compliance
Bureau of Engineering and Construction

from: Louis D. Bacho Louis D. Bacho
Digitally signed by Louis D. Bacho
DN: C=US, E=louis.bacho@ct.gov, O=CT Department of Transportation, OU=Consultant Design (Bridge), CN=Louis D. Bacho
Date: 2017.07.05 08:56:47-04'00'
Transportation Supervising Engineer
Bureau of Engineering and Construction

The subject bridge has been recommended for rehabilitation under the List 29 Bridge Program. A location map and preliminary preferred alternative plans for the subject bridge are attached for your use.

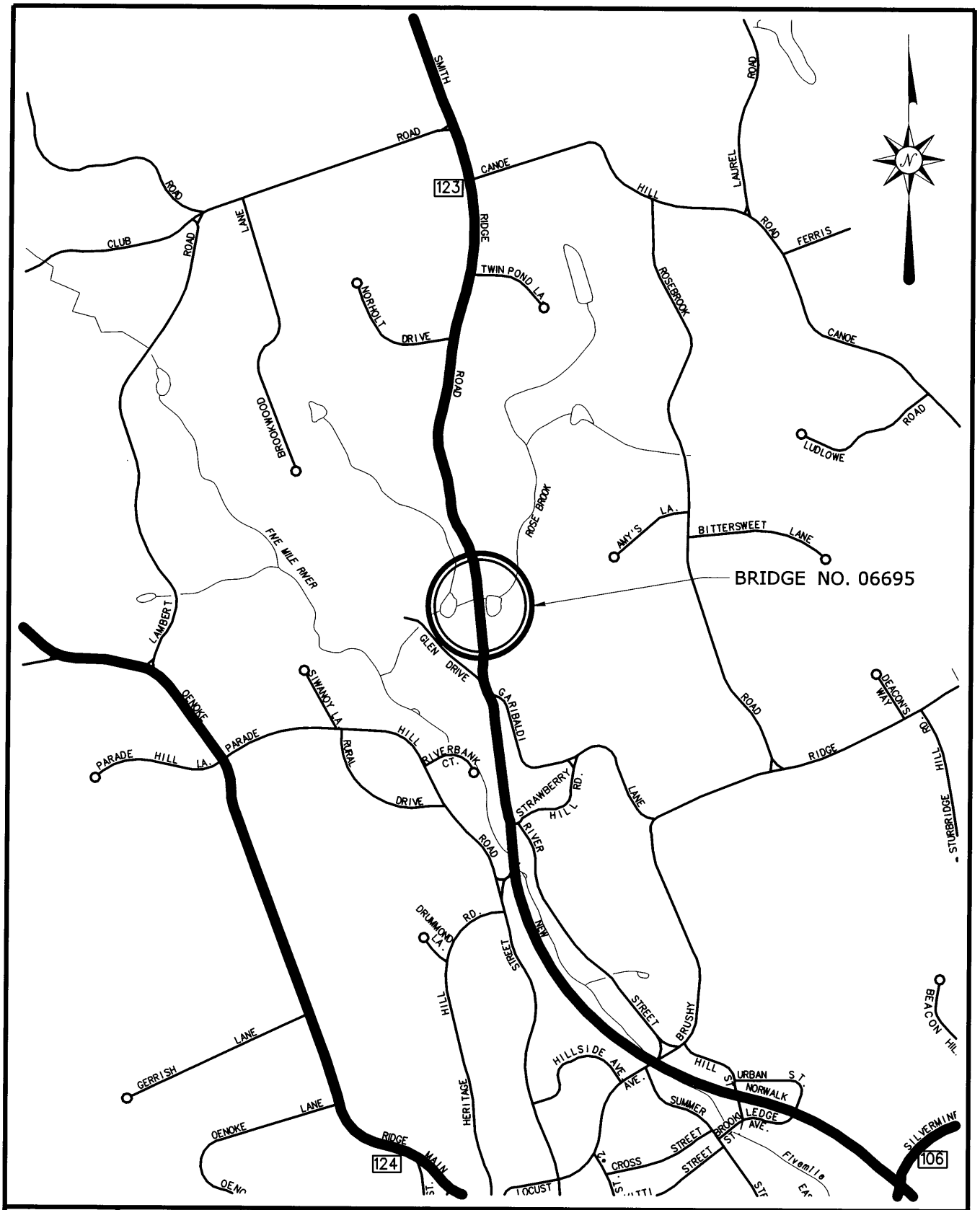
The Connecticut Department of Transportation's Bridge Safety & Inspection Unit has identified the bridge as being in need of rehabilitation. The bridge is structurally deficient due to the serious condition of the corrugated metal pipe.

The recommended rehabilitation includes replacing the culvert structure with a new precast concrete box culvert structure. The existing culvert will be removed and replaced in the same footprint as the existing bridge.

Please provide this office with the environmental screening results by August 16, 2017. Review time should be charged to the subject project number using the appropriate Core unit designation.

Please contact Susan L. Morneault, Project Engineer, at extension 2447 should you have any questions or require additional information.

Attachments
Aaron J. Foster/ajf/slm
cc: Rabih M. Barakat – Louis D. Bacho – Susan L. Morneault
Nicholas R. Giardina – Aaron J. Foster (BL Companies)



BL Companies	ROUTE 123 OVER ROSE BROOK NEW CANAAN, CONNECTICUT	LOCATION MAP	BR. NO.: 06695 PROJECT NO.: 89-128 SCALE: 1" = 1000'