



**PURCHASING DIVISION
ROOM 210 CITY HALL
142 EAST MAIN STREET
MERIDEN, CONNECTICUT 06450-8022**

**ADAM B TULIN, MPA
PURCHASING OFFICER**

PHONE 203-630-4115

ADDENDUM #002

TO THE BID FOR: B023-11 Replacement of the Cedar Street Bridge (Bridge No. 04841) Over Harbor Brook – LOTCIP Project # L079-0003

FOR: City of Meriden, Department of Public Works/Engineering

BID DUE DATE: December 29, 2022 @ 11:00 AM

The purpose of this addendum is to provide: the pre-bid sign in sheet, available plans of the downstream culvert, and the existing bridge inspection report. Please see attached for all documents.

Please acknowledge receipt of all addenda in your Bid Submission.

Bid Delivery - Bids may be dropped off prior to December 29, 2022 either in person or by courier service. At this time the City does not have the infrastructure to accept electronic proposals and therefore bids will only be accepted as directed in the Bid documents.

Please check the City of Meriden and State of Connecticut Department of Administrative Services Website often for updates. Due to the COVID19 virus, the schedule may need to be changed again because of the uncertainty of the current situation.

Adam B Tulin, MPA
Purchasing Officer
Dated: December 16, 2022

SIGN-IN SHEET FOR B023-11 – Replacement of Cedar Street Bridge LOTCIP L079-0003
City of Meriden/Engineering Department – December 14, 2022 at 10:00 AM

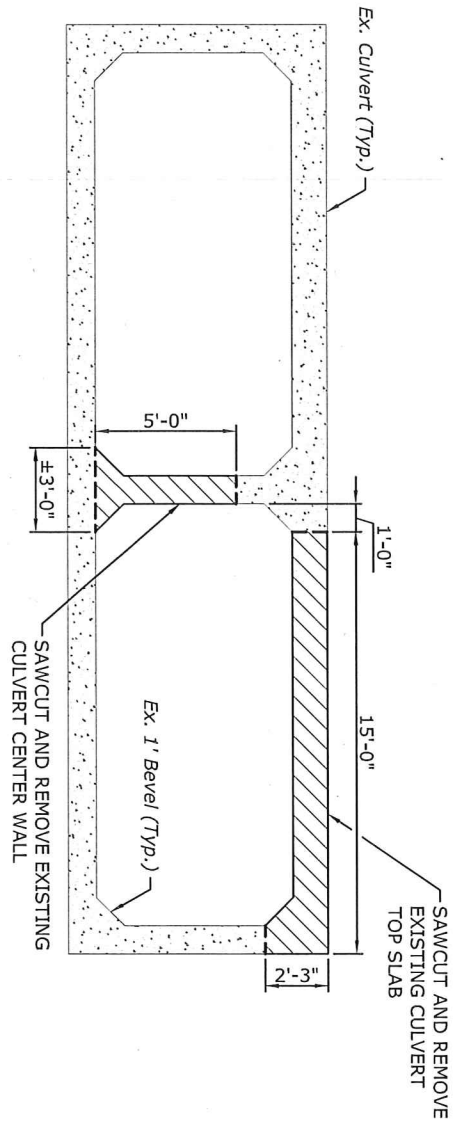
	Company Name/Your Name	Address City/State	Phone	Fax	E-Mail Contact
1	LaRosa Construction Co., Inc. Carolina Disla	1401 North Colony Meriden, CT	203-237-5409	N/A	lci@larosacc.com
2	Dayton Constr. Co., Inc. John Goodson	146 Bunker Hill Rd Watertown CT 06795	(860) 274-2998	(860) 274-6274	dcci@dayton-construction.com
3	Clayton Beldi Arborio Corporation	231 Shumpster Rd Cromwell, CT 06416	860-529-7714	N/A	engr@arboriocorp.com
4	JOHN M. BRUNELLI THE BRUNELLI CONSTR. CO.	108 SUMNER ST SOUTHINGTON, CT 06489	860-628-5587	N/A	bidding@brunelli-construction.com
5	PJF Construction	561 Park Rd 06107 West Hartford CT	860 221 5908	NA	1 860 221-5908
6	DAVID PERIN HAMMONASSET CONSTRUCTION	11 Nod Place Clinton CT 06457	860 316 8142	NA	DR.HAMMONASSET@GMAIL.COM
7					
8					

SCALE: $\frac{1}{2}"=1'-0"$

[illegible]

PRATT STREET
MERIDEN, CONNECTICUT

KP	FWW	GDJ
DESIGNED	DRAWN	CHECKED
AS SHOWN		
SCALE		
DATE		
JULY 31, 2013		
PROJECT NO.		
1261-30		
SHEET NO.		
055 OF 94		



SECTION
 SCALE: 1/4" = 1'-0"

1'-0"

15'-0"

HANDLING

DESCRIPTION DATE BY

BRIDGE NO.04841

46520 - MERIDEN
CEDAR STREET
over
HARBOR BROOK

Routine Inspection

1/19/2022

Inspected by: ATANE Engineers,



Bridge No. 04841

Cedar Street
over
Harbor Brook

Meriden

Inspected By:



Date: 1/19/2022



Personal Certification: I hereby certify that this report, including all of its contents, has been approved by me, and that I am a duly licensed professional engineer under the laws of the State of Connecticut.

Signature: _____

A handwritten signature in blue ink, appearing to read "EJ Laaso", written over a horizontal line.

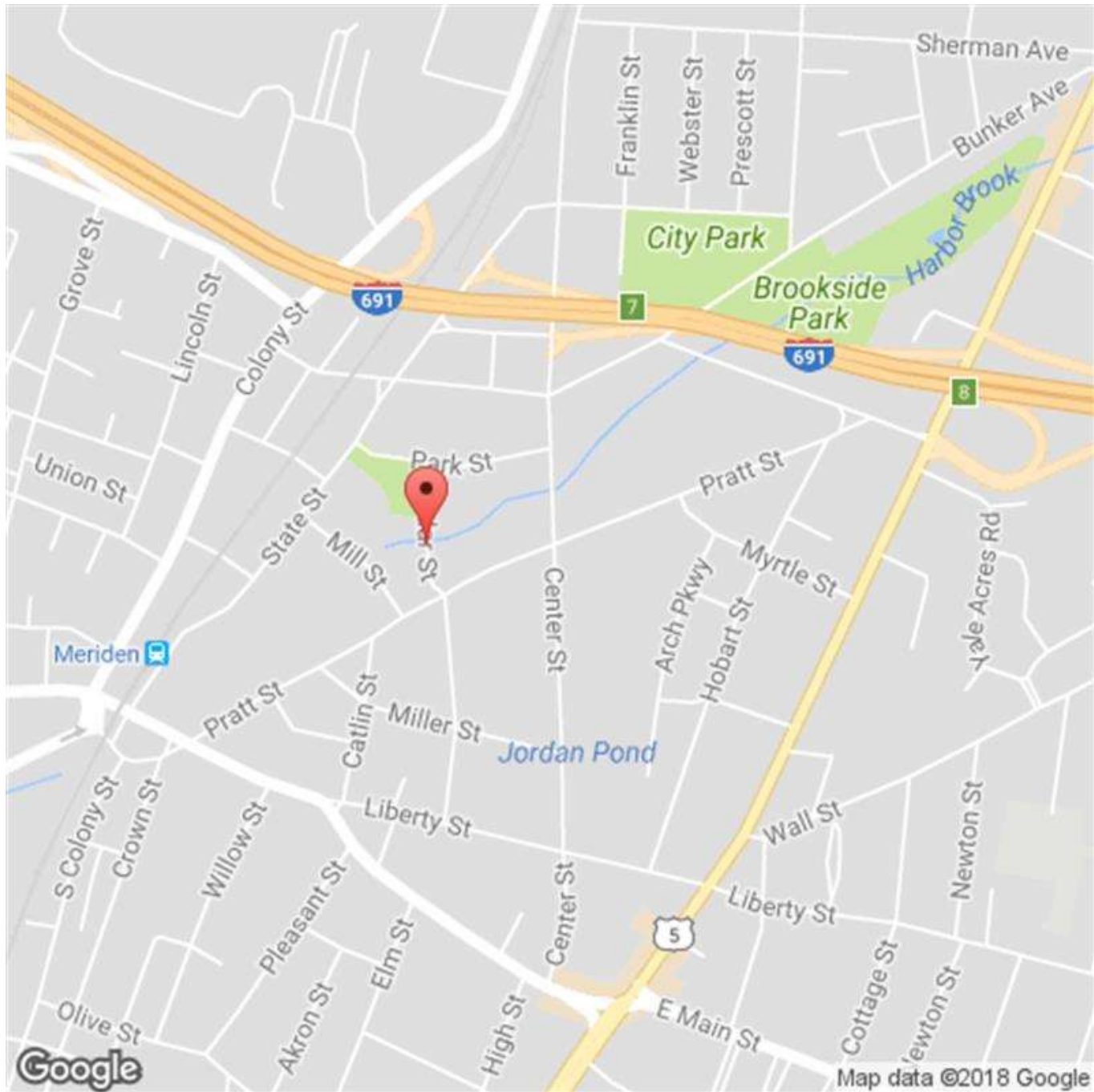
License No.: 22045

Date: 2/9/2022

Form: Location
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Location Map # 1
0.2 miles North of Pratt Street

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

STRUCTURE INVENTORY & APPRAISAL

INSPECTION

Structurally Deficient Functionally Obsolete
Sufficiency Rating
(90) Inspection Date (91) Frequency
Indepth Insp Proposed next Indepth Year
Deck Survey Date Class
Access Flagman

	Frequency	Date	Type
Fracture	<input type="text"/>	<input type="text"/>	<input type="text"/>
Underwater	<input type="text"/>	<input type="text"/>	<input type="text"/>
Special	<input type="text"/>	<input type="text"/>	<input type="text"/>

IDENTIFICATION

Bridge Name
Town Code - Name
(5) Inventory Route
(A) Record Type
(B) Signing Prefix
(C) Level of Service
(D) Route Number.
(E) Dir Suffix
(6A) Featured Intersected
(6B) Critical Facility Indicator
(7) Facility Carried
(9) Location
(11) Mile Post Miles
(16) Latitude Deg. Min. Sec.
(17) Longitude Deg. Min. Sec.
(98) Border Bridge
(A) State Code (B) Percent Responsibility %
(C) Border Town Name
(99) Border Bridge Structure No.

STRUCTURE TYPE & MATERIALS

(43) Structure Type, Main
A) Material
B) Design Type
(44) Structure Type, Approach
A) Material
B) Design Type
(45) Number of Spans, Main Unit
(46) Number of Approach Spans
(107) Deck Structure Type
(108) Wearing Surface/Protection Systems
A) Type of Wearing Surface
B) Type of Membrane
C) Type of Deck Protection
Substructure
A) Material
B) Design Type
Paint
Type
Year
Comment

GEOMETRIC DATA

(48) Length of Maximum Span ft.
(49) Structure Length ft.
(50) Curb or Sidewalk Widths
A) Left ft. in. B) Right ft. in.
(51) Bridge Roadway Width Curb to Curb ft. in.
(52) Deck Width, Out to Out ft. in.
(32) Approach Roadway Width ft.

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

(33) Bridge Median

Deck Area sq. ft.

(34) Skew Angle deg.

(35) Structure Flared

(10) Inv. Rte. Min. Vert. Clearance ft. in.

(47) Inv. Rte. Total Horiz. Clr. ft. in.

Log Inv. Rte. Total Horiz. Clr. ft. in.

RLog Inv. Rte. Total Horiz. Clr. ft. in.

(53) Min. Vert. Clearance Over Bridge ft. in.

(54) Log-Min. Vert. Underclearance ref. ft. in.

(55) Min. Lat Underclearance on Right ref. ft. in.

(56) Min. Lat Underclearance on Left ft. in.

CONDITION

(58) Deck

(59) Superstructure

(60) Substructure

(61) Channel & Channel Protections

(62) Culverts

(36) Traffic Safety Features

A) Bridge Railings

B) Transitions

C) Approach Guardrail

D) Approach Guardrail Ends

WATERWAY

Drainage Basin Waterway

(38) Navigation Control

(39) Navigation Vertical Clearance ft.

(40) Navigation Horiz. Clr. ft.

(111) Pier/Abutment Navigation

(116) Vert-Lift Brg Nav Min ft. in.

AGE AND SERVICE

Year Built (106) Year Reconstructed

(42) Type of Service

A) On

B) Under

(28) Number of Lanes

A) On B) Under

(29) Average Daily Traffic

Is Above Half ADT?

(109) Percent Truck %

(30) Years of ADT

(19) Bypass, Detour Length Miles

APPRAISALS

(67) Structural Evaluation

(68) Deck Geometry

(69) Underclearances, Vert. & Horiz.

(71) Waterway Adequacy

(72) Approach Roadway Alignment

(113) Scour Critical

COMMENTS

Cedar Street - Inventory Route Log Direction - North.

Item 29: Based on 1% increase per year.

CLASSIFICATION

(112) NBIS Bridge Length

(104) Highway System

(26) Functional Class

(100) Defense Highway

(101) Parallel Structure

(102) Direction of Traffic

(103) Temporary Structure	
(110) Designated National Network	0 - Inventory route not on network
(20) Toll	3 - On Free Road
(21) Maintain	04 - City or Municipal Highway Agency
(22) Owner	04 - City or Municipal Highway Agency
Report Class	L - LOCAL
(37) Historical Significance	5 - Not eligible for National Register

POSTED SIGNS

Other Posted Sign 1	0 - Blank		
Other Posted Sign 2	0 - Blank		
	Actual	Recomended	
Posted Load Single Unit Truck			tons
Posted Load Semi-Trailer Truck			tons
Posted Load 4 Axle Truck			tons
Posted Load 3S2 Truck			tons
All Vehicles			tons
Posted Vert. Clearance on Bridge		ft. in.	
Posted Vert. Underclearance		ft. in.	
Posted Speed Limit on Bridge	25	m.p.h.	

OTHER FEATURES

Fence Required	No
Fence Present	No
Fence Type	Blank
Fence Height	
Fence Material	Blank
Fence Top Type	Blank
Barrel Ladders	No
Stand Pipes	No
Catwalks	No
Moveable Inspection System	No
Haunches Present over Roadway	NO
Utilities	N No Utilities present

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	1177
(115) Year of Future ADT	2042
DOT Bridge Program List No	
Project No	
Advertised Date	

LOAD RATING & POSTING

(31) Design Load	0 - Unknown
(63) Operating Rating Type	0 - Field evaluation and documented engineering judgment
(64) Operating Rating	47
(65) Inventory Rating Type	0 - Field evaluation and documented engineering judgment
(66) Inventory Rating	36
Evaluation Code	E - Evaluated
Year of Evaluation	2019
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Status	A - Open

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

INSPECTOR'S SIGNATURES:

1)  Date: 02/08/2022

2)  Date: 02/09/2022

3) _____ Date:

4) _____ Date:

P.E. SIGNATURE:



Date: 02/09/2022

P.E. #

22045

Reviewed By:


David Pawlikowski, P.E.

Date: 02/15/2022

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

FIELD INSPECTION REPORT

Location: 0.2 MI N OF PRATT STREET
Main Material: 1 - Concrete
Main Design: 11 - Arch - Deck

Year Built: 1910
Year Rebuilt: 1964

Snooper Required: ☐
Snooper Used: ☐

Inspectors:

Lead Inspector: Suresh Dontula

Inspector: Task:

Dontula,Suresh BSE - Inspector

Sabato,Jason BSE - Inspector

Visits:

Visit Date: Temp: Start Time: End Time:

01/19/2022 27 08:30 AM 11:30 AM

58. DECK:

BITUMINOUS CONCRETE OVERLAY OVER FILL.

Overall Rating: N

Rating

Overlay: 7 The bituminous concrete pavement (over approximately 2' of fill material), has the following deficiencies:
- Random areas of light raveling.
- A 12.5' long x 12' wide bituminous patch at Abutment 1 has settled areas up to 4 square feet x 1" deep and cracks around the edges up to 1/4" wide.
- Paving seam in the southbound lane is open up to full length x 1/8" wide and is partially sealed.
- A 12' long x 1/4" wide longitudinal crack extends from the north approach, southbound lane.

See sheets 15 & 16 and photos 8, 9 & 21.

Deck - Str. Condition: N Reinforced concrete filled arch. There is no deck. Approach pavement is carried across the structure on top of fill material, therefore the overall deck rating will be "N".

Curbs: 6 Granite block curbs have the following:
- Edge chipping with rust stains.
- Missing/deteriorated joint mortar.
- Isolated adjacent curb sections are vertically / laterally misaligned by up to 1" and are leaning towards the roadway.

Average curb reveals: West side = 3-1/4" and East side = 5-1/8".

See sheets 15 & 16 and photos 10-14.

Median: N

Sidewalks: 6 Concrete sidewalks have the following:
- Random areas of light scaling in the old concrete .
- East sidewalk has vertical misalignment up to 1-1/2" between the 1st & 2nd panels from the south end (filled with dirt and vegetation growth). The 1st sidewalk panel from the south end has a 6" long x 1' wide x 1" deep spall.
- The south end of the west sidewalk is sloped downwards towards the curb.

Approach sidewalks have the following deficiencies:

- Areas of light scaling and transverse cracks up to 1" wide.
- The 1st panel from the bridge at the southeast corner has a full width transverse crack with a 1" vertical misalignment along the crack.
- Southeast approach sidewalk has three (3) cracks open up to 1" wide, starting from a manhole cover with the area between the cracks settled up to 1" deep.

See sheets 15 & 16 and photos 10, 11 & 13-16.

Parapet: 7 Concrete rail bases have the following:
- Random areas of light scaling.

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

	- Isolated vertical hairline cracks. - A 1' long x 6" high x 1-1/2" deep spall in the outside face of the east rail base, at the north end. See sheets 15 & 16 and photos 10 & 11.
Railing: 6	Two pipe aluminum bridge railings have the following: - Random minor dents, scrapes and isolated areas of graffiti. - Pipe rail end caps are missing at the northeast, southeast and southwest corners of the bridge. - A few bent anchor bolts. - Random anchor bolt nuts are backed off by up to 1". - Isolated anchor bolts are missing washers. - A 1/2" high gap between rail base and end post at the north end of the west railing. - East railing has a 4" diameter x 1/4" deep dent between 3rd & 4th posts from the north end. - East railing, 2nd post from the north end has a dent with a 1" long tear and a missing anchor bolt nut. - West railing has a 1" long tear in the post at the south end. See sheets 15 & 16 and photos 10, 11 & 17-19.
Paint: N	
Fence: 6	Chain-link fence along the northeast and southeast corners of the bridge. - Random areas of light rust. - East fence has a missing top pipe between the 1st & 2nd railing posts from the north end. The fence is bent out at this location. - The 3rd panel from the north end of the southeast approach fence is bent for full length x 1' deep, with bent posts. See sheets 15 & 16 and photos 16 & 20.
Drains: N	
Lighting Standard: N	
Overall Utility Condition Rating	N - Not Applicable
Utility Type/Size	N No Utilities present

Construction Joints: N	
Expansion Joint: N	
Haunches Present over travelway?	NO

APPROACH CONDITION:	
BITUMINOUS PAVEMENT	Overall Rating: 5

Rating	
Approach Slab: N	
Relief Joints: N	
Approach Guide Rail: N	
Approach Pavement: 5	Bituminous pavement. North approach pavement has the following: - A 22' long transverse crack, open up to 3" wide, 3" deep and is filled with sand. - A full width x 1" wide transverse crack with edge raveling, at 30' from the bridge. - The area around the manhole cover is settled up to 1" deep. - Northbound lane has a 3' diameter bituminous patch settled up to 3" deep with edge raveling. - Southbound lane has a 2' diameter bituminous patch settled up to 2" deep. South approach pavement has two transverse cracks up to 10' long x 3" wide, which are filled with sand

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

and three (3) bituminous patches.

See sheets 15 & 16 and photos 9, 21 & 22.

Approach Embankment: 8

Traffic Safety Features

Bridge Railings: 0 Does not meet the current standard for Non-NHS structures (open metal bridge rails).

Transitions: 0 There are no approach guiderails present.

Approach Guardrails: 0 There are no approach guiderails present.

Approach Guardrail Ends: 0 There are no approach guiderails present.

59. SUPERSTRUCTURE:

REINFORCED CONCRETE ARCH

Overall Rating: 6

Rating

Bearing Devices: N

Stringers: N

Girders: 6 The superstructure consists of an older concrete arch (built 1910) with gunite coating, and a newer ribbed concrete arch extension (built 1964) along the east side.

The older concrete arch has the following deficiencies:

- Random areas of hairline map cracking with and without efflorescence and dampness.
- Random hollow areas up to 100 square feet, primarily along the springlines.
- Isolated areas of scaling up to 4' long x 6" wide x up to 1" deep, with and without efflorescence, along the west end near Abutment 2.
- Active leakage up to 3' wide along the west edge at the crown.

The newer ribbed concrete arch extension has the following deficiencies:

- Isolated areas of honeycombing and random edge spalls up to 1/2" deep.
- Three spalls up to 1' long x 4" wide x 2" deep along the construction joint near Abutment 2.

The construction joint between the older and newer arch segments is open 1/8", with edge spalls up to 2" wide x 1" deep.

See sheet 17 and photos 23-28.

Floor Beams: N

Trusses - General: N

Trusses - Portals: N

Trusses - Bracing: N

Paint: N

Rust: N

Machinery Movable Span: N

Rivets & Bolts: N

Welds - Cracks: N

Timber Decay: N

Concrete Cracking: 6 See item above entitled "Girders".

Collision Damage: 8

Member Alignment: 8

Deflection Under Load: N (N) Normal; (E) Excessive.

Form: BRI-18, Rev. 1/14
 Inspection type: Routine
 Inspection Date: 1/19/2022
 Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
 Carried: CEDAR STREET
 Crossed: HARBOR BROOK
 Inventory Route: Non-NHS

Vibration Under Load:	N	(N) Normal; (E) Excessive.
Stand Pipes:	N	
Catwalks:	N	
Movable Inspection System:	N	
Barrel Ladders:	N	
Are Barrel Ladders OSHA Compliant?		NA

60. SUBSTRUCTURE:

REINFORCED CONCRETE ABUTMENTS

Overall Rating: 5

Rating

Abutments - Stem:	5	<p>The concrete abutment stems have the following deficiencies:</p> <ul style="list-style-type: none"> - Old concrete arch section has areas of scaling up to full length x 1/2" deep, extending from the springline to the channel bottom. - Several areas of moderate to heavy scaling, up to full length x 18" high x 3" deep in the old concrete arch section, along with isolated areas of scaling up to 18" long x 8" high x 5" deep. - A 4" long x 1' high x 7" deep void, along the construction joint between the older and newer sections at Abutment 1. <p>See sheet 18 & 19 and photos 29-32.</p>
Abutments - Backwall:	N	
Abutments - Footings:	N	Not visible.
Abutments - Settlement:	8	None observed.
Abutments - Wingwalls:	N	<p>Dry-laid stone retaining walls along the upstream channel.</p> <p>Northeast retaining wall is covered with bituminous concrete for 15' long adjacent the structure.</p> <p>Southeast retaining wall has the following:</p> <ul style="list-style-type: none"> - Near the bridge, the wall is bulging out 2' towards the channel for approximately 10' long x full wall height (a previously noted condition). - Growth of vegetation and trees along the base. - The wall has collapsed approximately 75' from the bridge (a previously noted condition). <p>See sheet 20 and photo 33.</p>
Piers/Bents - Caps:	N	
Piers/Bents - Pile Bent:	N	
Piers/Bents - Columns:	N	
Piers/Bents - Footings:	N	
Piers/Bents - Settlement:	N	
Erosion - Scour:	8	<p>Erosion: Rated - '8'.</p> <p>Scour: Rated - '8'.</p> <p>No scour noted along the abutments.</p> <p>See sheet 20.</p>
Concrete Crack - Spall:	5	See item above entitled "Abutments-Stem".
Steel Corrosion:	N	
Paint:	N	
Timber Decay:	N	
Collision Damage:	8	

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

Debris: N

61. CHANNEL AND CHANNEL PROTECTION:

HARBOR BROOK

Overall Rating: 5

Rating

Channel - Scour: 6 The channel bottom consists of sand, rocks and boulders up to 3' diameter.

Upstream channel has a 12' long x 8' wide x 1' deep scour hole.

Also see "Embankment - Erosion" below.

See sheets 20 & 21 and photos 34-36.

Embankment - Erosion: 5 The upstream channel embankments have isolated areas of erosion up to 3' high with minor undercutting and exposed tree roots.

See sheet 20 and photo 34-36.

Debris: 5 Channel has debris at the following locations:
- Previously noted fallen trees were not found.
- Timber debris and rip rap in the upstream channel, some of which is laying across the channel.
- Metal debris near the east end of Abutment 2.

See sheet 20 and photos 34-37.

Vegetation: 8 Previously noted moderate to heavy growth of vegetation / trees along the channel embankments have been removed.

See sheet 20 and photos 33, 34 & 36.

Channel Change: 6 There is no significant change in the channel alignment since the last inspection.

- A 1' high sand bar along the north end of the channel.

- The downstream channel has a 30' long x 5' wide x 6" high aggradation.

Also see 'Channel - Scour' and 'Embankment - Erosion' above.

See sheets 20 & 21 and photos 34-36.

Fender - System: N

Spur Dikes and Jetties: N

Rip Rap: N

62. CULVERTS AND RETAINING WALLS:

Overall Rating: N

Rating

Barrel: N

Concrete: N

Steel: N

Timber: N

Headwall: N

Cutoff Wall: N

Debris: N

Retaining Wall System: N

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS

Footings: N

LOAD POSTING:

Rating

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

VERTICAL CLEARANCE POSTING

Min. Vert Under Clearance:		Ft		In	The structure spans over a waterway.
Posted Clearance Under Bridge:		Ft		In	
Posted Clearance On Bridge:		Ft		In	
Advanced Warning:					
Warning At Bridge:					
Legibility:					
Visibility:					

NOTES / COMMENTS:

Character of Traffic: Light volume with mixed weights.

Additional Notes:

1. Bridge Identification Number is clear and legible.
2. Bridge is logged from south to north, which is consistent with the previous inspection report.
3. Bridge was inspected using chest-waders. An extension ladder is required to access the bridge from the top of the southeast retaining wall.
4. Harbor Brook flows from east to west.

Additional Comments:

National Bridge Elements
 Inspection type: Routine
 Inspection Date: 1/19/2022
 Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

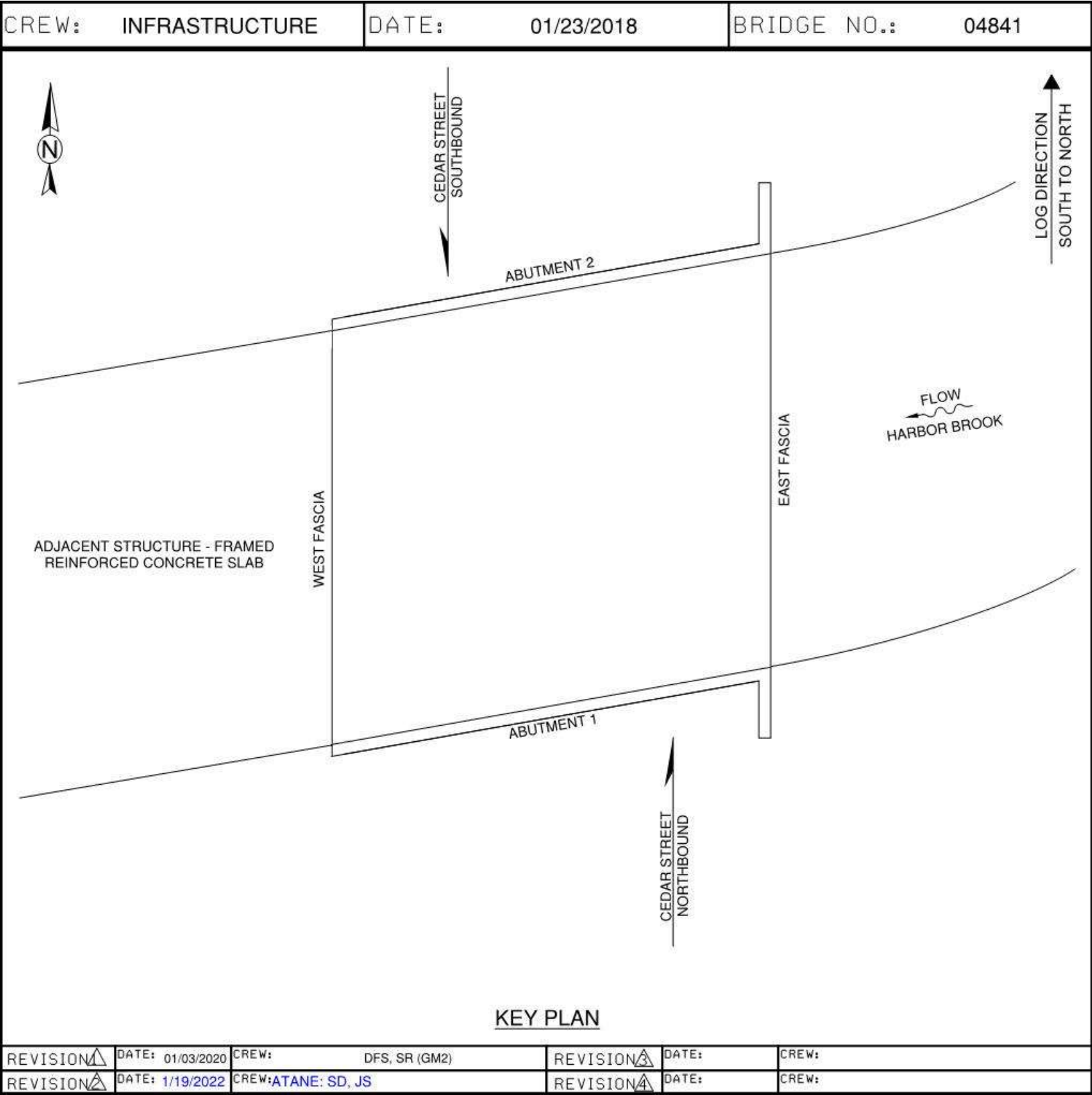
Town: MERIDEN
 Carried: CEDAR STREET
 Crossed: HARBOR BROOK
 Inventory Route: Non-NHS

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
144 - Reinforced Concrete Arch	Mod.	30	ft.	0	26	4	0
Simple Span Cast-In-Place Reinforced Concrete Arch - Deck..							
1080 - Delamination/Spall/Patched Area		10		0	6	4	0
1120 - Efflorescence/Rust Staining		10		0	10	0	0
1130 - Cracking (RC and Other)		10		0	10	0	0
215 - Reinforced Concrete Abutment	Mod.	100	ft.	16	0	84	0
Reinforced Concrete Abutments..							
1190 - Abrasion/Wear (PSC/RC)		84		0	0	84	0
330 - Metal Bridge Railing	Mod.	60	ft.	46	13	1	0
Aluminum Metal Bridge Railings & Reinforced Concrete Rail Bases.							
1020 - Connection		11		0	10	1	0
7000 - Damage		3		0	3	0	0

Sketches
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS

CREW: DFS, SR (GM2)	DATE: 01/03/2020	BRIDGE NO.: 04841
<p><u>General Notes - Top of Deck:</u></p> <ul style="list-style-type: none"> - There is approximately 2' of fill above the arch. - Overlay w/ random areas of light raveling. - The granite curbs have edge chipping, rust stains and random adjacent section are vertically / laterally misaligned up to 1" and tipped towards the roadway. - Average West Curb reveal = 3-1/4"; Average East Curb reveal = 5-3/16". - Sidewalks have random transverse cracks up to 1/8" wide & areas of light scaling for full width by full length. - Concrete rail bases have light scaling and isolated vertical hairline cracks. - Aluminum two-pipe rail mounted on top of the rail base has random minor dents & scrapes and isolated graffiti. Random anchor bolts are slightly tipped. - Steel chain link fences along NE & SE corners of the approaches have light rust and are bent in and out at random locations. 		
REVISION	DATE: 1/19/2022	CREW: ATANE: SD, JS
REVISION	DATE:	CREW:
REVISION	DATE:	CREW:

Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

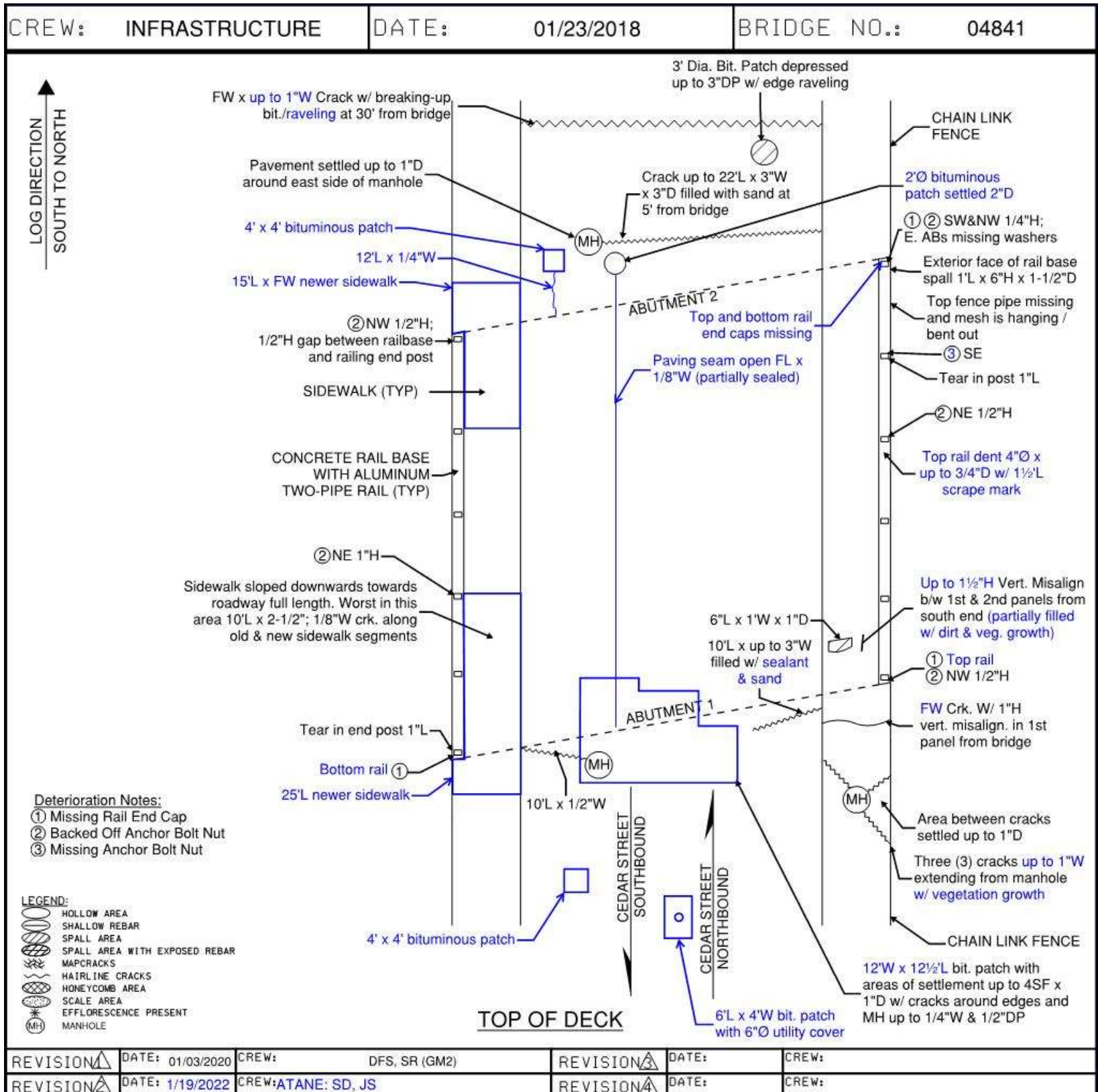
:Bridge No 04841

Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS



Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

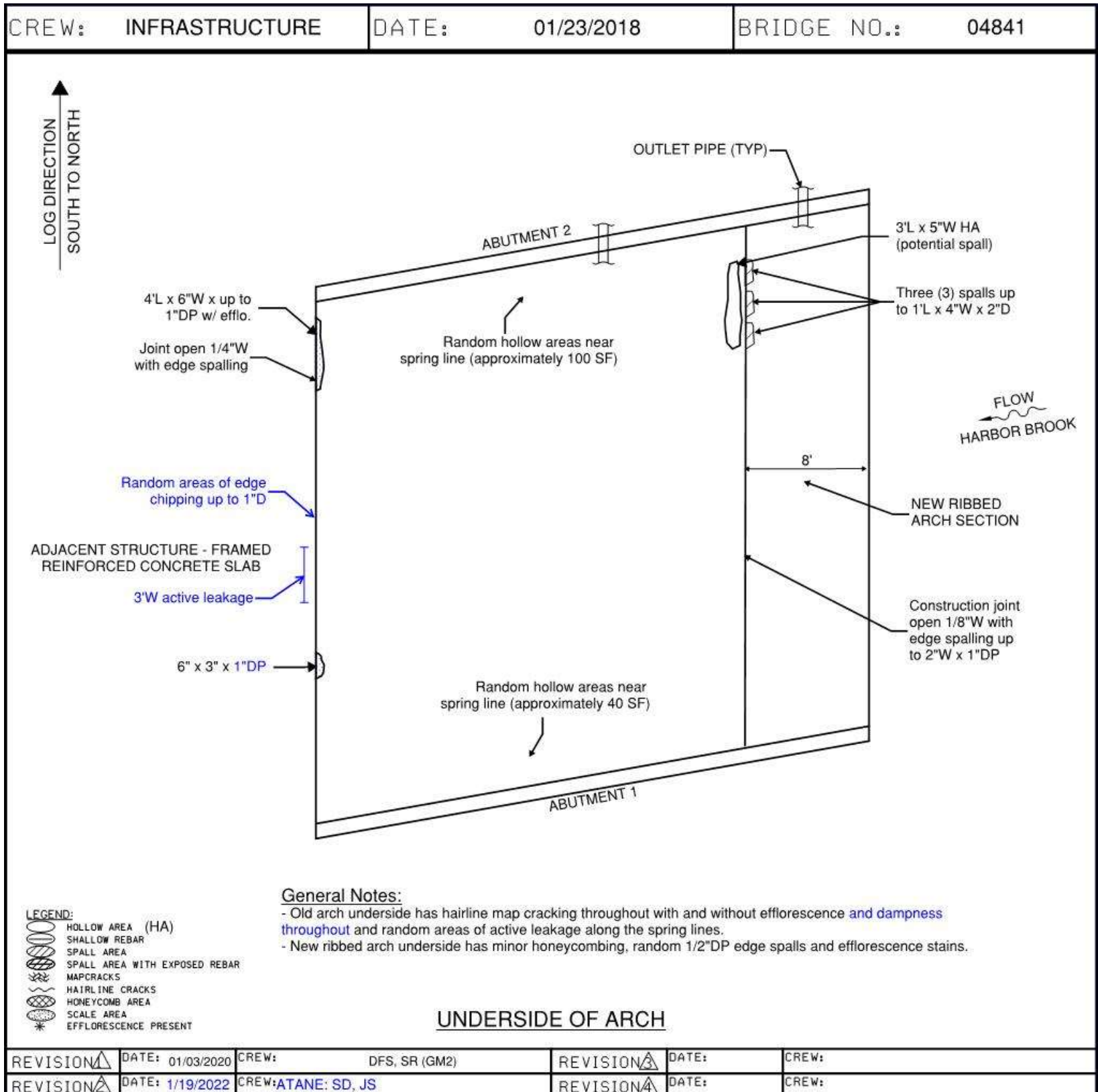
:Bridge No 04841

Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS



Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

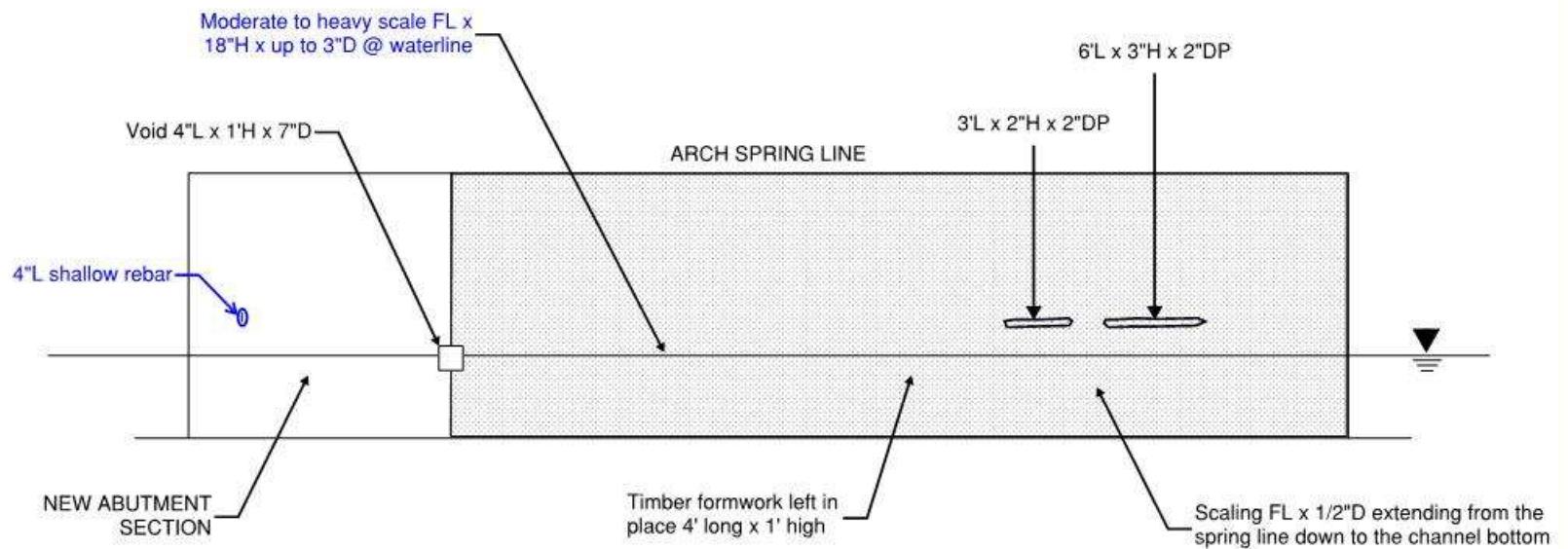
Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS

CREW: INFRASTRUCTURE	DATE: 01/23/2018	BRIDGE NO.: 04841
----------------------	------------------	-------------------



General Notes:

- Random areas of active leakage along the spring lines.
- Concrete overpour along spring line.
- Heavy accumulation of debris along abutment stem for full length @ waterline.

LEGEND:

	HOLLOW AREA (HA)
	SHALLOW REBAR
	SPALL AREA
	SPALL AREA WITH EXPOSED REBAR
	MAPCRACKS
	HAIRLINE CRACKS
	HONEYCOMB AREA
	SCALE AREA
	EFFLORESCE PRESENT

ABUTMENT 1 ELEVATION

REVISION	DATE: 01/03/2020	CREW: DFS, SR (GM2)	REVISION	DATE:	CREW:
REVISION	DATE: 1/19/2022	CREW: ATANE: SD, JS	REVISION	DATE:	CREW:

Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

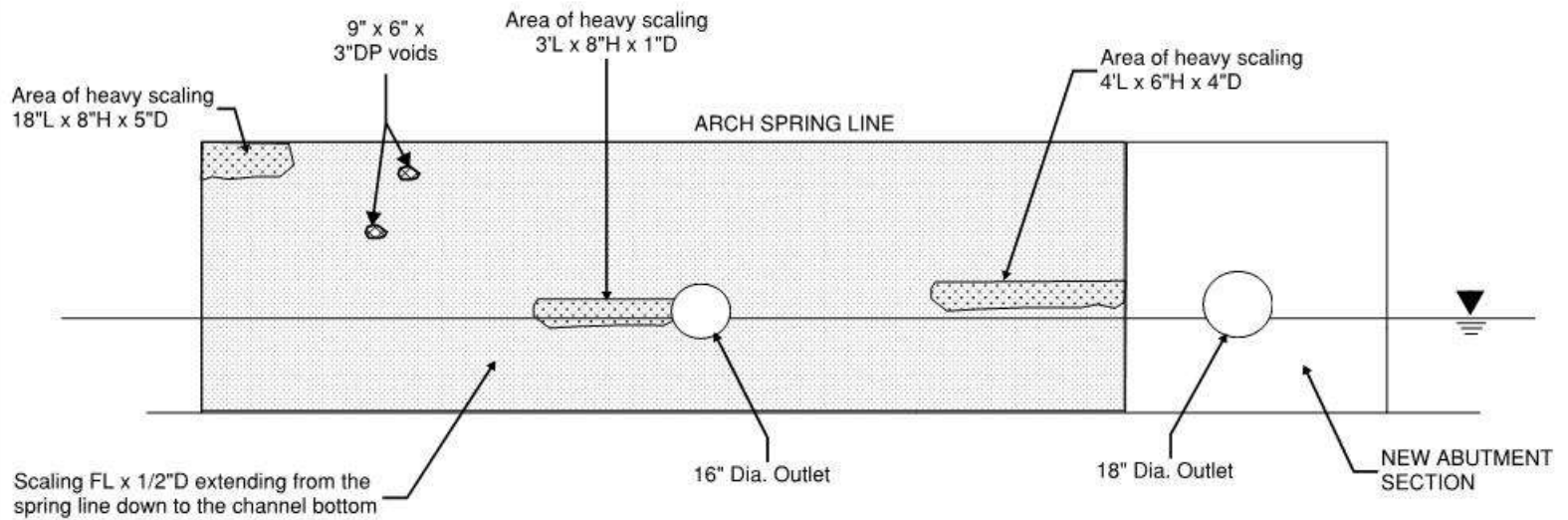
Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS

CREW: INFRASTRUCTURE	DATE: 01/23/2018	BRIDGE NO.: 04841
----------------------	------------------	-------------------



General Notes:

- Random areas of active leakage along the spring lines.
- Concrete overpour along spring line.

LEGEND:	
	HOLLOW AREA (HA)
	SHALLOW REBAR
	SPALL AREA
	SPALL AREA WITH EXPOSED REBAR
	MAPCRACKS
	HAIRLINE CRACKS
	HONEYCOMB AREA
	SCALE AREA
	EFFLORESCE PRESENT

ABUTMENT 2 ELEVATION

REVISION	DATE: 01/03/2020	CREW: DFS, SR (GM2)	REVISION	DATE:	CREW:
REVISION	DATE: 1/19/2022	CREW: ATANE: SD, JS	REVISION	DATE:	CREW:

Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

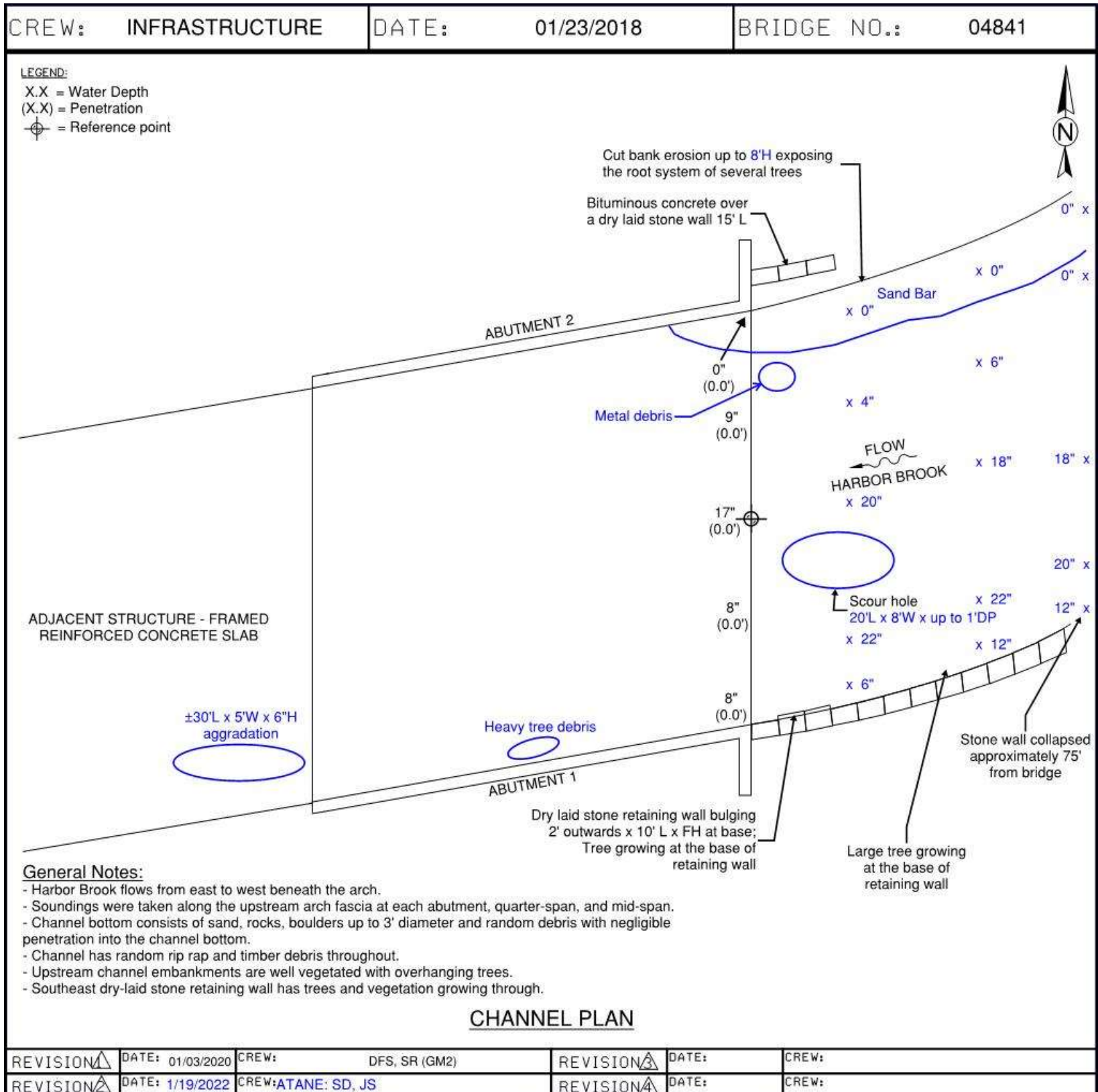
:Bridge No 04841

Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS



Sketches

Inspection type: Routine

Inspection Date: 1/19/2022

Inspected by: ATANE Engineers, P.C.

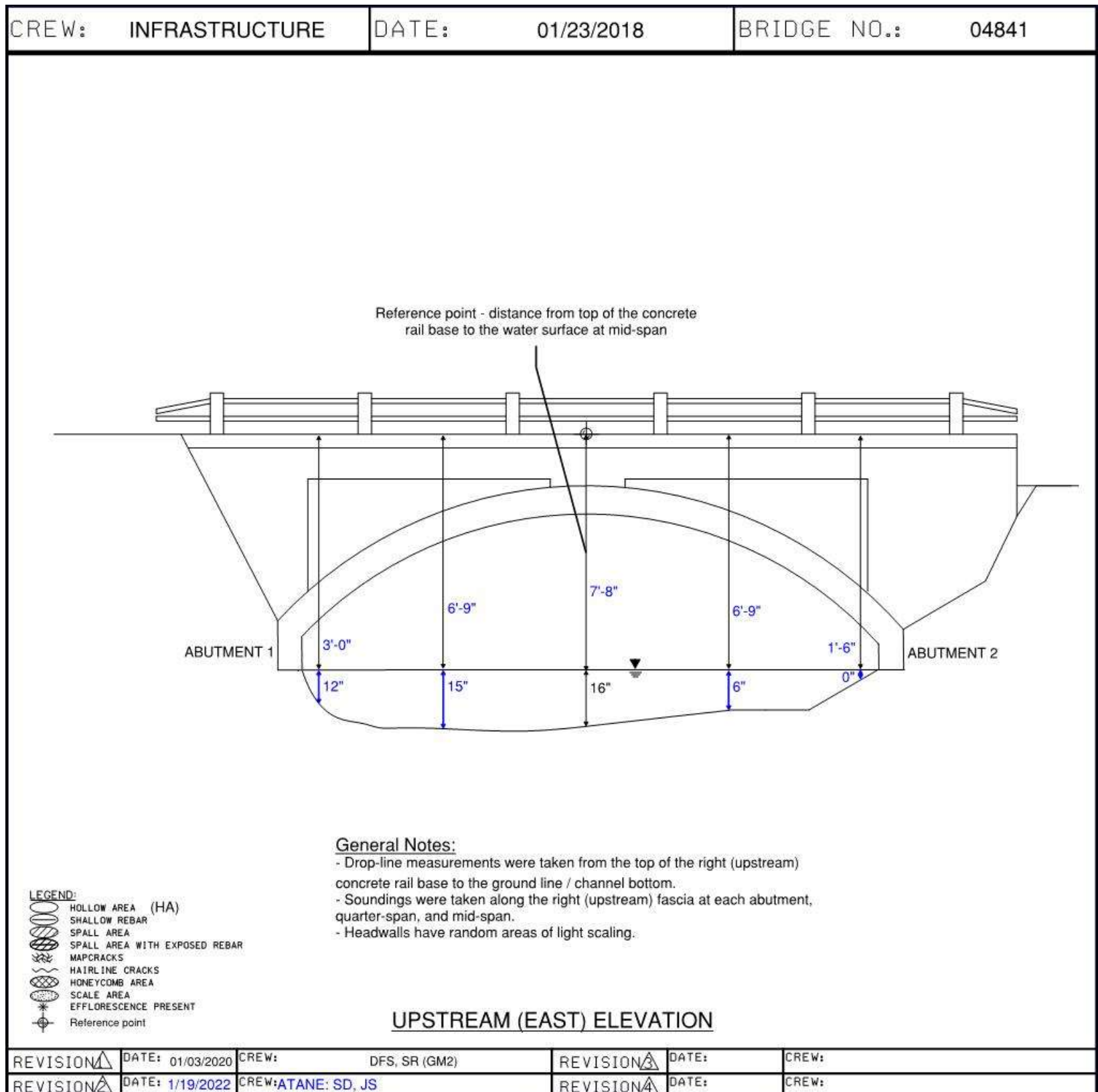
:Bridge No 04841

Town: MERIDEN

Carried: CEDAR STREET

Crossed: HARBOR BROOK

Inventory Route: Non-NHS



Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 1

Photo Taken: 01/19/2022

Bridge Identification Number.



Photo Number: 2

Photo Taken: 01/19/2022

West (downstream) elevation.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 3

Photo Taken: 01/19/2022

East (upstream) elevation.



Photo Number: 4

Photo Taken: 01/19/2022

Bridge from the South approach.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 5

Photo Taken: 01/19/2022

South approach from the bridge.



Photo Number: 6

Photo Taken: 01/19/2022

Bridge from the north approach.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 7

Photo Taken: 01/19/2022

North approach from the bridge.



Photo Number: 8

Photo Taken: 01/19/2022

Typical condition of the bituminous pavement over the bridge. Note the longitudinal crack extending from the approach pavement.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 9

Photo Taken: 01/19/2022

Pavement at Abutment 1 has a transverse crack and a patch.



Photo Number: 10

Photo Taken: 01/19/2022

West curb, sidewalk, rail base and railing.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 11

Photo Taken: 01/19/2022

East curb, sidewalk, rail base and railing.



Photo Number: 12

Photo Taken: 01/19/2022

West curb sections at the north end have vertical misalignment.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 13

Photo Taken: 01/19/2022

West sidewalk at the south end is sloped downwards towards the roadway.



Photo Number: 14

Photo Taken: 01/19/2022

East bridge sidewalk between the 1st and 2nd sections from the south end has vertical misalignment.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 15

Photo Taken: 01/19/2022

Southeast approach sidewalk has vertical misalignment along the crack in the 1st section from the bridge.



Photo Number: 16

Photo Taken: 01/19/2022

Southeast approach sidewalk has cracks extending from the manhole. Also note the damaged chain link fence.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 17

Photo Taken: 01/19/2022

West railing, South end post has a tear.



Photo Number: 18

Photo Taken: 01/19/2022

East railing, second post from the north end has a missing anchor bolt nut.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 19

Photo Taken: 01/19/2022

West railing, North end post has a backed off anchor bolt nut and a gap between the base and rail base.



Photo Number: 20

Photo Taken: 01/19/2022

East fence at the north end has a missing top pipe rail.



Photo Number: 21

Photo Taken: 01/19/2022

North approach pavement near Abutment 2 has a transverse crack, a bituminous patch and two (2) depressed areas.



Photo Number: 22

Photo Taken: 01/19/2022

North approach pavement has a full width transverse crack at 30' from the bridge.



Photo Number: 23

Photo Taken: 01/19/2022

Typical condition of the old concrete arch underside.



Photo Number: 24

Photo Taken: 01/19/2022

Typical condition of the new concrete arch underside.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 25

Photo Taken: 01/19/2022

Underside of the old concrete arch has areas of hairline map cracking.



Photo Number: 26

Photo Taken: 01/19/2022

West end of old concrete arch near Abutment 2 has scaling.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 27

Photo Taken: 01/19/2022

The joint between the older and newer concrete arch sections near Abutment 2 has a spall and leakage.



Photo Number: 28

Photo Taken: 01/19/2022

The old concrete arch at the west end has active leakage at the crown.



Photo Number: 29

Photo Taken: 01/19/2022

Abutment 1 elevation.



Photo Number: 30

Photo Taken: 01/19/2022

Abutment 2 elevation.



Photo Number: 31

Photo Taken: 01/19/2022

Abutment 2 at the west end has scaling.



Photo Number: 32

Photo Taken: 01/19/2022

Abutment 1 along the joint between the older and newer concrete arch sections has a void.



Photo Number: 33

Photo Taken: 01/19/2022

Dry-laid stone retaining wall at the southeast corner of the structure has a section that is bulging out.



Photo Number: 34

Photo Taken: 01/19/2022

Upstream channel.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 35

Photo Taken: 01/19/2022

Downstream channel.



Photo Number: 36

Photo Taken: 01/19/2022

Northeast channel embankment.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 1/19/2022
Inspected by: ATANE Engineers, P.C.

:Bridge No 04841

Town: MERIDEN
Carried: CEDAR STREET
Crossed: HARBOR BROOK
Inventory Route: Non-NHS



Photo Number: 37

Photo Taken: 01/19/2022

Accumulation of debris at the east end of Abutment 2.

Form: Maintenance
Carried: CEDAR STREET
Crossed: HARBOR BROOK

:Bridge No 04841

Town: MERIDEN
Inventory Route: Non-NHS

Status: Open
Assigned To: ATB ATB
Work Item ID: 04841-2020-0001
Date Issued: 01/15/2020
Priority: Priority Repair
Deficiency: Sidewalk/ Safety Walk
Structural Component: Deck
Comments: Repair the vertical misalignment between adjacent sidewalk panels at the following locations:

- 1 inch high vertical misalignment (due to transverse crack) along the southeast approach sidewalk, at the 1st approach sidewalk panel from the bridge.
- 1 inch high vertical misalignment, with an adjacent 1 inch deep spall, along the east bridge sidewalk, between the 1st and 2nd sidewalk panels from the south end.

Date Completed: Actual Quantity:



Vertical misalignment along the southeast approach sidewalk (due to crack), at the 1st approach sidewalk panel from the bridge.

Affected Area : Create Report Section.
Section Name : Table of Contents
Section Type : TOC
Detailed Message : Could not load file or assembly
'System.Data.OleDb, Version=5.0.0.0, Culture=neutral,
PublicKeyToken=cc7b13ffcd2ddd51'. The system cannot find the file
specified.