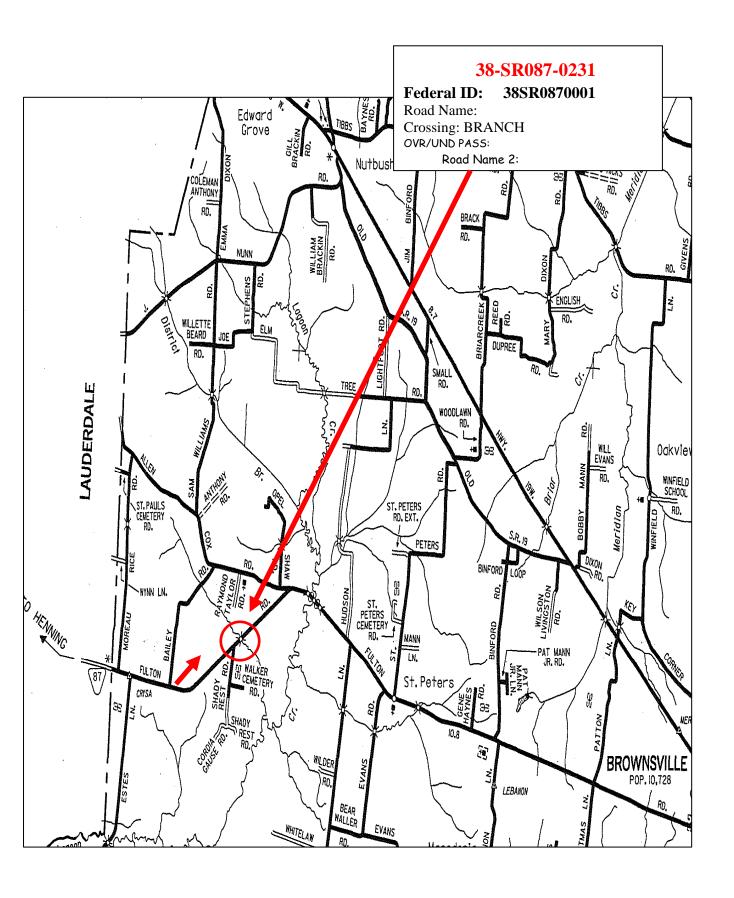
HAYWOOD COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAYWOOD

LOCATION: 38-SR087-02.30-

CO. SEQ.: 1 SPEC. CASE: 0



REPAIR LIST NO.: CROSSING: BRANCH DATE ADDED: 11/16/2017 FED. BRIDGE NO.: 38SR0870001 REVISED: 08/11/2021 MAINT. DIST.: 38

FACILITY CARRIED:]	FAS 87	NUMBER OF MAIN SPANS:	1
HIGHWAY SYSTEM:	05-STP	RURAL,	STATE	NUMBER OF APPROACH SPAN	NS: 0
BRIDGE WIDTH (CURB TO C	JRB):	27 FT	2 IN	BRIDGE LENGTH (FT):	29
BRIDGE WIDTH (OUT TO OUT	г):	28 FT	6 IN	MAXIMUM SPAN LENGTH (F	r): 28
APPROACH ROADWAY (W/SHO	JLDERS):	26 FT	10 IN	SKEW ANGLE (DEGREES):	90
	_				
MAINTAINED BY:				STATE HIGHWAY AGENCY	
MAIN SPAN MATERIAL:				CONCRETE	
MAIN SPAN DESIGN TYPE:				CHANNEL BEAM	
APPROACH SPAN MATERIAL:			OTH	HER OR NOT APPLICABLE	
APPROACH SPAN DESIGN TY	PE:		OTH	HER OR NOT APPLICABLE	
INSPECTION DATE:	08/11/2021		G	ENERAL CONDITION:	FAIR
EVALUATION DATE:	10/09/2019		S	TRUCTURALLY DEFICIENT: _	NO
PPRM PIN NUMBER:					
H TRUCK RATING @ INV.:	16 TONS		S	UFFICIENCY RATING:	76.5

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
CLEAR DRAINS
CUT AND REMOVE VEGETATION FROM CHANNEL
APPROACH GUARDRAIL TERMINALS ARE SUBSTANDARD
APPROACH GUARDRAILS ARE NON-EXISTENT
BRIDGERAILS ARE SUBSTANDARD

GENERAL	COMMENTS:	_			
		•			



Bridge Number:

(Includes Item 5A)

Bridge Condition Coding Form

Revised 08/12/2021

2.30

County: 38 **Route:** SR087 **Special Case:** 0 **County Sequence:** 1

Feature Intersected: BRANCH Log Mile: **Evaluation Status:** CONDITION ITEM CHANGE

38SR08700011

ANGED

EM #	# DESCRIPTION	VA	LUE		
90	LAST INSPECTION DATE	08	/11/20)21	1
	EARLIEST DATE OF NEXT	06	/12/20)23	1
	REGULAR INSPECTION	/	/	1	_
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99	FT. FT	99	I
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99	FT. FT	99	I
36	TRAFFIC SAFETY FEATURES Br. Rail Trans. Appr. Rail Te 0 N N	rminal 0	SP	EED LI 55	ſΝ
41	STRC OPEN/CLOSED/POSTED A K P		P		
58	DECK		7		
59	SUPERSTRUCTURE		6		
60	SUBSTRUCTURE		5		
61	CHANL/CHANL PROTECTION		6		
62	CULVERT AND RETAIN WALL		N		
71	WATERWAY ADEQUACY		6		
72	APPROACH RDWY ALIGNMENT		8		
521	OVERALL CONDITION	(FAIR		
16	LATITUDE 17 LONGITUD N 35° 37.4583′ W 89° 25.8550				_

CONDITION CODING GUIDELINES

(Values for Coding Items 58, 59, 60 and 62)

- N NOT APPLICABLE
- EXCELLENT CONDITION
- **VERY GOOD CONDITION NO** PROBLEMS NOTED.
- 7 GOOD CONDITION SOME MINOR PROBLEMS.
- SATISFACTORY CONDITION MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION LOSS OF SECTION, **DETERIORATION, SPALLING OR SCOUR HAVE** SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- 2 CRITICAL CONDITION ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS **CLOSELY MONITORED IT MAY BE** NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
- "IMMINENT" FAILURE CONDITION MAJOR **DETERIORATION OR SECTION LOSS** PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS **CLOSED TO TRAFFIC BUT CORRECTIVE** ACTION MAY PUT IT BACK IN LIGHT SERVICE.
- FAILED CONDITION OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



BRIDGE NUMBER



RIGHT SIDE

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



VIEW ACROSS TOP OF DECK



LEFT SIDE

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



LOOKING AHEAD ON ROUTE



APPROACH # 1 WEIGHT LIMIT

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



LOOKING BACK ON ROUTE



APPROACH # 2 WEIGHT LIMIT

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



ABUTMENT # 2



BOTTOM DECK

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



LEFT ELEVATION



RIGHT ELEVATION

Bridge Loc. No: 38-SR087-02.31 Date: 8-11-21



ABUTMENT # 1



ABUTMENT # 2 PILE "D"

BRIDGE INSPECTION REPORT

Form BIR 3.0	Field Report No.: _ 26	Date: 생네니
(Rev. 9-22-98)	Previous Report No.: 25	Date: <u>9-12-19</u>
DT-0069	Co. Seq 01 Plans: YES (,
Bridge No. 38SR0870001 Bridge Location Eleven Digit No.	No. 38 - SR087 - 0231 Co. Route Log Mile	OVER/UNDER PASS
	NCH	OITV
Road Name	Feature Intersected	CITY
Year Constructed 1990	·	ist: <u>48</u> Maint.Resp: <u>02</u>
Year Widened Year Rehabil		Name (If Named)
FEATURES	Structure	INSPECTORS
Wearing Surface Concrete () Timber () As	phalt (& Depth 3:5" (in)	
	/idth Open () None () Closed ()	1. Kee (TL)
. 55 () ()		2. 5. Higes
Navigational Control Yes () No () Bridge	Skew 90 ° LT()RT()	3. <u>(ok .</u>
Structure Type (Main Span) P. C. C. S.		4. A- Hayer
Structure Type (Appr.Spans)		5.
No. Main Spans 1 No. Approach	Spans	6.
Maximum Span Length 29.0 (**.* ft	.)	7.
Total Length 29.0 (**.* ft	.)	8.
WIDTHS (*.* ft.) Deck Out-to-Out 28.0 Roadway Curb/Curb 27.0 Roadway Rail/Rail Sidewalk Rt. Lt. *Approach Roadway 19.0 *(Does Not Include Shoulders)	CLEARANCES Min. Vertical Clearance over Deck Min. Vertical Under Clearance Min. Lateral Under Clearance Rt. Min. Lateral Under Clearance Lt. FRACTURE CRITICAL: (If Yes, Include BIR 3.9)	(ftin.) (ftin.) (*.* ft.) (*.* ft.)
Approach Shoulder Rt. 4.0		
Lt. 4.0	NBIS Bridge Length (<25 ft.)	(ftin.)
UNDERWATER INSPECTION	5 .	
To Be Performed By:	Date	
DOT FIELD TEAM () CONTRACT DIVERS ()	•	
Change in Structural Condition: Yes () No	(X) Major Repairs Made:	Yes() No(X)
<u>COMMENTS:</u>		
LATITUDE: N35 ° 37.4583 '		
LONGITUDE: W89 ° 25.8550 ' G.P.S. Location	BRIDGE RATING: () (X) GOOD FAIR	() () POOR CRITICAL
Supervising Bridge Inspector:	1st 7ces	

Form BIR 3.1 (Rev. 9-22-98) DT-0080	Bridge Location	on No. 38 -		0231 Date	
PERFORMANCE EVA	LUATION			عا د	
Time of Day Inspecte	ed 9:00 a.m	Weather	Conditions_	850Ft Juny	
Vehicles Observed_		Passerer	<u>vehicles</u>	, 	
LIVE LOAD BEHAVIO	<u>OR</u>				
Substructure	YES N	0	-	Comments	
Horiz./ Vert. Det	fl. () ()	X)			
Vibration	() (0			
Superstructure		•			
Horiz./ Vert. Det	fl. () (\	()			
Vibration	() (()	· · · · · · · · · · · · · · · · · · ·		
APPROACH	Rating	•	_	Comments	
Alignment	G F P C				
.Slab	G F P C				
Joints	GFPC				
Pavement	GFPC				
Embankment	G F P C				
Drains	GFPC				
TRAFFIC SAFETY FE	ATURES				
Bridgerailing Transitions Guardrail Guardrail Terminal	Rating GFPC GFPC GFPC		(X) () () (X)	Comments	
SIGNING		YES NO	NEEDED	Weight Limit Posted	
Paddleboards		(<u>/</u>) ()	()	YES ((/) NO()	
Vertical Clearance	(<14'-6")	() (<u>(</u>)	()	Gross	Tons
NARROW ()	,	() (<u>y</u>)	()	2 Axle <u></u>	Tons
ONE LANE BRIDG	E ()	() (<u>v</u>)	()	3 or more Axles	Tons
Other Signs or Place	ques:	Vone			
Comments Regard Problems with Sign	ing any				
			 		

Form BIR 3.2 (Rev. 9-22-98)	Bridge Location No.	38	3 - SR087 - 0231 Date
DT-0081	Diago Location No.	Co.	
<u>DECK</u>	Rating	 ,	Comments
Wearing Surface	G, F P	С	
Deck - Structural Condition	GFP	С	
Curbs Median Sidewalks Parapet Railing Paint	G F P G F P G F P G F P	000000	
Paint Drains Lighting Standards Utilities Joint Leakage Expansion Joints	GFP GFP GFP GFP	00000	All draw (043)
SUPERSTRUCTURE			
Bearing Devices Beams	G F P G F P	C C	
Girders	GEP	С	
PCCS	G (F) P	С	
BOLTS (PCCS)	G F P	С	
Floor Beams	GFP	С	
Stringers	GFP	С	
Diaphragms	GFP	С	
Bracing Trusses - General Portals Bracing	G F P G F P G F P		
Paint	G F P		
Alignment of Members	G F P	С	
TEXTURE COAT			
Condition Rating Overall Appearance	GFPC '	_	Fading G F P C Needs Spot Painting YES () NO () Needs Repainting YES () NO ()
RECOMMENDATIONS	_		Scaling Rating G F P C CLEAN SEAL JOINTS () CLEAN DRAINS (X)

Form BIR 3.3 (Rev. 9-22-98) Bridge Location No. 38 - SR087 -0231 Date DT-0082 Co. Route Log Mile PILES TO BE **SUBSTRUCTURE** REPLACED Comments Rating **ABUTMENTS ABUTMENT** PILE(S) G F Caps P Breastwall G(F)Wings Ρ G Backwall Plumb Footing G(F) P **Piles** C (F)G P C **Embankment** Р Bearing G F C GF Slope Paving Р C G F C Rip Rap Ρ Earthquake Devices G F P PILE(S) PIER **PIERS** G F P C Caps Columns FP C Plumb G F Р **Footings** G F Ρ C C F Р **Piles** C G F Р Bearing F Ρ C Web Earthquake Devices G F C **BENTS BENT** PILE(S) Caps G F C Columns Plumb F GFP **Footings** C Piles G F Ρ FΡ Bearing G C С F Bracing G Р Earthquake Devices G F P C NO (X) YES ()-Piles Need Replacement: NO() YES(X) (204) **CUT VEGETATION** NO(X) YES() CLEAR DRIFT **RECOMMENDATIONS:**

Bridge Location No	38	_	SR087	-	0231
_	C_0		Pouto		Log Mile

AUG	1	1	2021
Date			

STREAM CHANNEL DATA AND CONDITIONS

		Stream Crossing: BRANCH
I.	1.	Type of bed material? Sand/s: 1+
	2.	Has channel shifted? YES () NO (X) NOT APPARENT ()
	3.	Condition of rip-rap? G F P C Est. % failed % N/A 🔀
	4.	Overall condition of channel? GFP C
	5.	Item 61 - Code values 0 thru 9 according to the recording and coding guide currently in effect:
	6.	Underwater diver inspection recommended? YES () NO (x) If yes, why?
II.	Ch	nannel and bank stability conditions: (check if applicable)
		Steep bank conditions: - Failures upstream () Failures downstream
	2.	Moderate bank erosion (x)
	3.	Bank vegetation: a. low growth (x) b. large timber (X) c. clear banks () d. dead trees upstream (X) e. dead trees downstream (X)
	4.	Sediment or gravel accumulation: YES () NO (x) UNKNOWN ()
	5.	Channel altered or straightened: YES () NO (x) UNKNOWN ()
	6.	Stable conditions: a. live growth (X) b. bedrock ()
		c. boulders () d. flat slopes (<=2:1) ()
III.	Wa	aterway adequacy and debris characteristics: (check if applicable
	1.	Bridge deck elevations:
		a. level with approach roadway(K)
		b. higher than approach roadway
	2.	Abutment encroaches into channel
	3.	Large scour (blowhole) under bridge
	4.	Indications that flood waters overtop bridge:
	••	NO (A) YES () OCCASIONALLY () FREQUENTLY () UNKNOWN ()
	5.	Debris characteristics:
		a. debris/drift present YES () NO (X)
		b. debris/drift likely to accumulate YES () NO (x)
	_	c. dead trees upstream (x) dead trees downstream (x)
IV.	Cc	omments:
_		
<u>SP</u>	ECI	AL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR
l.	Do	pes this bridge need a special inspection? YES () NO 🔀
II.	Re	ason for special inspection:

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
his document is covered by 23 USC \$40\$
and its production pursuant to a public
bocument records request does not
Vaive the provisions of \$409

Inspection Team's Summary
Bridge Location No. 38 - SR087 - 02.31
Inspection Date 8/11/21
Bridge Rating Fair

This is a 1 span p.c.c.s bridge with metal rails & 4 paddle boards.

The bridge is posted @ 40/40 ton on each approach.

The asphalt roadway has no issues.

Span # 1 drains are filled with debris.

The p.c.c.s. have up to 1/16" cracks with efflorescence & spalling.

The timber substructure has light to medium weathering & decay.

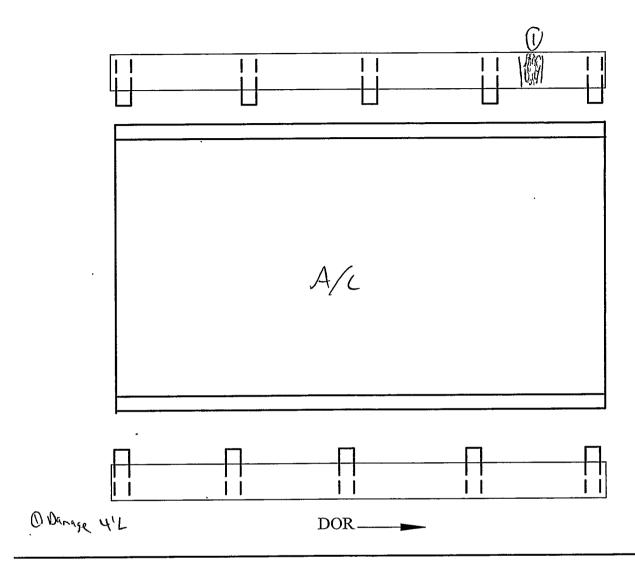
Vegetation is heavy.

The scour is fair due to abutment # 2 being in the channel.

Jacob Kee

INSPECTOR

CROSS SECTION: YES () NO (X) BRM: YES (X) NO ()



ELEMENT	RATING	COMMENT
TOP DECK	GFPC	
CURBS	G F P C	
RAIL & POST	GF P C	See (1)
PAINT	GFPC	
DRAINS	G FP C	Rilled with deline
JOINT	GFPC	
	GFPC	

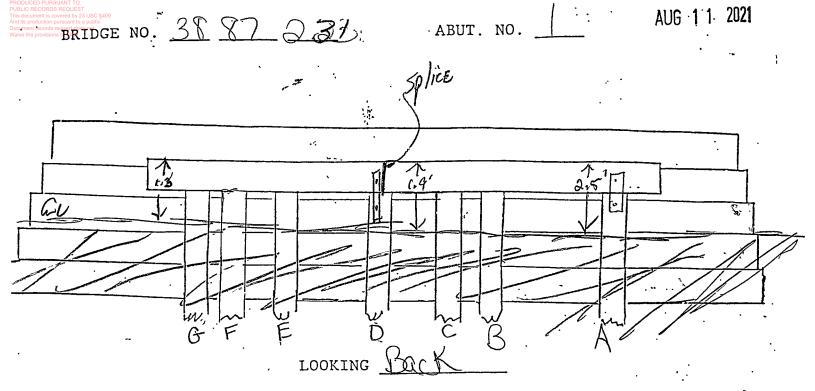
AUG 1 1 2021

SPAN. NO.

Ol'in dia x 3/4"D D 5" in dia x 1"D 3 1'Ux 6"Hx 1"D Spalling Spall to Street Spalling Spall to Street

ELEMENT	RATING	COMMENT	
SLABS A	G P C	hairline cracks w/eff	
В	G €P C	harrine cracks w/eff, sec 0	i
С	GEP C	harrine cracks weff	
D	G ₽ P C	Yiu" cracks, see @	
E	GFP C	Your cracks with sea 3	
F	G 🛱 P C	howline cracks w/eff	
G	G P C	haurline cracks w/eff	
Н	G P C	hairline cracks w/eff	
BOLTS	GFPC		

Date: 8/1/21 Rev. 08/03/00 Pg. # _____ of ____ BRIDGE NUMBER: 38SR0870001 38 SR087 0231 CROSSING: BRANCH TOTAL HEIGHT DATE (t) ABUT/BENT/ W/FTG @ H= TOP OF CAP TO **EXPOSURE** LAST **PIER** FOOTING TOP OF CAP TO (OR GROUND LINE/ **EXPOSURE THICKNESS** TOP OF FOOTING **NUMBER** DATE FOR PILES 2.51 × ** TOP OF CAP TO TOP OF WATER: 4.6' RIP-RAP: YES: () NO: $\cancel{8}$) @ ABUTMENTS:__ 100.00' UPSTREAM: _____ @ BENTS/PIERS:_ THRU STRUCTURE: UPSTREAM 100.00' DOWNSTREAM:_____ DOWNSTREAM THRU STRUCTURE COMMENTS:

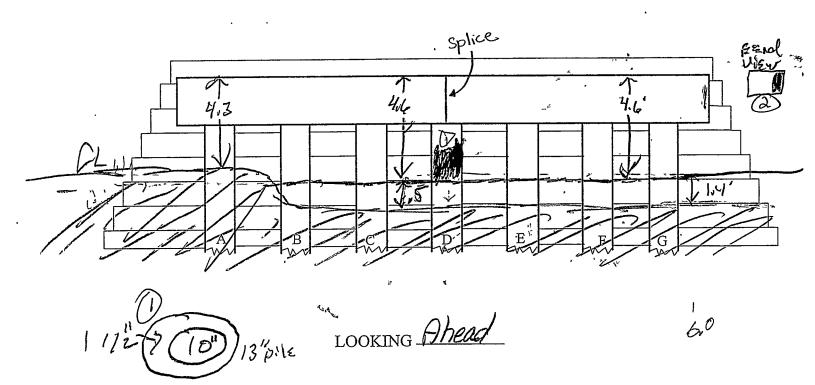


ELEMENT	RATING		COMMENT		·	_
CAP., ,	G F P C	light to Me	l weathering			· ·-
BREASTWALL	G F P C					
WINGS	GFPC				•	
PILING A B C D E	FFFFFFPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP					
RIP RAP	GFPC			•	:	•
VEG.	G F D C	Heavy				
Embankment	@FPC			, , ,		,
		·				

Bridge No. Co. Log Mile Route

ABUT. NO.

AUG 1 1 2021



ELEMENT	RATING	COMMENT
CAP WINGS PILES A	GEPC GEPC GEPC	light to Med Weath & Rhis Dy / Di Deray 18/2 ARON Deray 18/6 x 3/6/a
B C D E F G	GPPC GPPC GPPC GPPC	See () light to mad weatlering
RIP-RAP- EMB. VEG. BREASTWALL	GFPC GFPC GFPC GFPC	IN Channel Heavy I's not to med Weathering

38SR0870001 38 SR087 0231 SKEW: 90

BRIDGE NO.: CO. ROUTE L.M. L/R

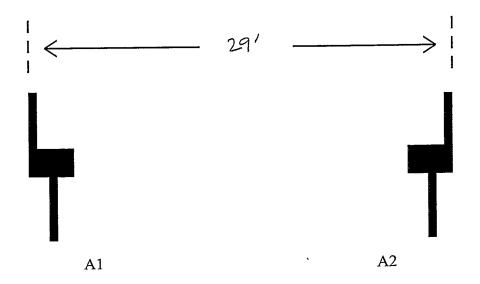
Direction of Route

F = FIXED

E = EXPANSION

S = SIMPLE

C = CONTINUOUS



Your Agency Name

Your Office Name Your Department Name

Structure Inventory and Appraisal Sheet (English Units)

Str Unit	Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
0	16/3	Re Conc Top Flange	sq.ft	841.00	100%	841.00	0%	0.00	0%	0.00	0%	0.00
0	510/3	Wearing Surfaces	sq.ft	812.00	100%	812.00	0%	0.00	0%	0.00	0%	0.00
0	116/3	Re Conc Stringer	ft	232.00	38%	89.00	62%	143.00	0%	0.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
0	1090/3	Exposed Rebar	ft	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
0	1120/3	Efflorescence/Rust Staining	ft	60,00	0%	0.00	100%	60.00	0%	0.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	80.00	0%	0.00	100%	80.00	0%	0.00	0%	0.00
0	216/3	Timber Abutment	ft	56.00	95%	53.00	0%	0.00	5%	3.00	0%	0.00
0	1140/3	Decay/Section Loss	ft	3,00	0%	0.00	0%	0.00	100%	3.00	0%	0.00
0	330/3	Metal Bridge Railing	ft	58.00	93%	54.00	7%	4.00	0%	0.00	0%	0.00
0	7000/3	Damage	ft	4.00	0%	0.00	100%	4.00	0%	0.00	0%	0.00