	NSPECTIC	ON REPORT	
INSPECTION TYPE: COUNTY GASTON	Routine Inspection BRIDGE NUMBER 350067	INSPECTION CYCLE 2 Y	RS
ROUTE US29/US74	ACROSS DUHART'S CREE		.P. 0
	88.917 ALONG THE CENTERL 55 3 0 - 1 수	INE OF CULVERT	
SPANS			
LONGITUDE 81° 7' 44.30"	LATITUE	DE 35° 15' 35.26"	
INSPECTION DATE 08/18/2014	PRESENT	CONDITION FAIR	
PRESENT POSTING N	IOT POSTED PROPOS	SED POSTING	
OTHER SIGNS PRESENT NONE			



Fracture CriticalNoTemporary ShoringNoScour CriticalNoScour POANo

SIGN NOTIONS		NUMBERED
No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

WEST APPROACH

SCOUR

SUFFICIENCY RATING =

IDENTIFICATION	
(1) STATE NAME -NORTH CAROLINA BRIDGE	350067
(8) STRUCTURE NUMBER(FEDERAL) 000	000000710067
(5) INVENTORY ROUTE (ON/UNDER) - ON	21000290
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1
(3) COUNTY CODE 71 (4) PLACE CODE	25580
(6) FEATURE INTERSECTED - DUHARTS CREEK	
(7) FACILITY CARRIED US29/US74	
(9) LOCATION 0.3 MI. S. JCT. SR2200	
(11)MILEPOINT	0
(16)LAT 35° 15' 35.26" (17)LONG 81° 7' 44.	30"
(98)BORDER BRIDGE STATE CODE PCT SHA	RE
(99)BORDER BRIDGE STRUCTURE NO	
STRUCTURE TYPE AND MATERIAL	
(43) STRUCTURE TYPE MAIN: Concrete continuous	
TYPE - Culverts (includes frame culverts)	CODE 219
(44) STRUCTURE TYPE APPR :	
TYPE -	CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT	3
(46) NUMBER OF APPROACH SPANS	
(107)DECK STRUCTURE TYPE - N	CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :	
(A) TYPE OF WEARING SURFACE -	CODE
(B) TYPE OF MEMBRANE -	CODE
(C) TYPE OF DECK PROTECTION -	CODE
	4000
	1960
(42) TYPE OF SERVICE : ON - Highway	
	CODE 15
(28) LANES: ON STRUCTURE 6 UNDER STRUCTURE	0
(29) AVERAGE DAILY TRAFFIC	32000
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT	12%
(19) BYPASS OR DETOUR LENGTH	3 MI
	0.57
(48) LENGTH OF MAXIMUM SPAN	8 FT 25 FT
(49) STRUCTURE LENGTH (50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	
	0 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	86 FT
	88.917 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	82 FT
(33) BRIDGE MEDIAN - No Median	CODE 2
(34) SKEW 0° (35) STRUCTURE FLARED	0
	999.9 FT
	82 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT
(56) MIN LAT UNDERCLEAR LT REF -	000 FT
NAVIGATION DATA	
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0
(111)PIER PROTECTION -	CODE
(39) NAVIGATION VERTICAL CLEARANCE	0

STATUS = Not Deficient CLASSIFICATION -- CODE YES (112)NBIS BRIDGE SYSTEM -(104)HIGHWAY SYSTEM Is on the NHS 1 (26) FUNCTIONAL CLASS - Other Principal Arterial 14 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0 (101) PARALLEL STRUCTURE - No Parallel Structure Ν (102)DIRECTION OF TRAFFIC - 2-way Traffic 2 (103) TEMPORARY STRUCTURE -(110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0 (20) TOLL On Free Road 3 (31) MAINTAIN -State Highway Agency 01 (22) OWNER -State Highway Agency 01 (37) HISTORICAL SIGNIFICANCE -Not Eligible 5 - CONDITION -- CODE · (58) DECK Ν (59) SUPERSTRUCTURE Ν (60) SUBSTRUCTURE Ν (61) CHANNEL & CHANNEL PROTECTION 7 (62) CULVERTS 6 LOAD RATING AND POSTING — - CODE · (31) DESIGN LOAD HS 20 + MOD 6 (63) OPERATING RATING METHOD - Load Factor 1 (64) OPERATING RATING -HS-26 46 (65) INVENTORY RATING METHOD - Load Factor 1 (66) INVENTORY RATING - HS-20 36 (70) BRIDGE POSTING -No Posting Required 5 (41) STRUCTURE OPEN, POSTED , OR CLOSED А DESCRIPTION - Open, No Restriction - CODE APPRAISAL (67) STRUCTURAL EVALUATION 6 (68) DECK GEOMETRY 5 (69) UNDERCLEARANCES, VERTI & HORIZ Ν (71) WATERWAY ADEQUACY 6 (72) APPROACH ROADWAY ALIGNMENT 8 (36) TRAFFIC SAFETY FEATURES 0111 (113)SCOUR CRITICAL BRIDGES 8 PROPOSED IMPROVEMENTS (75) TYPE OF WORK -CODE (76) LENGTH OF STRUCTURE IMPROVEMENT (94) BRIDGE IMPROVEMENT COST (95) ROADWAY IMPROVEMENT COST (96) TOTAL PROJECT COST (97) YEAR OF IMPROVEMENT COST ESTIMATE (114)FUTURE ADT 64000 (115) YEAR FUTURE ADT 2025 INSPECTIONS (90) INSPECTION DATE 08/18/2014 (93) CFI DATE (92) CRITICAL FEATURE INSPECTION : A) FRACTURE CRIT DETAIL - NO A) B) UNDERWATER INSP -NO B) C) OTHER SPECIAL INSP NO C)

91.71

BRIDGE MANAGEMENT UNIT

		DAT	A ON EXISTING	STRUCTURE	Rur	n Date: 10/01	/2014	
COUNTY : GASTON		DIVISION : 12	DISTRICT: 1	STRUCTURE N 35	NUMBER : 0067		LENGTH : 25	FEET
ROUTE CARRIED :	US29/US74		FEATURE IN	ITERSECTED :	DUHARTS C	REEK		
LOCATED : 0.3 MI. S.	JCT. SR2200		BRIDGE NAME	:		CITY : GAST	ΓΟΝΙΑ	
FUNC. CLASS : 14	SYST.ON : FA	SYST.UND	ER : NFA	ADT & YR : 32000	2012	RAIL	L TYPE : 233 RT	233
BUILT : 1960	BY : SHC	PROJ :		FED.AID PR	OJ :	DESIGN	LOAD : HS 20 +	⊦ MOD
REHAB :	BY :	PROJ :	ALIGNMEN	T: SKEV TAN	N : 90	LANES : ON	6 UNDER	8 0
NAVIGATION : VC 0	FT	HC 0	HT. CRN FT	. TO BED : 9	FT	WATER DE	PTH : 1	FT
SUPERSTRUCTURE :	TRIPLE 8'>	(6'RC BOX CULVE	ERT; 88'-11 ALON	G CENTERLINE C	ULVERT			
SUBSTRUCTURE :								
SPANS :								
BEAMS OR GIRDERS	:							
FLOOR :		ENCROACHM	ENT :	DECI	K (OUT TO C)UT) : 88.917	' FT	
CLEAR ROADWAY :		BETWEEN RAIL	.S :	SID	EWALK OR (CURB :		
86	FT		86 FT		I	LT 0 FT	r rt	0 FT
VERT.CL.OVER : 999.9 FT								
INV.RTG. : HS-20	OPE.RTG. : H	CONT IS-26	R.MEMBER :	POSTE SV	D: TTS	T	DATE	
SYSTEM : Primary U.S. Route					GREE	N LINE ROUT	E: N	

UNDER ROUTES AND CLEARANCES

BRIDGE INSPECTION RECORD AND SUMMARY (R. C. BOX CULVERTS)

INSPECTION TYPE Routine Inspection BRIDGE NO. 350067

ROUTE US29/US74

INSPECTION DATE 08/18/2014 OVER

18/2014 ROUTE ORIENTATION S - N OVER DUHART'S CREEK

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

1. Top Slab			F
2. Bottom Slab			G
3. Ext. & Int. Wa	alls		F
4. Wingwalls - F	Retaining Walls		G
5. Headwalls, T	oewalls, Flumes		G
6. Structure Alig	gnment - Settlement		G
7. Drainage Sys	stems (On Structure)		G
8. Channel &	a. Waterway		G
Channel Protection	b. Alignment		F
	c. Scour	F	
	d. Slope Prot. (Rip-Rap, D	likes, etc.)	
9. Approach Roadway Condition			F
10. Estimated F	Remaining Life		22
11. Channel & Channel Protection Item 61			7
12. Culvert & Retaining Walls Item 62			6
13. Waterway Adequacy Item 71			6
14. Approach Roadway Item 72			8
15. Field Scour Evaluation			В
16. Presently Posted			NO
17. Regulatory Sign Notice Issued			NO
18. Prompt Action Notice Issued			NO
19. Total Field I	19. Total Field Inspection Time		
20. Inspected B	у	all Rk	

Bridge I&A Form 1(82)H

State of North Carolina

Dept. of Transportation

FIELD INSPECTION REPORT

Bridge Inspecion & Analysis

Division of	Highways		
Team Leader	derek ricku	·	
Assisted By	eap		
Item No.	Grade		
8c	F	DEWALL EXPOSED AT THE INLET. 1'X2'L AT BA LET OF BARREL 2.	RREL 1 AND 3 AND 2'H X 3' L AT
9	F	HERE IS A 3' LONG X 2' BACK AREA OF EROSIG HE GUTTER AREA. RODED AREA AT THE SOUTHWEST CORNER E ROSION IS 5'LONG X 4'W X 2'H.	
1	F	HERE IS MODERATE EFFLORESCENCE ALONG OP SLAB AND WALLS AT 12 FT FROM THE OUT ONSTRUCTION JOINT AT 22 FT FROM THE OU 8 WIDE AT TOP. THERE IS MINOR SPALLING V F JOINT IN BARREL 1.	LET OF ALL THREE BARRELS. TLET OF THE BARRELS OPEN 1/2 TO
3	F	L VERTICAL CRACKING IN ALL THREE BARRE	LS FOR FULL HEIGHT.
36a	Ν	and rt. shoulders 2' eed limit 45 mph	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 350067

County GASTON

Date: 08/18/2014

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3352	Maint Slope Protection	SF	6	THERE IS A 3' LONG X 2' BACK AREA OF EROSION ON THE EASTAPPROACH UNDER THE GUTTER AREA.	
3352	Maint Slope Protection	SF	20	ERODED AREA AT THE SOUTHWEST CORNER BEHIND THE SOUTHWEST WING. EROSION IS 5'LONG X 4'W X 2'H.	
3352	Maint Slope Protection	SF	10	TOEWALL EXPOSED AT THE INLET. 1'X2'L AT BARREL 1 AND 3 AND 2'H X 3' L AT INLET OF BARREL 2.	



Structure 350067

County GASTON

Condition Photos



THERE IS A 3' LONG X 2' BACK AREA OF EROSION ON THE EASTAPPROACH UNDER THE GUTTER AREA.



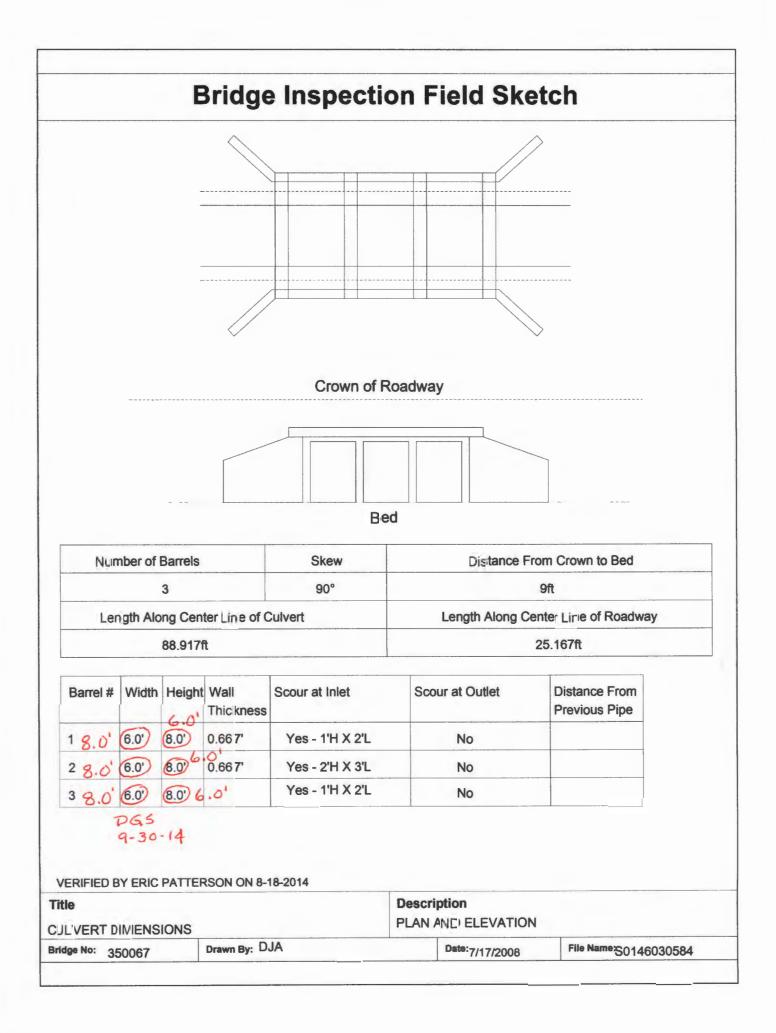
TOEWALL EXPOSED AT THE INLET. 1'X2'L AT BARREL 1 AND 3 AND 2'H X 3' L AT INLET OF BARREL 2.

County GASTON



ERODED AREA AT THE SOUTHWEST CORNER BEHIND THE SOUTHWEST WING. EROSION IS 5'LONG X 4'W X 2'H.

	Bridge inspec	ction Field Sket	icn
-		3' RAIL TO RAIL	
R	US-29 / US 74 (7 LAN	IES PAVED) ^{IEDIAN} 3 THRU LANES AND 1 TURI	
		RETE C & G	
•	GUARDRAILS A	TTACHED TO HEADWALLS	•
	Lef	t Lanes	
Roadway	33ft Wide	3 Paved Lanes	South Bound
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail			
Right Guardrail	2ft from road		
Median	4ft Wide	0.25ft High	
	Rig	ht Lanes	
Roadway	45.333ft Wide	4 Paved Lanes	North Bound
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail			
Right Guardrail	2ft from road		
VERIFIED BY ERIC PA	SPEED LIMIT 45 MPH TTERSON ON 8-18-2014		
e			
PROACH ROADWAY	Drawn By: DJA	LOOKING NORTH	



Structure 350067

County GASTON

Structure Photos



WEST APPROACH



EAST APPROACH

Structure 350067

County GASTON

Structure Photos



UPSTREAM



LOOKING UPSTREAM

County GASTON

Structure Photos



LOOKING DOWNSTREAM



DOWNSTREAM