

Bridge Maintenance Recommendations

Page No._ Page 1 of 1

Bridge Location No.: 75 - 01044 - 0.48

Co. Route Log Mile

Rutherford County: 03

Crossing: EPPS MILL RD / I24

Region:

Bridge Rating: **GOOD** District: 34

Inspection Cycle: 13

Maint.Resp.: 01

Spec.Case: 0

Inspection Date: 7/21/00

Co.Seq: 01

Comments: -0-

Number Main Spans:

002

Bridge Number: 75I00240041

Owner:

1 01

Number Appr Spans:

0000

Appr Rdwy (xxx ft):

Level of Service:

190

Bridge Length (xxxxxx ft) 000300

Skew:

80

Curb-to-Curb (xxx.x ft):

0280 0325

Type of Service:

11

Out-to-Out (xxx.x ft): Item 500:

11

Main Structure Type: Appr Structure Type:

402 000

Facility Carried By:

NFA 1044 (SA 7516)

Maintenance Recommendations:

Maintenance Completed By / Date

228	APPROACH GUARDRAILS ARE SUBSTANDARD						
230	REPAIR APPROACH GUARDRAILS AT APPROACH NO. 0001						
226	GUARDRAIL TERMINALS AT APPROACH NO.	ARE SUBSTANDARD					

BRIDGE MAINTENANCE RECOMMENDATIONS

BRIDGE SEQ. NO.: 75100240041	BRIDGE NO.: 75 - 01044 - 0048 - N OVER : EPPS MILL RD / 124
TE : 05/20/98 BRIDGE RATING CO. SEQ. : 01 INSPECTION CYC SPEC. CASE : 1 INSPECTION DATE	: GOOD COUNTY : Rutherford LE : 12 MAINT DIST : 34 E : 05/20/98 REGION : 03
007 - FACILITY CARRIED BY STRUCT: NFA 021 - MAINTENANCE RESPONSIBILITY: 01 022 - OWNER: 01 042 - TYPE OF STRUCTURE: 11 043 - STRUCTURE TYPE, MAIN: 402 044 - STRUCTURE TYPE, APPROACH: 000 045 - SPANS, MAIN UNIT: 002 046 - SPANS, APPROACH: 000 049 - STRUCTURE LENGTH: 000 032 - APPROACH ROADWAY WIDTH: 190 034 - SKEW: 80 051 - BRDG RDWY WID, CRB-TO-CRB: 028 052 - DECK WIDTH, OUT-TO-OUT: 032 500 - HWY OF THE INVENTORY ROUTE: 11	0 300
: MAINTENANCE & REPAIR RECOMMENDATIONS	
1 REPAIR APPROACH GUARDRAILS AT APPROACH NO. 0001 2 GUARDRAIL TERMINALS AT APPROACH NO ARE SUBSTANDAY 3 APPROACH GUARDRAILS ARE SUBSTANDARD	1 BY DATE 2 BY DATE 3 BY DATE
COMMENTS FOR BRIDGE SEQ. NO.: 75100	240041 :
COMPLETION NOTIFICATION : RETURN WITHIN	N 6 MONTHS OF INSPECTION DATE
MAINTENANCE ACTIVITIES ARE COMPLETED (DATE) PARTIALLY COMPLETE (DATE) INCOMPLETE SCHEDULED FOR (DAY	
	ГЕ)



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STRUCTURES DIVISION

BRIDGE INSPECTION AND REPAIR OFFICE

SUITE 1200, JAMES K. POLK BUILDING 505 DEADERICK STREET NASHVILLE, TN 37243-1403 (615) 741-0776

BUTCH ELEY

Deputy Governor Commissioner of Transportation GOVERNOR

November 29, 2022

To: Mason Pitt

Tennessee Department Of Transportation

Regional Bridge Engineer

Subject: New Weight Limit Posting Requirement

Bridge Federal ID No. 75100240041 Bridge Location No. 75 - 01044 - 0.48 Epps Mill Rd. over Epps Mill Rd / I24

Rutherford County

We have completed the most recent evaluation of the subject bridge and have determined that the bridge is now required to be posted for a gross weight limit of 40 tons for all vehicles.

The new weight limit posting signs shall be installed by December 13, 2022. Compliance with the weight limit posting requirements can be confirmed by taking photographs of all the bridge weight posting signs and emailing these photographs to TDOT.BridgeEval@tn.gov. Each photograph must show the face of the sign clearly so that the weight limit values can be confirmed.

Posting signs shall meet the minimum requirements of the MUTCD (Manual of Uniform Traffic Control Devices). See the attached "Tennessee Standard Weight Posting Signs" for additional details.

If structural repairs are completed, the TDOT Regional Bridge Engineer should be notified so a follow-up inspection can be completed. Please email any construction plans or as-built drawings to TDOT.BridgeEval@tn.gov so that we can better evaluate the work performed.

Should you have any questions, please advise.

Sincerely,

Ted Kniazewycz, PE Director of Structures

Ded A Frangewy of

BRIDGE ID: 75100240041 DATE: 1/23/2023



BRIDGE ID: 75100240041 DATE: 1/23/2023



Sterling Riether

From: Geremy Billingsley

Sent: Thursday, November 10, 2022 11:44 AM

To: Sterling Riether

Subject: RE: Asphalt Measurement 75100240041

Follow Up Flag: Follow up Flag Status: Completed

We measured a few different places from the top of the curb to the asphalt. It varied from 4.5'' - 5''. So there should be about 4" of asphalt. Am I correct?

Thank you,



Geremy Billingsley

Transportation Project Specialist Supervisor 1 Region 3 Bridge Inspection Building C, Unit 3421 6601 Centennial Blvd., Nashville, TN 37209 p. 615-350-5970 c. 615-339-4968 geremy.billingsley@tn.gov tn.gov/tdot

From: Sterling Riether <Sterling.Riether@tn.gov>
Sent: Thursday, November 10, 2022 9:58 AM

To: Geremy Billingsley <Geremy.Billingsley@tn.gov> **Subject:** RE: Asphalt Measurement 75I00240041

Just to be clear, is that 4" of asphalt? Or 4" from top of curb to top of asphalt?

Thanks,



Sterling Riether, P.E. | Transportation Project Specialist Structures Division / Bridge Inspection HQ James K Polk Building, 12th Floor 505 Deaderick St, Nashville, TN 37243-0338 p. 615-741-8388 Sterling,Riether@tn.gov From: Geremy Billingsley < Geremy. Billingsley@tn.gov >

Sent: Thursday, November 10, 2022 9:56 AM

To: Sterling Riether < Sterling.Riether@tn.gov >
Subject: Re: Asphalt Measurement 75100240041

We measured 4".



Geremy Billingsley

Transportation Project Specialist Supervisor 1
Region 3 Bridge Inspection
Building C, Unit 3421
6601 Centennial Blvd., Nashville, TN 37209
p. 615-350-5970 c. 615-339-4968
geremy.billingsley@tn.gov
tn.gov/tdot

On Nov 8, 2022, at 7:51 AM, Sterling Riether < Sterling.Riether@tn.gov> wrote:

That sounds great. No rush.

<image001.png>

Sterling Riether, P.E. | Transportation Project Specialist Structures Division / Bridge Inspection HQ James K Polk Building, 12th Floor 505 Deaderick St, Nashville, TN 37243-0338 p. 615-741-8388 Sterling,Riether@tn.gov

From: Geremy Billingsley < Geremy. Billingsley@tn.gov >

Sent: Tuesday, November 8, 2022 7:50 AM **To:** Sterling Riether < Sterling.Riether@tn.gov > **Subject:** RE: Asphalt Measurement 75100240041

Sterling,

Give me a few days and we can go out there. I was just out that way Friday but now we are in the opposite part of the county.

Thank you,

<image002.png> Geremy Billingsley

Transportation Project Specialist Supervisor 1 Region 3 Bridge Inspection Building C, Unit 3421 6601 Centennial Blvd., Nashville, TN 37209 p. 615-350-5970 c. 615-339-4968 geremy.billingsley@tn.gov tn.gov/tdot

From: Sterling Riether < Sent: Tuesday, November 8, 2022 7:46 AM

To: Geremy Billingsley < Geremy. Billingsley@tn.gov >

Subject: Asphalt Measurement 75I00240041

Good Morning Geremy,

I am working on the load rating for bridge 75I00240041 (Epps Mill Rd over I-24) and was hoping you could help me out. The asphalt with our old calculations seems inconsistent with what is in the field. The inspection report says 10" of asphalt, but I think it may be less based on the visibility of the curb. Would you be able to get some measurements from the curb to existing asphalt? The concrete curb is 9" tall.

I have attached the inspection report for reference. Thank you, Sterling

<image001.png>

Sterling Riether, P.E. | Transportation Project Specialist Structures Division / Bridge Inspection HQ James K Polk Building, 12th Floor 505 Deaderick St, Nashville, TN 37243-0338 p. 615-741-8388 Sterling.Riether@tn.gov



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION AND REPAIR OFFICE SUITE 1200, JAMES K. POLK BUILDING NASHVILLE, TENNESSEE 37243-0338

JOHN SCHROER COMMISSIONER BILL HASLAM GOVERNOR

MEMORANDUM

DATE:

May 20, 2015

TO:

Mr. Terry Mackie, Transportation Project Specialist Supervisor 2

FROM:

Mr. Terry D. Leatherwood, Civil Engineering Manager 1

Re:

Additional Asphalt on 75I00240041

We have checked the capacity of the bridge that you requested with an additional 1.5 inches of asphalt. The additional load would result in requiring a weight limit posting of the bridge. We recommend removing all existing asphalt and replacing it with a maximum of 3.25" with a membrane sealant.

TDL:stp

cc: Mr. Phillip Shraybman



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STRUCTURES DIVISION **BRIDGE INSPECTION & REPAIR OFFICE**

SUITE 1200, JAMES K. POLK BUILDING **505 DEADERICK STREET** NASHVILLE, TENNESSEE 37243-1402 (615) 741-0776

JOHN C. SCHROER COMMISSIONER

BILL HASLAM GOVERNOR

April 26, 2013

MEMORANDUM

TO:

Mr. Ray McClelland

Regional Bridge Engineer

FROM:

Wayne J. Seger, Director of Structures

SUBJECT: Attached is the newly added Repair List the following

Interstate bridge in Rutherford County:

Records to be added

Repair List	<u>Bridge Loc.</u>	<u>Fed. Bridge ID</u>	Crossing
Number	<u>Number</u>	<u>Number</u>	
1	75-01044-00.48	75100240041	Epps Mill Rd / I-24

Supplemental Evaluation Findings

Repair List	Bridge Loc.	Fed. Bridge ID	Crossing
Number	Number	Number	
1	75-01044-00.48	75100240041	Epps Mill Rd / I-24

PJS: pjs

cc: Mr. Terry Mackie

Mr. Phillip Shraybman

BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: RUTHERFORD

LOCATION: 75-01044-00.48-

CO. SEQ.: 1

SPEC. CASE: 0



CROSSING: EPPS MILL RD / I24 FED. BRIDGE NO.: 75100240041

MAINT. DIST.: 75

REPAIR LIST NO.:

DATE ADDED:

.: **1** 04/26/2013

REVISED:

FACILITY CARRIED:	NFA	1044 (SA	7516)	NUMBER OF MAIN SPANS:	2
HIGHWAY SYSTEM: 11-OTHER		R COUNTY	ROADS	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO C	URB):	27 FT	10 IN	BRIDGE LENGTH (FT):	300
BRIDGE WIDTH (OUT TO OU	Γ):	32 FT	5 IN	MAXIMUM SPAN LENGTH (FT):	150
APPROACH ROADWAY (W/SHO	ULDERS):	31 FT	9 IN	SKEW ANGLE (DEGREES):	80
MAINTAINED BY:				STATE HIGHWAY AGENCY	
MAIN SPAN MATERIAL:				STEEL CONTINUOUS	
MAIN SPAN DESIGN TYPE:		STI	RINGER	MULTI-BEAM OR GIRDER	
APPROACH SPAN MATERIAL:			OTH	HER OR NOT APPLICABLE	
APPROACH SPAN DESIGN TY	PE:		OTH	ER OR NOT APPLICABLE	
INSPECTION DATE:	06/26/2012	:	G	ENERAL CONDITION:	GOOD
EVALUATION DATE:	07/31/2012	<u>-</u> !	S	TRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:		-			
H TRUCK RATING @ INV.:	15 TONS	-	S	UFFICIENCY RATING:	70.1

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	CLEAN EXPANSION JOINTS AT BOTH ENDS		!
2.	MILL/REPLACE A/C WEARING SURFACE		
3.	EXTEND EXPANSION JOINTS OUT BEYOND BRIDGE RAIL		1
4.	CLEAN SHOULDERS		

GENERAL COMM	ENTS:		
GENERAL COM	ENIS.		
	<u></u>		



SUPPLEMENTAL EVALUATION FINDINGS FOR RUTHERFORD COUNTY

Date:

Apr 26, 2013

Repair List: 1

Bridge No.:

75100240041

Route No.:

01044

(EPPS MILL RD.)

Log Mile:

0.480

Crossing:

EPPS MILL RD / 124

Supplemental Recommendation(s):

THIS BRIDGE WAS INSPECTED ON FEB. 19, 2013 FOR COLLISION DAMAGE TO GIRDER "D". A REPAIR CONTRACT TO FIX THE COLLISION DAMAGE IS TENTATIVELY SCHEDULED FOR MAY 24, 2013.

NOTE: This Form is to be used in conjunction with the current Bridge Maintenance Recommendations pertaining to this structure.

REV. 03-05-2003

TENNESSEE BRIDGE INSPECTION PROGRAM SUMMARY OF EVALUATION

BRIDGE ID NO: 75100240041 LOCATION NO: 75 - 01044 - 0.48

(6A) CROSSING: EPPS MILL RD / I24

(505) METHOD OF ANALYSIS: LOAD RESISTANCE (548) RATING BASED ON: AASHTOWARE BRIDGE

FACTOR METHOD - RF

RATING (4.5" ASPHALT)

LOAD RATINGS IN TONS

INVENTORY (503) H	19	(518B) HS/HL93	21
OPERATING (504) H	25	(519) HS/HL93	27
REQ. POSTING:	40		40

(549) EVALUATOR: SJR (522) EVAL. DATE: 7/14/2022 LAST UPDATED BY: RIETHER

(29) ADT: 3,334 (30) ADT YR: 2021

(100) STRAHNET ROUTE: NO

(19) DETOUR LENGTH: 16 KM

(520) VC OVER RDWY: 99.99 METERS

<u>CONDITION RATINGS</u> <u>APPRAISAL RATINGS</u> <u>CODE VALUES</u>

(58) DECK RATING:	6	(67) STRUCTURAL EVALUATION:	5	N - NOT APPLICABLE
(59) SUPERSTRUCTURE RATING:	6	(68) DECK GEOMETRY:	4	9 - EXCELLENT CONDITION
(60) SUBSTRUCTURE RATING:	7	(69) UNDER CLEARANCE:	5	8 - VERY GOOD CONDITION
(61) CHANNEL PROTECTION:	N	(70) BRIDGE POSTING:	5	7 - GOOD CONDITION
(62) CULVERT RATING:	N	(71) WATERWAY ADEQUACY:	Ν	6 - SATISFACTORY
(113A) NBIS SCOUR CODE:	N	(72) APPROACH RDWY ALIGNMENT:	8	5 - FAIR CONDITION
(113B) TDOT SCOUR CODE:				4 - POOR CONDITION
OTHER RATING ITEMS				3 - SERIOUS CONDITION
OTHER RATING ITEMS				2 - CRITICAL CONDITION
(521) OVERALL CONDITION:	F			1 - FAILURE IS IMMINENT
(513) TEXTURE COAT RATING:	Ν	(36) TRAFFIC SAFETY		0 - FAILED CONDITION
(514) PAINT CONDITION RATING	:4 05	UK FEATURES: 0 1 1 I	N	
(41) WEIGHT POSTING CODE:	Α	(525) REPAIR LIST NO:	N	
		<u> </u>		

COMMENTS

SEE BARS FILE 75-024.DAT FOR AN ANALYSIS OF THE FIRST INTERIOR GIRDER. THERE IS A 9" CURB. AFTER LOOKING AT THE REPORT AND THE PICTURES, IT APPEARS TO BE APPROXIMATELY 5" BETWEEN THE TOP OF THE CURB AND THE ASPHALT. THEREFORE, USE 4" OF ASPHALT ON THE DECK. ASSUME THE EXTERIOR GIRDERS CARRY 85% OF THE CURB AND BRIDGERAIL WEIGHT. CHECKED THE GIRDER AND THE CONCRETE DECK. THE BRIDGE RATING IS CONTROLLED AT THE 1.40 POINT BY THE GIRDER. THE RATINGS REFLECT UPDATED CALCULATIONS PERFORMED ON 02/14/2012.

IN 2013 THE BRIDGE HAS SUSTAINED A COLLISION DAMAGE TO THE EXTERIOR STEEL GIRDER "D" AND CROSS FRAMES IN SPAN NO.2. REPAIRES HAVE BEEN COMPLETED IN 2013. (PJS)

(529) FUNC. OBSOLETE: NO



Bridge Condition Coding Form

County: 75

Route:

01044

Special Case:

Bridge Number: (Includes Item 5A)

751002400411

County Sequence:

01

Feature Intersected:

EPPS MILL RD / I24

Log Mile: 0.48

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM#	DESCRIPTION V	ALUE	CONDITION CODING GUIDELINES
90	INSPECTION DATE 07/2	21/2000	(Values for Coding Items 58, 59, 60 and 62)
	_ <u>(_1_7</u>	1102	N NOT APPLICABLE
10	MINIMUM V.C. OVER DECK 99 F (ROADWAY + SHOULDERS)	T. 99 IN.	9 EXCELLENT CONDITION
520	F	T IN. T. 99 IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
520	(EXCLUDES SHOULDERS)	1. 33 1	7 GOOD CONDITION - SOME MINOR PROBLEMS.
36	TRAFFIC SAFETY FEATURES	T IN.	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	Br. Rail Trans. Appr. Rail Terminal	SPEED LIMIT	5 FAIR CONDITION - ALL PRIMARY
	1 0 0 0	UNKNOWN	STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED A K P	A	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	7	3 SERIOUS CONDITION - LOSS OF SECTION,
			DETERIORATION, SPALLING OR SCOUR HAVE SERIOURSLY AFFECTED PRIMARY
59	SUPERSTRUCTURE	7	STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS
			IN STEEL OR SHEAR CRACKS IN CONCRETE
60	SUBSTRUCTURE	7	MAY BE PRESENT.
61	CHANL/CHANL PROTECTION	N	2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR
62	CULVERT AND RETAIN WALL		SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED
02	COLVERT AND RETAIN WALL	N	SUBSTRUCTURE SUPPORT. UNLESS
-4	WATERWAY AREQUARY		CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL
71	WATERWAY ADEQUACY	N	CORRECTIVE ACTION IS TAKEN.
	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	6 8	1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL
521	OVERALL CONDITION (Circle One)	<u>v</u>	COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING
(GOOD FAIR POOR	CRITICAL	STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE.

TEAM LEADER SIGNATURE

le /21/02

REVIEW DATE

0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.

M.C.



Underpass Condition Coding Form

County:	75

Route:

10024

Special Case:

0

Bridge Number: (Includes Item 5A)

751002400412

County Sequence:

01

Feature Intersected:

EPPS MILL RD / 124

Log Mile: 25.73

SAFETY FEAT	
cists but Nee	
sed Barrier Type	
CY OF R OR RAIL	0
CY OF FIONS	0
CY OF ALS	0
LEARANCE HEIGHT POSTII	
_ FT I	N.
YES[AT HES? NO []	N.
Lac	
	HES? NO [

Kare Augi COR

le 121 102

TEAM LEADER SIGNATURE

REVIEW DATE



Bridge Condition

Coding Form

County: 75

Route:

01044

Special Case:

0

Bridge Number: (Includes Item 5A)

751002400411

County Sequence:

Feature Intersected:

EPPS MILL RD / 124

121100

DATE

Log Mile: 0.48

CODE ONLY THOSE NUMBERS WHICH HAVE CHANGED

ITEM# DESCRIPT	ION	VALUE
90 INSPECTIO	ON DATE	5/1/98
	0	712/100
	V.C. OVER DECK Y + SHOULDERS)	99 FT. 99 IN.
	_	FT IN.
	V.C. OVER DECK S SHOULDERS)	99 FT. 99 IN.
		FT IN.
	VERTICAL EARANCE H S SHOULDERS)	16 FT. 2 IN.
Circle One	e: H R N _	FT IN.
36 TRAFFIC S	AFETY FEATURES	3
Br. Rail	Trans. Appr. R	lail Appr. Rail Ends
1	0 0	0
41 STRC OPE	N/CLOSED/POSTE	D A
Α	К Р	р ш
58 DECK		7
59 SUPERSTR	RUCTURE	7
60 SUBSTRUC	TURE	7
61 CHANL/CH	ANL PROTECTION	 N
OT OTTAINE/OTT	ANETROTEGION	1
62 CULVERT A	ND RETAIN WALL	- N
	RDWY ALIGNMEN ES OF 3, 6, OR 8)	1T -6-7
OVERALL C	ONDITION (Circle	One)
GOOD	•	
	FAIR PO	OOR CRITICAL

SIGNATURE

COMMENTS

RATINGS FOR CODING ITEMS 58, 59, 60 AND 62

- N NOT APPLICABLE
- **EXCELLENT CONDITION**
- **VERY GOOD CONDITION -**PROBLEMS NOTED.
- 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 SERIOURSLY 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 BACK IN LIGHT SERVICE.
- **FAILED CONDITION OUT OF SERVICE AND** BEYOND CORRECTIVE ACTION.



Underpass Condition

Coding Form

County:	75

Route:

I0024

Special Case:

0

Bridge Numbe	er:
(Includes Item	5A)

751002400412

County Sequence:

Feature Intersected:				oou,y	1		
		EPPS MILL RD / 12	24		Log Mile:	25.74	
CODE	ONLY THOSE	NUMBERS WHICH HAVE	CHANGED				
ITEM#	DESCRIPTION	I	VALUE		UNDERPASS	SAFETY FE	ATURES
90	90 INSPECTION DATE		5/1/98		(A) TYPE UI	NDERPASS B	ARRIER
			07 12110	2_	None Ex	xists but N	eeded
10	MINIMUM V.C. (ROADWAY+	OVER DECK SHOULDERS)		IN.	1/21	- Exic	1 , , , ,
520	MINIMUM V.C.		FT 16 FT. 2	IN.	l	ised Barrier Ty	
	(=	···-,	FT	IN.	(B) ADEQUAC	CY OF	0
47	TOTAL HORIZ		99 FT. 99	IN.			
	ONDERCEEN	NATIOE .	FT	IN.	(C) ADEQUAC		0
55	MINIMUM LAT	ERAL RANCE ON RIGHT SIDE H	36 FT. 5	IN.	(D) ADEQUAC		0
		Circle One: H R N	FT	IN.	VERTIC	AL CLEARA	NCE
56	MINIMUM LAT	ERAL RANCE ON LEFT SIDE	52 FT. 1	IN.		ED ON HEIGH STING SIGNS	
	UNDERGEEAR	ARIOE OR EET TOIDE	FT	IN.	99	FT. 99	IN.
OVER/	ALL CONDITIO	N (Circle One)	_			FT I	in.
GOOD	FAIR	POOR CRITICAL	HEIGHT I BOTH API		VECI] NO[] N	√A []
NOTE:	OR PRIVATE I SEVERELY SPA	PROBLEMS ON BRIDGES THAT BRIDGES) THAT WOULD AFFEC ALLED OR CRACKED CONCRETE PROBLEMS ON PROBLEMS OF THE AN	T THE ROADWAY SU C, EXCESSIVE SECT	UCH AS L	OOSE MEMBER	s,	
COMME	ENTS	<u> Le Summar</u>	ing				
							10F1
							-
		1.11.10 - 0					
	١ .						

SIGNATURE

7/21/00 DATE

Bridge No.: Crossing:: Federal No.: 00075 — 124 -25.74

July 21, 2000

Date:

BRIDGE NUMBER

PIC1

124 -29.88RT 75 —

Bridge No.: Crossing:: Federal No 0 July 21, 2000 0 Date:



ELEVATION (WBL)

PIC2

PIC3



VIEW ACROSS DECK

<u>ROUTI</u>	<u>NE BR</u>	<u>IDGE INSP</u>	<u>ECTIO</u>	N REPOR	<u>T</u>	Page No
Form BIR 3.0C			Fie	id Report No.	12 D	Date 5/20/98
(Rev. 9-22-98)			Previou	ıs Report No.)ate 7.21.00
DT-1537				Plans:	ues	
Bridge No. 75I00240041			Bridge	Location No.	•	044 - 0.48
Eleven Digit No.					Co. Ro	oute Log Mile
	ove	er EPPS MILL R			depth Insp. R	
Road Name		Cr	ossing	•	•	imits under comment
Structure Type WPG				FR	ACTURE (CRITICAL:
FEATURE CHANGES:	_					
Wearing Surface	Type			_ Depth	(in.)	
Bridge Rail	Describ	e changes:				
Approach Rail)	41		L - J - · · · · · · · ·			
CLEARANCE CHANGES:		f yes make changes	below)	1.1	INSPEC'	<u>TORS</u>
Vertical Clearance over dec Vertical Under Clearance	ж	(ftin.)		_Natte	<u> </u>	
Horizontal Under Clearance	, ——	(ftin.) (*.* ft.)		<u>Love</u>		
Deck Width Curb/Curb	, 	(. it.) (*.* ft.)		_ Etherin		
Deck Width Rail/Rail		(*.* ft.)		•)	
Sidewalk Width Rt.		Lt.				
		in comments)	·			
		in comments)		<u>Comment</u>	<u>s</u>	
Approaches	G	1. 5.				
Deck Condition (Item 58)	NV	AC Over	- Kuy	(7000, (-91 - Mai	o wear
Superstructure (Item 59) a. Beams	9					_
b. Bearings	G					
c. Diaphragms	191					
Substructure (Item 60)	GGG					
a. Caps/Bridge Seats	<u>G</u>					
b. Columns/Piles	<u> </u>					
c. Footings	NV	-				
d. Wing W./Breast W.	6					
Scour/Erosion	NA					
Channel (Item 61)	NA					
UNDERWATER INSPECTION	NC			Weigh	t Limit Post	ted
To Be Performed By:				_		Tons
Date Underwater Insp/	VIA		_			
BRIDGE is:	1	_			A.d	
				3 OF M	ore Axles	Tons
COMMENTS:						
		\				
		\ 11				
Supervising Bridge Inspecto	r:	j Wati	5_	BRIDGE	RATING:	GOOD

Supervising Bridge Inspector:

SUMMARY 75-1044-0.48 7/21/00

Bucanan Rd./I24 2 Span/Cont. W.P.G.

This bridge was inspected and found to be in good condition. The approach guardrail and terminals are substandard with areas of moderate to heavy collision damage. The bridge rails are good and approved. The asphalt-wearing surface is good. The strip seal joints are in fair condition with moderate debris. All steel has been repainted and is in good condition. The diaphragm at the abutments do show some light loss of section on the flanges, but have new paint. The bent cap and columns are good. There are no underpass safety features.

Jim Watts

BRIDGE INSPECTION REPORT

FORM BIR 3.0 Rev. 3-1-97 PRE DT-0069	FIELD REPORT NO. DATE 5-20-98 VIOUS REPORT NO. DATE 6-20-96 PLANS YES [X] NO []
ELEVEN DIGIT NO.	LOC. NO. <u>75 - 1044 - 0.48</u> ((LOG km)
ROAD NAME OVER T24-25.74	SECTED STRUCTURE NAME (IF NAMED)
YEAR CONSTRUCTED 1968 COUNTY RUTHE (ESTIMATED OR ACTUAL)	REFORD MAINTENANCE DISTRICT NO.34
YEAR WIDENED ESTIMATED OR ACTUAL	EAR REHABILITATED
l j l j	ESTIMATED OR ACTUAL [] []
FEATURES WEADING SUDFACE CONCRETE [] TIMES	PD () ACRUAIM & A (DEDMU)
WEARING SURFACE CONCRETE [] TIMBE FLARED WIDTH YES [] NAVIGATIONAL CONTROL YES [] NEDIAN WIDTH OPEN [] NON	R [] ASPHALT [X] (DEPTH=mm) O [X] O [X] E [X] CLOSED []
BRIDGE SKEW 80° LT [] RT [X]	INSPECTORS
STRUCTURE TYPE WPG NO Main Span	o. SPANS 2 1. Furlough
STRUCTURE TYPE NO Approach Spans	3. Hailev
MAXIMUM SPAN LENGTH 45.72 TOTAL LE	Approach Spans 4. Johnson INGTH 91.44 5
WIDTHS (*.**m) CLEARA	
WIDTHS (*.**m) DECK OUT-TO-OUT 9,88 MIN. VERTICE ROADWAY CURB/CURB 2.53 MIN. VERTICE	CAL OVER DECK — 7.
ROADWAY CURB/CURB 8.53 MIN. VERTICE SIDEWALK RT LT MIN. LATERA	L UNDER CL 11.00 RT 8.
*APPROACH ROADWAY 6.10 APPR. SHLD. 91 RT 91 LT *DOES NOT INCLUDE SHOULDER	15.88 LT 9.
UNDERWATER INSPECTION	(< 7.62 m)
INSPECTION PERFORMED BY:	NBIS BRIDGE LENGTH > 7.62
DOT FIELD TEAM [] DATE	LENGTH > 7.62 (*.**m)
CONTRACT DIVERS [] DATE NONE REQUIRED []	FRACTURE CRITICAL
CHANGE IN STRUCTURAL CONDITION YES MAJOR REPAIRS MADE YES	DETAILS: YES [] NO [IF YES, INCLUDE BIR 3.9
COMMENTS:	
2 111	
/ /	RIDGE RATING [] [] [] GOOD FAIR POOR CRITIC
SUPERVISING BRIDGE INSPECTOR	
NAME: UNITED AMBROWICE NAMED MEXCU	DEVENOR ADD DO DE DAVEN DO DNO /2)

NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

FORM BIR 3.1 Rev. 3-1-97 I DT-0080	BRIDGE LOC.	NO. 75	- <u>1044</u> - ROUTE	O.48 (LOG km)	DATE:	
PERFORMANCE EVAL	LUATION						
Time of day in	nspected <u>//</u>	1:40 AM	[Weathe	r condi	itions S	sunny a	80°
Vehicles obse	rved <u>A//</u>	Type	ع				
LIVE LOAD BEH Substructus Horiz. Vibration	re & Vert. Def]	 	<u>YES</u> []	NO T		COMMENTS	
Superstruc Horiz. Vibrati	& Vert. Defl	L 	[]	T H			
APPROACH Alignment Slab Joints Pavement Embankment Drains	ලා ප පලාලා	F P F P P P P P P P P P P P P P P P P P		4			
TRAFFIC SAFETY	FEATURES						
Bridgerail Transition Guardrail Guardrail	ing (6 s G G Terminal G	P P P	STANI C [C [C [UB-STAND	Too Low	mod Co
SIGNING							
Paddleboar	ed		[s no		WEIGHT LIM YES []	
Vertical C	learance (<	4.4 m)-	[] 1	[]	GROSS	T
Narrow []	One Lane	Bridge [] - [] [/	[]	2 AXLE	T
						3 OR MORE	T
Other Sign	ns or Plaque	s		`			
Comments F	Regarding An	y Proble	ems With	Signin	ıg		
RECOMMENDATIONS	3	•					
Bridgerail Approach I	r I Is Substan Rail Is Subs Addleboard S	tandard			l Post Approac	Load Limit h	Signs

The first of the second of the

FORM BIR 3.2 Rev. 3-1-97 BRID DT-0081	GE I	OC	. N	·7	5 - 1044 - 0.48 () DATE: 5-20-98
DECK					COMMENTS
WEARING SURFACE DECK - STRUCTURAL CONDITION CURBS MEDIAN SIDEWALKS PARAPET RAILING PAINT DRAINS LIGHTING STD'S UTILITIES JOINT LEAKAGE EXPANSION JOINTS		F F F F F F F F	P P P P P P P P P P P P P P P P P P P	00 0000000000	A C overlay NA NA NA NA NA NA NA NA NA N
SUPERSTRUCTURE					COMMENTS
BEARING DEVICES GIRDERS OR BEAMS FLOOR BEAMS STRINGERS DIAPHRAGMS BRACING TRUSSES - GENERAL - PORTALS - BRACING PAINT ALIGNMENT OF MEMBERS	G G		PPPPPPP	0000000000	NA NA NA NA NA
TEXTURE COAT NA					
CONDITION RATING	G	F	P	С	FADING G F P C
OVERALL APPEARANCE	G	F	P	С	NEEDS SPOT PAINTING? YES [] NO [
STAINING	G	F	P	С	NEEDS REPAINTING? YES [] NO [
COMMENTS:	_				SCALING G F P C

and the control of th

Rev. 3-1-97 DT-0082	BRIDGE LOC. NO. 75 - 1044 CO. ROUTE	$= \frac{O.48}{L.M.} \left(\frac{1}{LOG \text{ km}}\right)$	DATE: 5-20-98
SUBSTRUCTURE			
ABUTMENTS	COMMENT	<u>5</u>	PILES TO BE REPLACED
CAPS BREASTWALL WINGS BACKWALL PLUMB FOOTING PILES EMBANKMENT BEARING# SLOPE PAVING	G F P C C C C C C C C C C C C C C C C C C		PILE(S) BENT
PIERS			
CAPS COLUMNS PLUMB FOOTINGS PILES BEARINGS	G F P C		
BENTS	•		
CAPS COLUMNS PLUMB FOOTINGS PILES BEARING\$	G F P C C C C C C C C C C C C C C C C C C		
	PILES NEED REPLACEMENT	NO JYES []-	
	CUT VEGETATION	NO [YES []	
	CLEAR DRIFT	NO YES []	
RECOMMENDATIO	ns:		

FORM BIR 3.3 Rev. 3-1-97

NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

FORM BIR 3.0A Rev. 3-1-97 DT-1443

BRIDGE NO. 75 I 00240041

CURRENT FIELD REPORT NO. /2 DATE 5-20-98
PREVIOUS FIELD REPORT NO. // DATE 6-20-96

UNDERPASS LOC. NO. <u>75 - I24 - 25.74</u> (

INSPECTION REPORT FOR UNDERPASS ROUTE

ELEVEN DIGI						co.	ROUTE	L.M.	(LOG kr
75-1044 - 0.48 (CO. RTE. L.M. (LOG ki	_) OVER 7_	<u>s-</u>	ĮΖ	4 - 25	5.74 ()			•
CO. RTE. L.M. (LOG ki	n) C	:o.	RT	E. L.	M. (LOG	km)	S'	TRUCTUR	E NAME
COUNTY RUTHERFORD									
YEAR CONSTRUCTED 196 ESTIMATED [] ACTUAL	[X] & Aeul	8 W:	IDE	NED _		YEA	AR REHA	BILITAT	ED
GEOMETRIC FEATURES UN	DER BRIDG	<u>SE</u>							
TYPE OF WEARING SURFAMING OF APPROACH TRAINED THE MEDIAN IF DISTANCE BETWEEN PIESUBSTRUCTURE A/A m *WIDTH OF SIDEWALK UN *MINIMUM VERTICAL CLE *SHOW ON SKETCH TRAFFIC SAFETY FEATUR	CE VELED ROA VIDED HIG TH /.27 m UNDER BE R PROTECT (RT.) // DER BRIDG ARANCE	- () ADW/ EHW/ RID(RID(CIO) A 1	CON AY AY RT. GE N G N ()	CRETE 7.32 r 33.83 r 3.0 37.74 UARDRA LT.) A m (1	[]	ASPH# NOT]) ⊢_m (LT MELUDE	GRA SHOULI	VEL [] DERS)
PIER PROTECTION RAILI	NG G	T.	P	С		[]	r] NON	EXIST &
OR PARAPET APPROACH GUARDRAIL				_			L	1 NON	EXIST 4
TRANSITIONS	G G	F	P	C		[]	[] NON	EXIST {
APPROACH GUARDRAIL APPROACH GUARDRAIL	G	F	P	С		[]	[] NON	EXIST [
TERMINAL	G	F	P	С		[]	[] NON	EXIST [
SIGNING FOR UNDERPASS	ROUTE							TNSDI	ECTORS
PADDLEBOARD	YES []		NO	W	NEEDED	[]			
VERTICAL CLEARANCE	vec t i					, ,		Furl	
(< 4.4 m) NARROW PASSAGE	YES []		NO		NEEDED NEEDED	l J	2.	Hall	
ONE LANE PASSAGE	YES []		NO		NEEDED	וֹ זֹ		John	ison
							5.		
							6.		

UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2)

DECIMAL PLACES IN METERS.

FORM BIR 3.0A (CONTINUED)	PAGE 2 OF
Rev. 3-1-97 DT-1443 UNDERPASS LOC. NO. 75 - T24 - 25.74 (LT LN CO. ROUTE L.M. (LOG kn	_) n)
OTHER SIGNS OR PLAQUES	
COMMENTS REGARDING ANY PROBLEM WITH SIGNING	
BRIDGE FEATURES	
BRIDGE SKEW 80 ° RT STRUCTURE TYPE	
STRUCTURE TYPE NO. SPANS APPROACH SPAN APPROACH SPAN	
WIDTH OF BRIDGE OUT-TO-OUT 9.88 m (RIGHT ANGLE TO CENTERLINE (WIDTH OF BRIDGE ALONG SKEW m (IF UNABLE TO MEASURE AT RICE OF BRIDGE)	OF BRIDGE) GHT ANGLE
NUMBER OF LANES TRACKS ON BRIDGE _ Z_	
BRIDGE CONDITION G F P C	
DOES POTENTIAL EXIST FOR ELEMENTS FROM BRIDGE FALLING ON ROADWAY BENEATH? YES [] NO []	

NOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) OF THESE FORMS, ONE FOR EACH ROADWAY.

COMMENT ON ANY CONDITIONS OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH

DOES POTENTIAL EXIST BECAUSE OF DETERIORATED CONDITION OR FAILURE

MINIMUM PICTURES REQUIRED

- 1. ELEVATION VIEW OF BRIDGE ON BOTH SIDES SHOWING UNDERPASS
- 2. VIEW SHOWING BOTH APPROACHES TO BRIDGE

OF MAJOR MEMBERS? YES [] NO

- VIEW SHOWING SAFETY FEATURES
- 4. VIEW SHOWING ANY PROBLEMS

NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

FORM BIR 3.0A Rev. 3-1-97 DT-1443

NOTE:

DECIMAL PLACES IN METERS.

CURRENT	FIELD	REPORT	NO.	51	DATE	5-20-9	~
PREVIOUS	FIELD	REPORT	NO.	11	DATE	219-05-0)	=

INSPECTION REPORT FOR UNDERPASS ROUTE

BRIDGE NO. 751 00240 ELEVEN DIGIT	041 00.		U	NDE	RPASS	LOC. NO	·ユ	<u>5</u> - <u>I</u>	STA STA	<u>25</u> -	<u>74</u> 4.	(LOG k	m.
75- <u>/044-0.48</u> (CO. RTE. L.M. (LOG kr	_) OV:	ER 7	<u>'S</u> -	<u>T</u> 2 TR	<u>4</u> - <u>25</u> E. L	.74 (.M. (LOG	kr	_) _ n) _	S'	TRUC'	TUR	E NAME	
COUNTY RUTHERFORD													
YEAR CONSTRUCTED <u>196</u> ESTIMATED [] ACTUAL	[X] &	YEA	R W	IDE	NED _		7	YEAR F	REHA	BILI	ГАТ	ED	
GEOMETRIC FEATURES UNI DIVIDED HIGHWAY TYPE OF WEARING SURFACE	- LE	FT :	 RDW	Y []	RIGHT R	DW:	Y 💢	r\/1	N.A.	[]	
WIDTH OF APPROACH TRA' WIDTH OF MEDIAN IF DI' APPROACH SHOULDER WID	VELED	RO.	ADW GHW	AY AY (<u>7.32</u> 33.83	m (DOES m	NO'	r incl	LUDE	SHO	ULD	ERS)	
*HORIZONTAL CLEARANCE *DISTANCE BETWEEN PIE SUBSTRUCTURE ~ // A m	UNDE R PRO	R B	RII TIC	GE N G	37.58 UARDR	MAIL AND	,						
*WIDTH OF SIDEWALK UN *MINIMUM VERTICAL CLE	DER B	RID	ĢΕ	NIA	+ m (RT.) ~)	<u>A-</u> ,	m (LT	.)				
*SHOW ON SKETCH					`	•						-	
TRAFFIC SAFETY FEATUR	ES FO	<u> </u>	<u>nd</u>	RPA	SS RO	UTE STA	ND.	ARD S	υв- <u>s</u>	TAND	ARE	<u>.</u>	
PIER PROTECTION RAILI OR PARAPET				P			[]	[] N	ON	EXIST [
OR PARAPET APPROACH GUARDRAIL TRANSITIONS APPROACH GUARDRAIL	,	G	F	P	C		Ĺ]	Ĺ] N	ON	EXIST [-
APPROACH GUARDRAIL APPROACH GUARDRAIL	-									I N	ON	EXIST [-
TERMINAL		G	F	P	С		[]	[] N	NO	EXIST [ŀ
SIGNING FOR UNDERPASS	ROUT	E								ΤN	CDE	CTORS	
PADDLEBOARD VERTICAL CLEARANCE	YES	[]		NO	M	NEEDED	[]	1.	_		our d	
(< 4.4 m)	YES	[]			H	NEEDED	[}	2.	we	77	-3	_
NARROW PASSAGE ONE LANE PASSAGE	YES YES	[]		NO NO	17	NEEDED NEEDED	[]	3. 4.		<u>a1/</u> 24n	son	_
		. ,		-	~ ,		•	-	5.				_
									6.				_

UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2)

FORM BIR 3.0A (CONTINUED)
Rev. 3-1-97 DT-1443 UNDERPASS LOC. NO. 75 - T24 - 25.74 (RT W) CO. ROUTE L.M. (LOG km)
OTHER SIGNS OR PLAQUES
COMMENTS REGARDING ANY PROBLEM WITH SIGNING
BRIDGE FEATURES
BRIDGE SKEW 80 ° RT
STRUCTURE TYPE WPG NO. SPANS C
STRUCTURE TYPE MAIN SPAN STRUCTURE TYPE APPROACH SPAN MAIN TYPE NO. SPANS APPROACH TYPE MAXIMUM SPAN LENGTH 45.72 m TOTAL LENGTH 91.44 m
STRUCTURE TYPE NO. SPANS
APPROACH SPAN APPROACH TYPE
MAXIMUM SPAN LENGTH 45.72 m TOTAL LENGTH 91.44 m WIDTH OF BRIDGE OUT-TO-OUT 988 m (RIGHT ANGLE TO CENTERLINE OF BRIDGE)
WIDTH OF BRIDGE OUT-TO-OUT 9.88 m (RIGHT ANGLE TO CENTERLINE OF BRIDGE) WIDTH OF BRIDGE ALONG SKEW (IF UNABLE TO MEASURE AT RIGHT ANGLE
TO CENTERLINE OF BRIDGE)
NUMBER OF LANES/TRACKS ON BRIDGE Z TO CENTERLINE OF BRIDGE)
BRIDGE CONDITION G F P C
DOES POTENTIAL EXIST FOR ELEMENTS FROM BRIDGE FALLING ON ROADWAY
DOES POTENTIAL EXIST BECAUSE OF DETERIORATED CONDITION OR FAILURE

NOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) OF THESE FORMS, ONE FOR EACH ROADWAY.

COMMENT ON ANY CONDITIONS OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH

MINIMUM PICTURES REQUIRED

- ELEVATION VIEW OF BRIDGE ON BOTH SIDES SHOWING UNDERPASS
- 2. VIEW SHOWING BOTH APPROACHES TO BRIDGE

OF MAJOR MEMBERS? YES [] NO [

- VIEW SHOWING SAFETY FEATURES 3.
- VIEW SHOWING ANY PROBLEMS

NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

FORM BIR 3.0A 12-14-84 CURRENT FIELD REPORT NO. 9 DATE 7/24/91
PREVIOUS FIELD REPORT NO. 8 DATE 7/12/89

DT -1443 STATE FORM #

INSPECTION REPORT FOR UNDERPASS ROUTE

UNDERPASS LOCATION NO.	<u>75</u> -	- <u>I24</u>	<u>- 25.74</u>		OVER	HEAD	BRIDGE			044-048
EPPS MILL RD. NFA 1044 OVER TYPE OF SERV	T2.				STR	<u>ocru</u>	RE NAME			. L.M.
COUNTY RUTHER FORD										
YEAR CONSTRUCTED 196 ESTIMATED [] ACTU	AL [X]	YEAR W	VIDENED			Y	EAR REH	ABILITA	ATED	
GEOMETRIC FEATURES UND	ER BRID	<u>GE</u>								
DIVIDED HIGHWAY LE TYPE OF WEARING SURFAC WIDTH OF APPROACH TRAV WIDTH OF MEDIAN IF DIV APPROACH SHOULDER WIDT *HORIZONTAL CLEARANCE *DISTANCE BETWEEN PIER WIDTH OF SIDEWALK UND *MINIMUM VERTICAL CLEA * SHOW ON SKETCH	ELED ROP IDED HIC H <u>4'</u> UNDER BI PROTEC' ER BRID	ADWAY GHWAY FT.(I RIDGE TION GU	24' FT. /// FT. /// FT. /// JARDRAIL AN // FT. (RT.	(DOF FT.(<u>///</u> ND SUE .) //	ES NOT (LT.) _IN. ESTRUC	INC	LUDE SHO	OULDER		FT.(LT.)
TRAFFIC SAFETY FEATURE	S FOR U	NDERPA	SS ROUTE							
APPROACH GUARDRAIL	G I	F P	С	Ţ	J	<u></u> []	NONE	EXIST	[×]
APPROACH GUARDRAIL TERMINAL	G I	F P	С	[]	ÀBL]	NONE	EXIST	[X]
APPROACH GUARDRAIL TRANSITIONS	G :	F P	С	PTAE].	<u>a</u> []	NONE	EXIST	[X]
PIER PROTECTION RAILIN OR PARAPET		F P	С	ACCE]].]	UNACCEPTABLE]	NONE	EXIST	נאט
SIGNING FOR UNDERPASS	ROUTE						. -			<i>3.</i> -
PADDLEBOARD BRIDGE NUMBER	ÄES [ÄES [ио [] ио [Х]		DED [_			•	
VERTICAL CLEARANCE (< 14')	YES []	[X] ON	NEE	DED [3				
NARROW PASSAGE	YES []	NO [x]	NEE.	DED []				
ONE LANE PASSAGE CURVE	YES [7	[X] ON [X]		DED [
PEED LIMIT	YES [NO [X]		DED [

רת	r _ 1	14	4	3
	-	1 🕶	-4	

OTHER SIGNS CR PLAQUES	··
COMMENTS REGARDING ANY PRO	OBLEM WITH SIGNING
BRIDGE FEATURES	
BRIDGE SKEW 806 RT STRUCTURE TYPE 42 P.G.	NO. SPANS 2
STRUCTURE TYPE APPROACH STRUCTURE TYPE	MAIN TYPE NO. SPANS APPROACH TYPE
WIDTH OF BRIDGE OUT TO OU WIDTH OF BRIDGE ALONG SKEN NUMBER OF LANES/TRACKS ON	FT. TOTAL LENGTH 300' FT. T 32'5" FT. (RT. } TO 6 OF BRIDGE) W FT.(IF UNABLE TO MEASURE AT RT. } TO 6 OF BRIDGE) BRIDGE 2
BRIDGE CONDITION G	F C
DOES POTENTIAL EXIST FOR	ELEMENTS FROM BRIDGE FALLING ON ROALWAY BENEATH YES [] NO [X]
DOES POTENTIAL EXIST BECA	NUSE OF DETERIORATED CONDITION FOR FAILURE OF MAJOR MEMBERS YES [] NO [X]
COMMENT ON ANY CONDITIONS	OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH

MOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) OF THESE FORMS, ONE FOR EACH ROADWAY.

MINIMUM PICTURES REQUIRED

- 1. ELEVATION VIEW OF BRIDGE ON BOTH SIDES SHOWING UNDERPASS
- 2. VIEW SHOWING BOTH APPROACHES TO BRIDGE
- 3. VIEW SHOWING SAFETY, FEATURES
- 4. VIEW SHOWING ANY PROBLEMS

FORM BIR 3.0A 12-14-84 CURRENT FIELD REPORT NO. 9 DATE 7-24-91
PREVIOUS FIELD REPORT NO. 8 DATE 7-12-89

DT -1443 STATE FORM #

INSPECTION REPORT FOR UNDERPASS ROUTE

UNDERPASS LOCATION NO.	<u> 75 </u>	<i>I2</i> 4	-25.74	,	OVER	ŒAD	BRIDGE	NO.	75	- 10-	14 -4.48
EPPS MILL RD. NFA 1044 OVER 7 TYPE OF SERVI							E NAME		co.	RTE.	L.M.
COUNTY RUTHERFORD		_									
YEAR CONSTRUCTED 1946 ESTIMATED [] ACTUAL	r [X]	YEAR !	WIDENED			YE	AR REHA	BIĹ	ITATE	D	
GEOMETRIC FEATURES UNDE	R BRID	<u>GE</u>									
DIVIDED HIGHWAY LEF TYPE OF WEARING SURFACE WIDTH OF APPROACH TRAVE WIDTH OF MEDIAN IF DIVI APPROACH SHOULDER WIDTH *HORIZONTAL CLEARANCE U *DISTANCE BEIWEEN PIER *WIDTH OF SIDEWALK UNDE *MINIMUM VERTICAL CLEAR * SHOW ON SKETCH TRAFFIC SAFETY FEATURES	CC LED ROP DED HIC /O' NDER BI PROTECT R BRIDX ANCE	ONCRETADWAY SHWAY FT.(RIDGE FION G GE /	E[]	ASPHALM (DOES FT.(I 4" I ND SUBS	r []X S NOT LT.) IN. STRUC	INCL	GRAVEL UDE SHC A//a FI			<i> ∫A</i> _E	T.(LT.)
APPROACH GUARDRAIL	G I	F F	o C]	_ []	NC	NE EX	IST	[>]
APPROACH GUARDRAIL TERMINAL APPROACH GUARDRAIL	G I	F F	С	[]]	ABL]	NC	NE EX	IST	[×]
APPROACH GUARDRAIL TRANSITIONS	G I	F P	e c	PTAB [] .	CEP1	3 .	NC	NE EX	IST	[×]
PIER PROTECTION RAILING OR PARAPET	G I	F F	· c · c · · · · · · · · · · · · · · · ·	ACCE]	UNAC]]]	NC	NE EX	IST	[X]
SIGNING FOR UNDERPASS R											
PADDLEBOARD BRIDGE NUMBER	YES [[X] ON		ED [
VERTICAL CLEARANCE (< 14') NARROW PASSAGE ONE LANE PASSAGE CURVE SPEED LIMIT	YES [YES [YES [YES []	[X] ON [X] ON [X] ON [X] ON	NEED NEED NEED	ED [ED []					

12-14-04	
DT-1443	
STATE FORM	
	•
OTHER SIGNS	CR PLAQUES
•	
COMMENTS RE	GARDING ANY PROBLEM WITH SIGNING
	•
DOTOGRA INTO	I DEC
BRIDGE FEAT	
BRIDGE SKEW	80° RT.
STRUCTURE T	MAIN SPAN MAIN SPAN MAIN TYPE NO. SPANS APPROACH SPAN APPROACH TYPE AN LENGTH 150' FT. TOTAL LENGTH 300' FT.
STRUCTURE T	TYPE NO. SPANS
	APPROACH SPAN APPROACH TYPE
MAXIMUM SPA	RIDGE OUT TO OUT 32'5" FT. (RT.) TO b OF BRIDGE)
WIDTH OF BR	RIDGE ALONG SKEW FT.(IF UNABLE TO MEASURE AT RT. } TO L OF BRIDGE)
NUMBER OF I	ANES/TRACKS ON BRIDGE 2
BRIDGE COND	<u>DITION</u> G 🖲 P C
DOME DOMEST	PIAL EXIST FOR ELEMENTS FROM BRIDGE FALLING ON ROADWAY BENEATH YES []
MES POIENT	[X] ON
DOES POTENT	PIAL EXIST BECAUSE OF DETERIORATED CONDITION FOR FAILURE OF MAJOR MEMBERS
	YES[] NO[X]
·	
COMMENT ON	ANY CONDITIONS OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH
	•
*	·

NOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) OF THESE FORMS, ONE FOR EACH ROADWAY.

MINIMUM PICTURES REQUIRED

FORM BIR 3.0A (CONTINUED)

- 1. ELEVATION VIEW OF BRIDGE ON BOTH SIDES SHOWING UNDERPASS
- 2. VIEW SHOWING BOTH APPROACHES TO BRIDGE
- 3. VIEW SHOWING SAFETY, FEATURES
- 4. VIEW SHOWING ANY PROBLEMS

SUMMARY 75-1044-0.48 5-20-98

Bucanan Rd/I24 2 Span/Cont. W.P.G.

This bridge was inspected and found to be in **good** condition. The approach guardrail and terminals are substandard with areas of moderate to heavy collision damage. The bridge rail are good and approved. The asphalt wearing surface is good. The strip seal joints are in fair condition with moderate debris. All steel has been repainted and is in good condition. The diaphragm at the abutments do show some light loss of section on the flanges, but have new paint. The bent cap and columns are good. There are no underpass safety features.

Ray Furlough

BR. # <u>75- I-24-25.74</u>

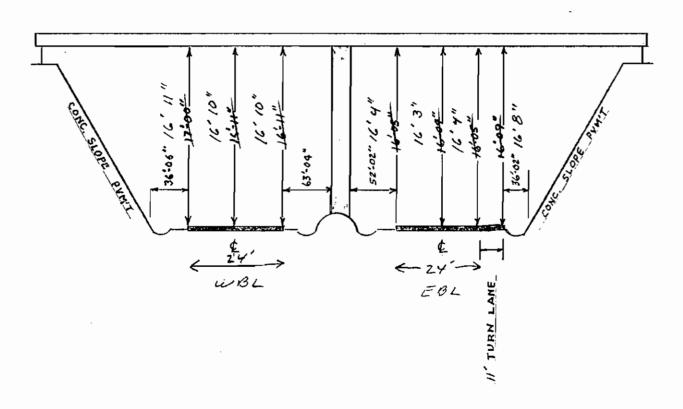
DATE: 7-24-91

INSPECTOR:

VERTICAL & LATERAL CLEARANCE

1044, EPPS MILL ROAD OVER I-24

7-3-96 5.20.98 Jw 7.21.00 fu



LOOKING EAST, MIM. UNDER BEAM "A"

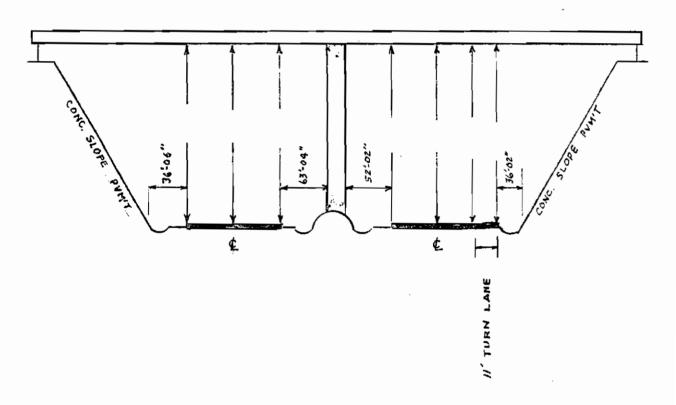
BR. # 75-I-24-25.74

DATE:

INSPECTOR:

VERTICAL & LATERAL CLEARANCE

1044, EPPS MILL ROAD OVER I-24

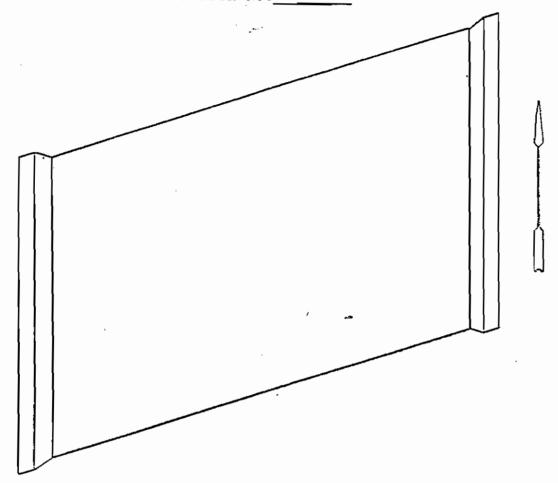


LOOKING EAST, MIM. UNDER BEAM "A"

BRIDGE NO: 75 - 1-24 - 25.74

DATE: 5 Zo 98
INSPECTOR: TW

$T \cap T$	DECK	NO.	- 1	
TO.	DECK	NO:		

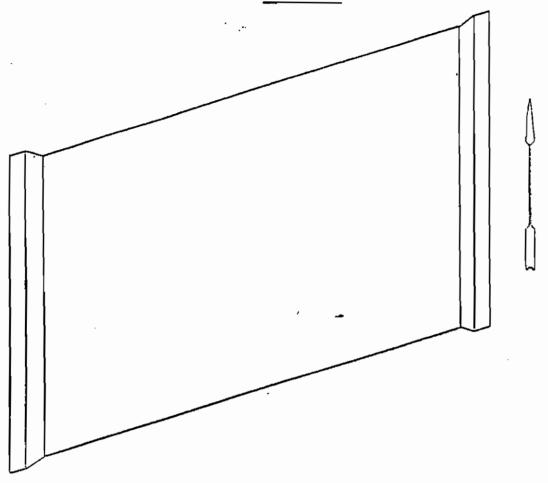


ELEMENT	RATING	COMMENTS
SURFACE	G	AC Overin (a)
CURBS	 G	Moro. Wealnering
BRIDGERAILS	G	Nos Weatheing
DRAINS	NA	
JOINTS	GF	STU, Sear 80% Densis Rec. 11/
OTHER		

BRIDGE NO: 75 - I-24 - 25.74

DATE: 5.20.98
INSPECTOR: Tw

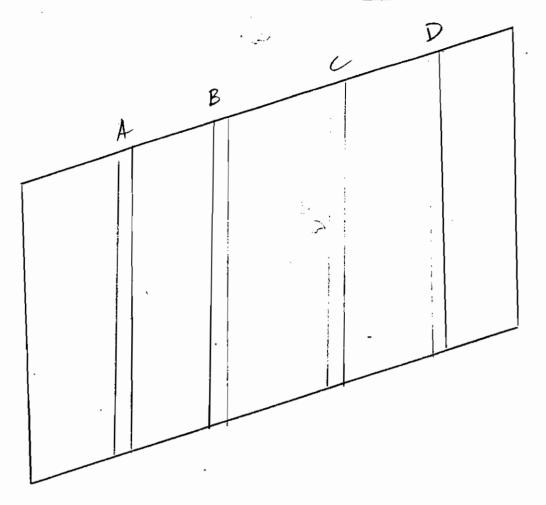
TOP DECK NO: 2



ELEMENT	RATING	COMMENTS
SURFACE	XT G	AC Overing (G)
CURBS	G	Moo. Woodherin
BRIDGERAILS	9	Mod. Weathering
		<u> </u>
DRAINS	MA	
		<u> </u>
JOINTS_	& F	STRIP Seai 160 70 DeBis
		BLO. Up
OTHER		<u></u>

BRIDGE NO: 75-124-25.74 75-10-7-1-48 DATE: 5-70-98
INSPECTOR: 14

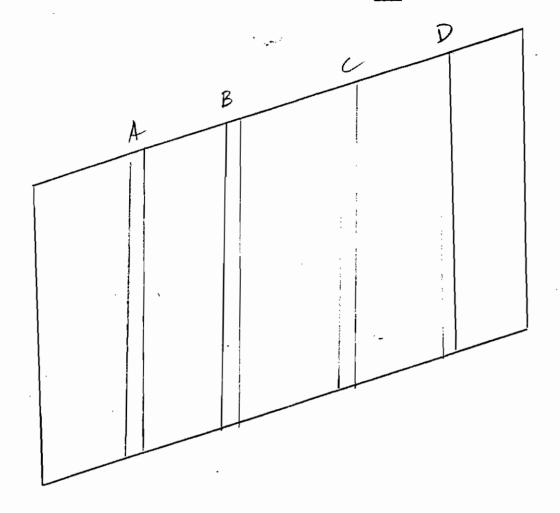
BOTTOM DECK NO: 1



ELEMENT	RATING		COMMENTS		
DECK	6	17 5m B.	12 mm 20		
BEAMS	<u>G</u>				
DIAPHRAGMS	12			<u> </u>	
BRACING	1/2			 	
ALIGNMENT	10				_
1					
	<u> </u>	<u>i</u>			

BRIDGE NO: <u>75 - 124 - 25.74</u> 75: 1044 - 0.48 DATE: <u>6-20-98</u>
INSPECTOR: <u>CA</u>

BOTTOM DECK NO: 2



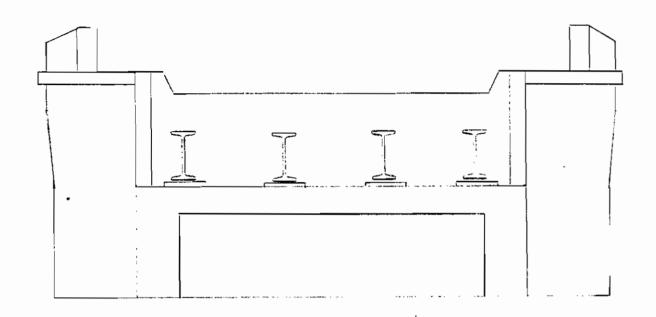
EL EMENT	RATING	COMMENTS
DECK	· ·	
BEAMS		
DIAPHRAGMS		
BRACING		
AL IGNMENT	<u></u>	
	<u> </u>	
	1	

75-1044-0.48 BRIDGE NO. 75-124-35.74

DATE: 5-20-98 DS

ABUTMENT

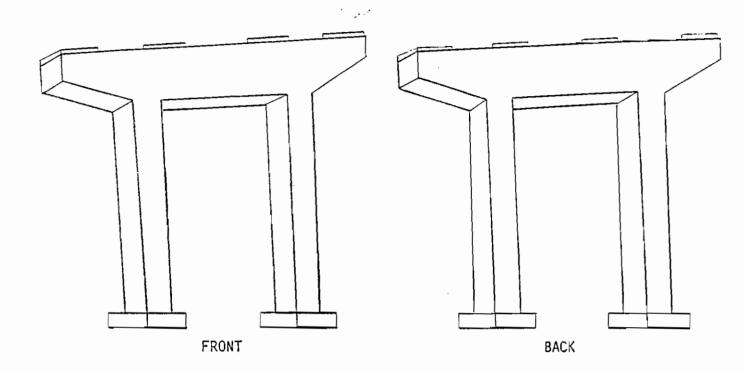
ABUT NO. /



WINGS	6	
WALL	G	
CAP	G	
FOOTING	NV	
BEARINGS		

BRIDGE NO: 75-1044-0.48
BENT NO: 1 -

DATE: 5-20-98
INSPECTOR: 57.

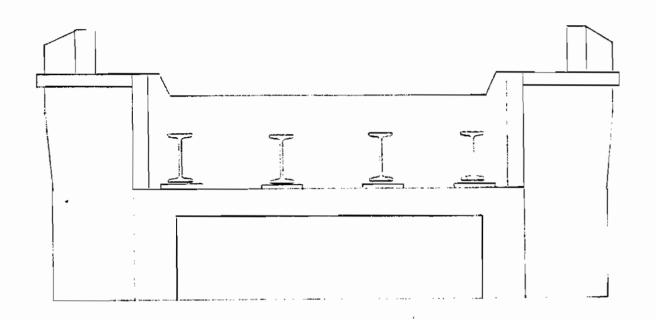


ELEMENT	RATING	COMMENTS
CAP	G	
COLUMNS	G	
FOOTINGS	NV	
BEARINGS	G	
PLUMB	G	
SCOUR	NIA	

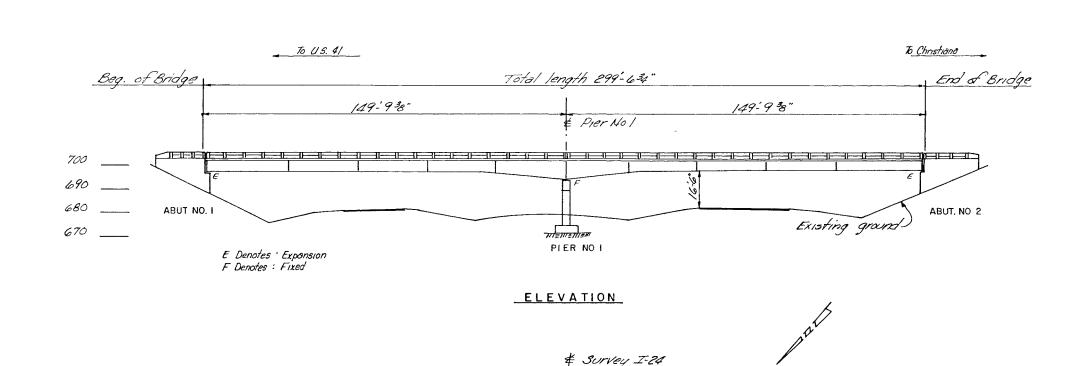
75-1044-0.48 BRIDGE NO.75 124 25.74

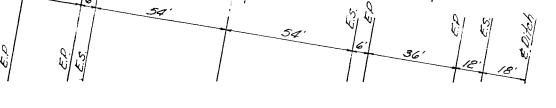
DATE: 5-20-98 DJ.

ABUTMENT
ABUT NO. 2



WINGS	G	
WALL	G	
CAP	G	
FOOTING	NV	
BEHLINGS	G	





F Pier No.1

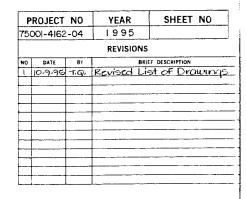
PLAN

GENERAL SCOPE OF WORK

- 1 REMOVE EXISTING 4-1/2"± ASPHALT SURFACE FROM ENTIRE LENGTH AND WIDTH OF BRIDGE, AND FOR AN ADDITIONAL 25' TRANSITIONAL LENGTH BEYOND EACH END SEE DETAIL, DWG NO 3
- 2 REPAIR CONCRETE SLAB IN AREAS OF PARTIAL DEPTH DECK REPAIR WITHIN LIMITS DESIGNATED BY THE ENGINEER, SEE DETAIL SHT NO BR-17-38
- 3 REPAIR BACKWALLS AND WINGWALLS ON BOTH ABUTMENTS SEE DETAILS, DWG NOS BR-I7-39 & BR-I7-40
- 4 INSTALL TYPE "A" STRIP SEAL EXPANSION JOINTS AT BOTH ABUTMENTS SEE STD DWG NOS BR-2-115, BR-2-116, BR-2-117 AND DWG NO BR-17-38
- RESET BEARINGS AT BOTH ABUTMENTS, SEE DETAIL, DWG NO BR 17 37.
- 6 PLACE RIP-RAP ALONG WINGWALLS AT ALL FOUR CORNERS OF ABUTMENTS
- 7 REMOVE AND REPLACE GUARDRAIL AT BRIDGE ENDS
- 8 RE-PAVE BRIDGE AND APPROACHES

79°58

REPAIR CRACKS IN PIER WITH EPOXY INJECTION



▲ LIST OF BRIDGE DRAWINGS

DWG NO	REV DATE	DESCRIPTION
BR-17-35 BR-17-36 BR-17-37 BR-17-38 BR-17-39 BR-17-40 BR-17-41	10-9-95 10-9-95	LAYOUT OF BRIDGE GENERAL NOTES AND ESTIMATED BRIDGE QUANTITIES SUPERSTRUCTURE SUPERSTRUCTURE DETAILS CONCRETE DETAILS - ABUTMENTS 1 & 2 REINFORCING DETAILS - ABUTMENTS 1 & 2 BILL OF STEEL

LIST OF REFERENCE DRAWINGS

 		_								-
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DWG NO	DESCRIPTION
K-70-89	LAYOUT OF BRIDGE
K-70-90 K-7 0-91	SUPERSTRUCTURE STRUCTURAL STEEL DETAIL
K-70-92 K-70-93	ABUTMENTS NO 1 & 2 ABUTMENT DETAILS
K-70-95	BILL OF STEEL

End of Bridge

Prop Rip-Rap (10'x3'x1'deep-Typ)
Place on oll 4 slopes.

25

DWG NO. REV. DATE DESCRIPTION

BR-2-115	7-29-92	GENERAL NOTES AND DETAILS FOR EXPANSION JOINT
		REPLACEMENT CONSTRUCTION TYPES "A" THRU "J"
BR-2-116	7-29-92	GENERAL NOTES AND DETAILS FOR EXPANSION JOINT
		REPLACEMENT CONSTRUCTION TYPES "A" THRU "J"
BR-2-117	7-29-92	STRIP SEAL EXPANSION JOINTS - REPLACEMENT
		CONSTRUCTION DETAILS TYPES "A" AND "B"
STD-12-1	11-12-93	GUARDRAIL ATTACHMENT AND TRANSITION DETAILS - 1987

* DENOTES DRAWING TO BE PRINTED WITH PLANS

	LAST	LIST OF SPECIAL PROVISIONS
NO	REV DATE	REGARDING
100	xx	REVISIONS AND ADDITIONS TO STANDARD SPECIFICATIONS
105A	XX	APPROVAL OF SHOP DRAWINGS
209	XX	EROSION AND SILTATION CONTROL
604	XX	CONCRETE STRUCTURES
6 04S	XX	STRIP SEAL EXPANSION JOINTS
604CX	XX	CONTRACTOR MIX DESIGN AND TESTING STRUCTURAL CONCRETE
709	XX	MACHINED RIP-RAP
9 07 A	XX	EPOXY COATED REINFORCING STEEL

XX DENOTES CURRENT REVISION DATE AS PER CONTRACT DOCUMENTS

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

LAYOUT OF BRIDGE



BRIDGE NO - 75-1044-0.48

EPPS MILL ROAD

OVER 1-24

RUTHERFORD COUNTY

1995

DESIGNED BY C. Rogers DATE

DRAWN BY C. Rogers DATE

SUPERVISED BY DATE

Beg. of Bridge

Approx limits of excavation

to be backfilled with item
no. 303-01 (Typ both obuts)

& Bridge & Epps Mill Rd.

BR-17-35

		ESTIMATED BRIDGE QUANTITIES		
	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
0	602-10 01	STRUCTURAL STEEL REPAIRS	1	L.S.
®	604 -03.01	CLASS "A" CONCRETE (BRIDGES)	60	C Y.
@	604-10 14	REMOVE EXISTING WEARING SURFACE		L.S.
	604-10 18	REINFORCING STEEL (REPAIRS)	4,845	LBS
(5)	604-10 32	EXPANSION JOINT REPAIRS (TYPE "A")	64	L.F.
	604-1050	BRIDGE DECK REPAIR (PARTIAL DEPTH OF SLAB)	75	SY
(3)	604-10 62	EPOXY INJECTION REPAIR (COMPLETE AND IN PLACE)	25	L.F
)(3))(4)	604-10 90	MISCELLANEOUS BRIDGE ITEMS	1	L.S.
	617-01	BRIDGE DECK SEALANT	933	S.Y
9	709-05 07	MACHINED RIP-RAP (CLASS A-2)	8	TONS
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FOOTNOTES

- (1) INCLUDES RE-SETTING BEARINGS, SEE DETAILS, DWG NO
- (2) INCLUDES APPROXIMATELY 934 SQ YDS SURFACE REMOVED, APPROX 4-1/2" THICK, WITHIN LIMITS OF BRIDGE ONLY
- (3) INCLUDES ALL LABOR AND MATERIALS TO EPOXY INJECT CRACKS AT
- 4 INCLUDES TEMPORARY SHEET PILING AT ABUTMENTS
- (5) INCLUDES ALL LABOR AND MATERIALS TO INSTALL NEW STRIP SEAL
- 6 INCLUDES ANY INCIDENTAL EXCAVATION NECESSARY TO REPAIR ABUTMENTS
- (7) ITEM SHALL BE BID AS A CONTINGENCY AND MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER
- (8) INCLUDES ALL CONCRETE FOR REPAIRS TO ABUTMENTS 1 & 2, INCLUDING BACKWALLS
- (9) TO BE PLACED AT WINGWALLS, ALL FOUR CORNERS

GENERAL NOTES

SPECIFICATIONS STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (MARCH 1981 EDITION)

DESIGN SPECIFICATIONS AASHTO 1992 EDITION WITH ADDENDA

STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GRADE 36 (ASTM A709 GRADE 36) UNLESS OTHERWISE NOTED

REINFORCING STEEL TO BE ASTM A615 GRADE 60 STANDARD CRSI HOOK DETAILS APPLY UNLESS OTHERWISE NOTED ON BILL OF STEEL SPACING DIMENSIONS ARE CENTER TO CENTER AND C . √ER DIMENSIONS ARE CLEAR DISTANCE UNLESS OTHERWISE NOTED PLACING TOLERANCES ARE ± 1/2" FOR SPACING AND - 1/8" OR + 3/8" FOR COVER (THE SUFFIX E FOR BARS SO MARKED, DENOTES EPOXY COATED REINFORCEMENT) SEE SPECIAL PROVISION NO 907A

MECHANICAL BAR SPLICERS MUST BE APPROVED BY THE DIVISION OF MATERIALS AND TESTS: A SPLICED SAMPLE OF EACH SIZE BAR APPROXIMATELY TWO FEET (2) IN LENGTH SHALL BE SUBMITTED TO THE DIVISION OF MATERIALS AND TESTS THE SAMPLES MUST BE MADE IN THE PRESENCE OF THE ENGINEER BY THE SAME PERSONNEL AND EQUIPMENT THAT WILL BE MAKING THE PRODUCTION SPLICES

THE BAR SPLICER SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR MECHANICAL CONNECTION WHEN EPOXY COATING IS REQUIRED, THE EXPOSED THREADS SHALL BE REPAIRED A-TER SPLICING ACCORDING TO SPECIAL PROVISION 907A THE COST OF FURNISHING THE BAR SPLICERS, (AND EPOXY COATING WHEN REQUIRED) INCLUDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO 604-10 18, LBS OR 604-10.32, LF

SHOP DRAWINGS SHALL BE SUBMITTED ACCORDING TO SPECIAL PROVISION NO 105A, EXCEPT SHOP DRAWINGS SHALL BE SUBMITTED TO THE HEADQUARTERS BRIDGE INSPECTION AND REPAIR OFFICE IN LIEU OF THE DIVISION OF STRUCTURE.

 $\underline{\text{CONCRETE}}$ TO BE CLASS "A" CONCRETE IN ACCORDANCE WITH SPECIAL PROVISION NO 604CX

CONCRETE CURING ALL CONCRETE IN REPAIR AREAS SHALL BE CURED ACCORDING TO SPECIAL PROVISION NO 604

NON-PAY ITEMS ONLY ITEMS SHOWN ON THE PROPOSAL AS PAY ITEMS WILL BE PAID FOR COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS FOR THE ENTIRE CONTRACT SHALL BE INCLUDED IN THE PRICE FOR

FOR ADDITIONAL GENERAL NOTES APPLICABLE TO STRIP SEAL EXPANSION JOINTS, SEE STANDARD DRAWING NO BR-2-115 ALSO SEE SPECIAL PROVISION NO 604S REGARDING STRIP SEAL JOINTS

CLEANING AND PAINTING BEARINGS SHOULD BE BLASTCLEANED AND PAINTED PAINT SYSTEM SHALL BE ONE (1) COAT EPOXY PRIMER AT FOUR MILS DRY FILM THICKNESS FOR ACCEPTABLE BRANDS OF EPOXY PRIMERS SEE TENNESSEE DEPARTMENT OF TRANSPORTATION, MATERIALS AND TEST QUALIFIED PRODUCTS

GROUTED BARS IN DRILLED HOLES HORIZONTALLY DRILLED HOLES SHALL BE DRILLED 1/2" IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH NON-SHRINK GROUT AND BAR DRIVEN TO ITS SEAT VERTICALLY DRILLED HOLES SHALL BE DRILLED 1/4" IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH EPOXY GROUT AND BAR DRIVEN TO ITS SEAT ALL GROUTING MATERIAL SHALL BE APPROVED BY T D O T MATERIALS AND TESTS

P	ROJECT	NO.	YEAR	SHEET NO.
75	001-41	62-04	1995	2
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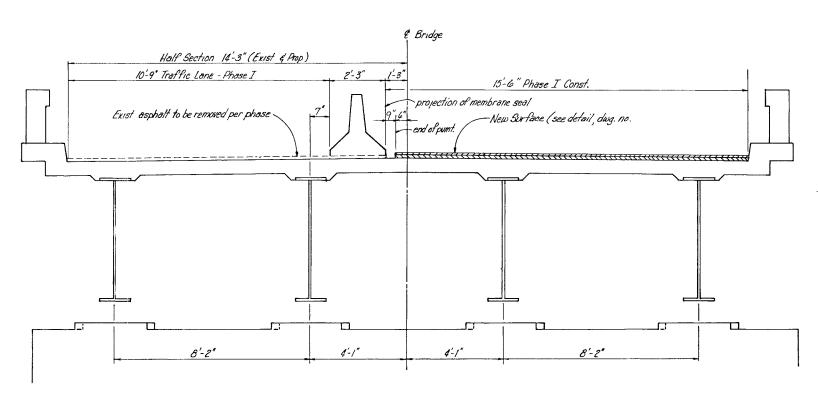
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND ESTIMATED QUANTITIES

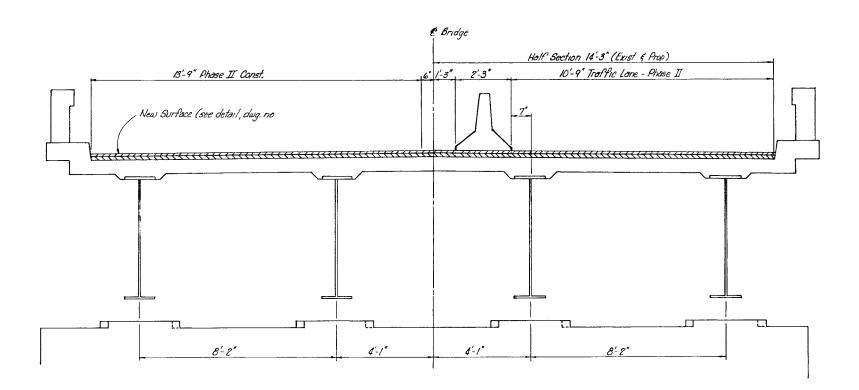
BRIDGE NO - 75 - 1044 - 0.48 EPPS MILL ROAD OVER I-24 RUTHERFORD COUNTY

1995

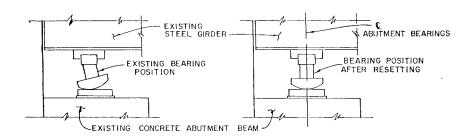




TYPICAL CROSS SECTION - PHASE I CONSTRUCTION



TYPICAL CROSS SECTION - PHASE I CONSTRUCTION



EXISTING EXPANSION BEARING

RESET EXPANSION BEARING

NOTE BEARING DEVICES ARE 10 BE RESET TO A VERTICAL POSITION AT 60 DEGREES FAHRENHEIT AT TEMPERATURES OTHER THAN 60 DEGREES FAHRENHEIT, BEARING SHALL BE SET AS INSTRUCTED BY THE ENGINEER TEMPERATURE SHALL BE THE BEAM TEMPERATURE ALL WORK SHALL MEET WITH THE FULL SATISFACTION OF THE ENGINEER

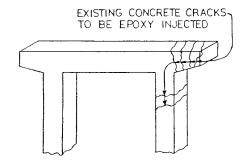
NOTE COST OF RESETTING EXPANSION BEARINGS INCLUDING ALL JACKING, REMOVING THE EXISTING SOLE PLATE AND REWELDING TO THE BOTTOM FLANGE OF THE GIRDER, LABOR, SURFACE PREPARATION AND PAINTING, AND ANY MISCELLANEOUS MATERIALS NEEDED TO COMPLETE THE REPAIRS TO BE PAID FOR UNDER ITEM NO 602-10 01, STRUCTURAL STEEL REPAIRS LS

GENERAL NOTES AND SPECIFICATIONS FOR EPOXY INJECTION OF EXISTING STRUCTURAL CRACKS

Note all cracks smaller than 1/4" shall be injected with an approved epoxy resin adhesive. All cracks 1/4" or larger shall be injected with an approved epoxy resin adhesive of the <u>Gel type</u>

EXTREME CAUTION SHALL BE TAKEN WHEN SELECTING A PRESSURE NECESSARY TO COMPLETE THE EPOXY INJECTION CRACK REFAIR SO AS NOT TO DAMAGE THE STRUCTURE BY COUSING ADDITIONAL CRACKING IF ADDITIONAL DAMAGE COCURS, THE CONTRACTOR SHALL SEAR FULL RESPONSIBILITY. ALL EPOXY INJECTION WORK SHALL MEET WITH THE FULL APPROVAL OF THE ENGINEER

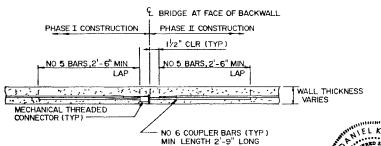
NOTE ALL EPOXY INJECTION CONTRACTORS AND/OR SUBCONTRACTORS SHALL BE APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TEST



NOTE COST OF ALL LABOR AND MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE EPOXY INJECTION REPAIRS TO EXISTING CONCRETE CRACKS SHALL BE INCLUDED UNDER ITEM NO. 604-10 62, EPOXY INJECTION REPAIRS, (COMPLETE AND IN PLACE) L F.

NOTE: THE ENGINEER SHALL DESIGNATE ALL AREAS OF REPAIR

ELEVATION - PIER NO. I



TYPICAL DETAIL AT CONSTRUCTION JOINT

NOTE THE COST OF MECHANICAL THREADED CONNECTORS AND THE COST OF THREADING THE COUPLER BARS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO 604-10.18, REINFORCING STEEL (REPAIRS), LBS



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAYS SUPERSTRUCTURE

PROJECT NO

75001-4162-04

YEAR

REVISIONS

1995

SHEET NO.

BRIEF DESCRIPTION

BRIDGE NO - 75-1044-0.48

EPPS MILL ROAD

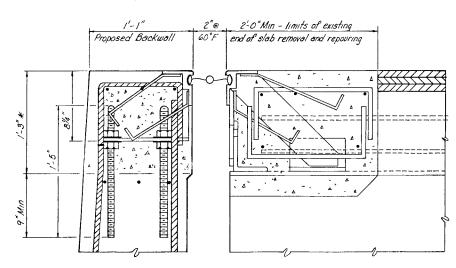
OVER I-24

RUTHERFORD COUNTY

1995

BR-17-37

* Denotes : Concrete within these limits shall be paid for under item no 604-10.32, L.F.



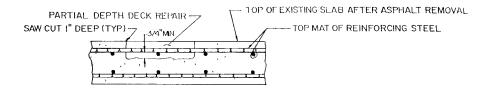
TYPICAL SECTION AT ABUTMENT BACKWALL

TYPICAL SECTION AT END OF BRIDGE SLAB

TYPICAL ABUTMENTS NO. I AND NO. 2

NOTES

- 1 EXPANSION JOINT REPLACEMENT DETAILS SHOWN ON THIS SHEET ARE FOR GENERAL INFORMATION ONLY FOR COMPLETE DETAILS AND NOTES, SEE STD DWGS BR-2-115, BR-2-116 AND BR-2-117, ALSO SEE SPECIAL PROVISION 604S
- EXPANSION JOINT REPLACEMENT SHALL BE CONSTRUCTED IN PHASES AS SHOWN ON DWG NO BR-17-37.THE STEEL PORTIONS OF THE EXPANSION DEVICE SHALL BE FABRICATED IN SECTIONS IN ORDER TO MAINTAIN ONE (1) TRAFFIC LANE AT ALL TIMES THE SECTIONS ARE TO BE CONNECTED WITH A FULL PENETRATION BUTT WELD THE ELASTOMERIC SEAL SHALL BE ONE PIECE FOR FULL LENGTH OF EXPANSION JOINT INCLUDING CURB FACE PROJECTIONS
- 3 EXPANSION JOINT OPENING SHALL BE SET ACCORDING TO TEMPERATURE CHART SHOWN ON APPROVED EXPANSION JOINT SHOP DRAWINGS
- 4 PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE THE VER-TICAL ALIGNMENT OF THE NEW STEEL EXTRUSION AND CONCRETE HEADER SURFACES CONFORM TO THE EXISTING ROADWAY PROFILE
- 5 PROVISIONS SHALL BE MADE DURING CONCRETE REMOVAL TO PROTECT THE EXISTING REINFORCING STEEL FROM DAMAGE. THE EXISTING REINFORCING STEEL SHALL BE COMPLETELY CLEANED, REALIGNED AND INCORPORATED INTO THE NEW CONSTRUCTION
- THE COST OF REMOVING PORTIONS OF THE EXISTING SLAB WITHIN THE LIMITS SHOWN, COMPLETELY CLEANING EXISTING REINFORCING STEEL, CLASS "A" CONCRETE, EPOXY COATED REINFORCING STEEL, FORMING, AND ALL MISCELLANEOUS MATERIAL NECESSARY FOR CONSTRUCTING THE NEW SECTIONS AS SHOWN SHALL BE INCLUDED IN PRICE BID FOR ITEM NO 604-10 32, EXPANSION JOINT REPAIR, (TYPE "A") L F
- 7 NO 5 'A' BARS IN THE EXPANSION JOINT REPAIR AREA SHALL BE SPLICED USING MECHANICAL THREADED CONNECTORS SEE SIMILAR DETAIL AS SHOWN ON DWG NO BR-17-37 COST OF MECHANICAL THREADED CONNECTORS IN THE EXPANSION JOINT AREA SHALL BE PAID FOR UNDER ITEM NO 604-10 32, L F



DETAIL SHOWING PARTIAL DEPTH DECK REPAIR

CONCRETE FOR DECK REPAIR SHALL BE HIGH EARLY STRENGTH CONCRETE, fc = 3500 psi AT 28 DAY STRENGTH TRAFFIC SHALL NOT BE PERMITTED ON ANY OF THE REPAIRED AREAS UNTIL TEST SPECIMENS ATTAIN A COMPRESSIVE STRENGTH OF 3000 psi MINIMUM AND THE CONCRETE HAS BEEN IN PLACE A MINIMUM OF TEN (10) DAYS

REMOVE CONCRETE IN ALL DELAMINATED AREAS TO A DEPTH OF 3/4" BELOW THE TOP BAR OF THE TOP MAT OF REINFORCING STEEL ALL REINFORCING STEEL IN AREAS OF DECK REPAIR SHALL BE BLAST CLEANED AREAS OF CONCRETE REMOVAL SHALL BE DESIGNATED BY PERSONNEL FROM THE HEADQUARTERS, BRIDGE INSPECTION AND REPAIR OFFICE DECK REPAIR WILL BE PAID FOR UNDER ITEM NO 604-10 50, BRIDGE DECK REPAIR (PARTIAL DEPTH OF SLAB) POWER DRIVEN HAND TOOLS USED FOR THE REMOVAL OF UNSOUND CONCRETE IN MAKING PARTIAL DEPTH REPAIRS ARE SUBJECT TO THE FOLLOWING RESTRICTIONS 1) PNEUMATIC HAMMERS HEAVIER THAN NOMINAL 35 POUND CLASS SHALL NOT BE USED 2) CHIPPING HAMMERS OF THE 15 POUND CLASS SHALL BE USED TO REMOVE CONCRETE FROM BENEATH ANY REINFORCING STEEL

NOTE ITEM NO 604-10 50 SHALL BE BID WITH THE CONTINGENCY THAT THIS ITEM MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER

PF	ROJECT	NO	YEAR	SHEET NO.	
75001-4162-04		1995			
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STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAYS

SUPERSTRUCTURE DETAILS

BRIDGE NO 75-1044-048

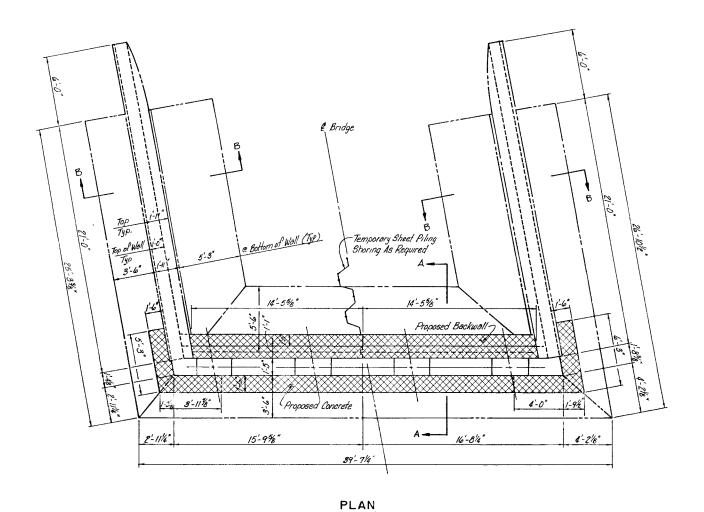
EPPS MILL ROAD

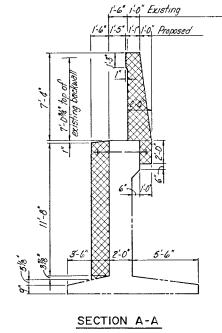
OVER 1-24

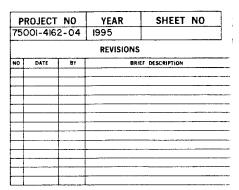
RUTHERFORD COUNTY

1995









- Backwall (Beyond)

<u>Notes</u>
The cost of concrete for abutments shall be included in item no. 604-03. OI, Class "A" Concrete (Bridges)

The cost of reinforcing steel shall be included in item no. 604-10. 18 , Reinforcing Steel (Repairs)

SECTION B-B

ELEVATION

Top of backwall to conform to bridge deck grade

LEGEND Indicates New Concrete



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

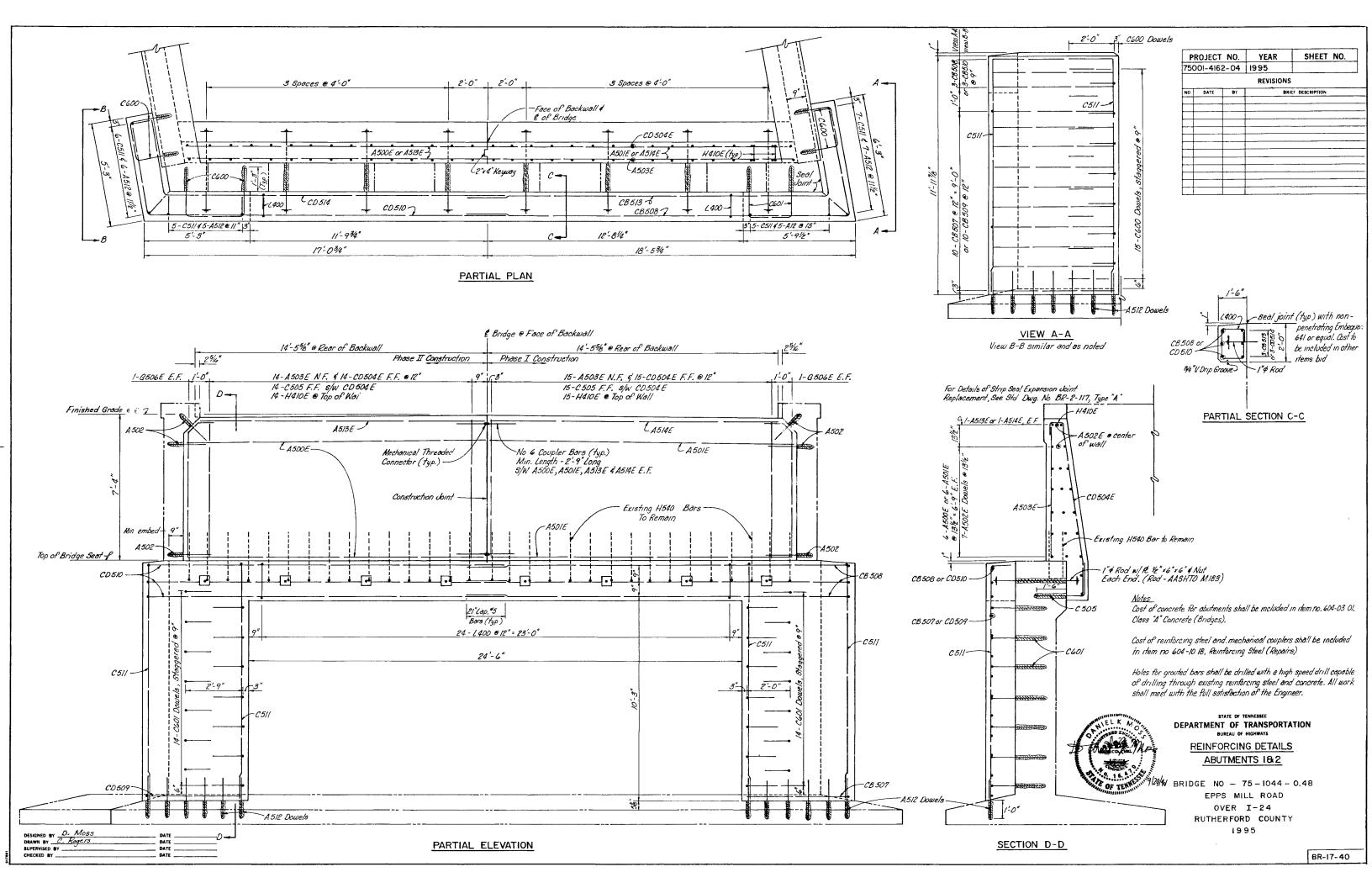
CONCRETE DETAILS ABUTMENTS 18 2

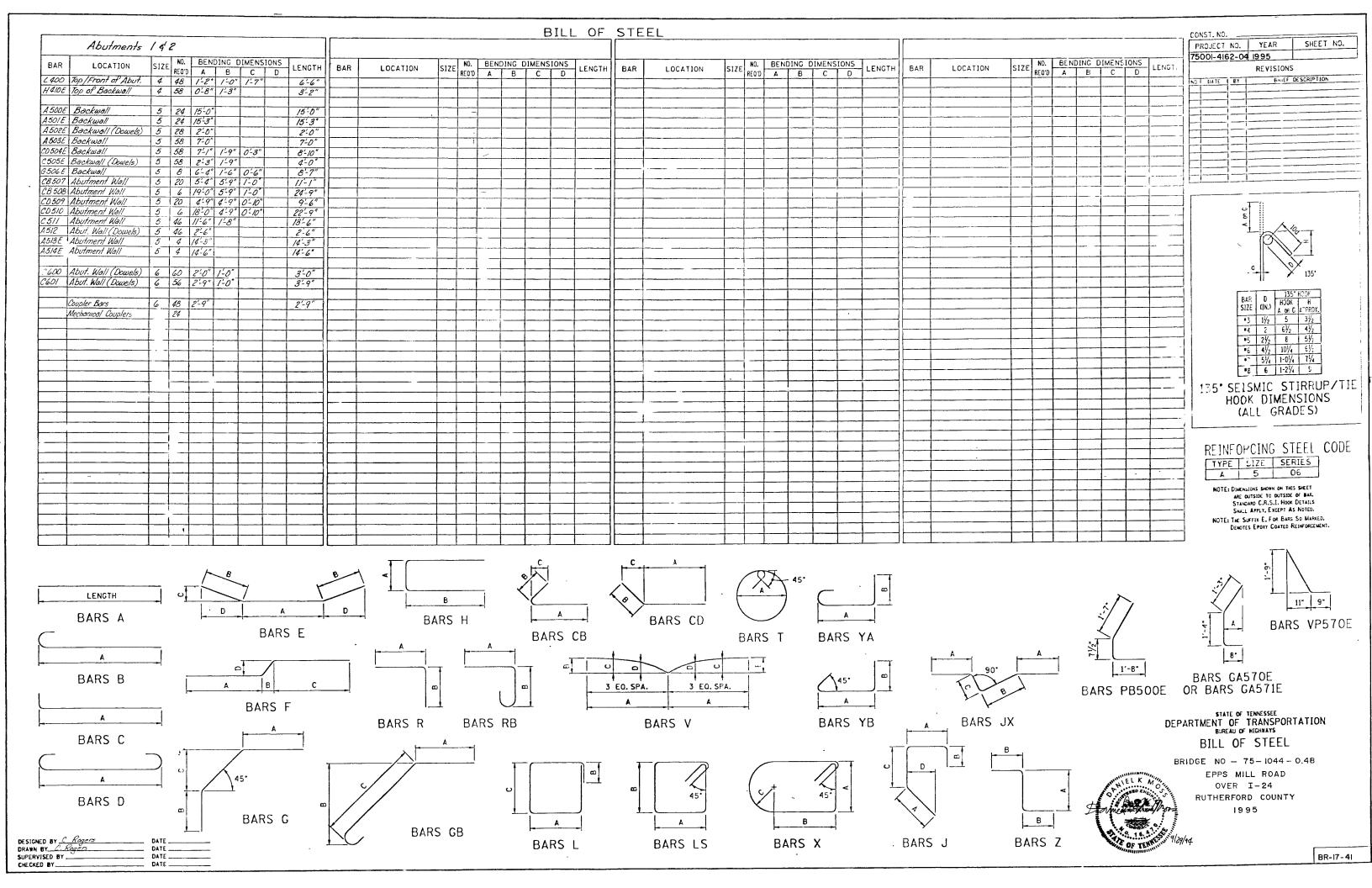
BRIDGE NO - 75-1044-0.48 EPPS MILL ROAD OVER I-24 RUTHERFORD COUNTY

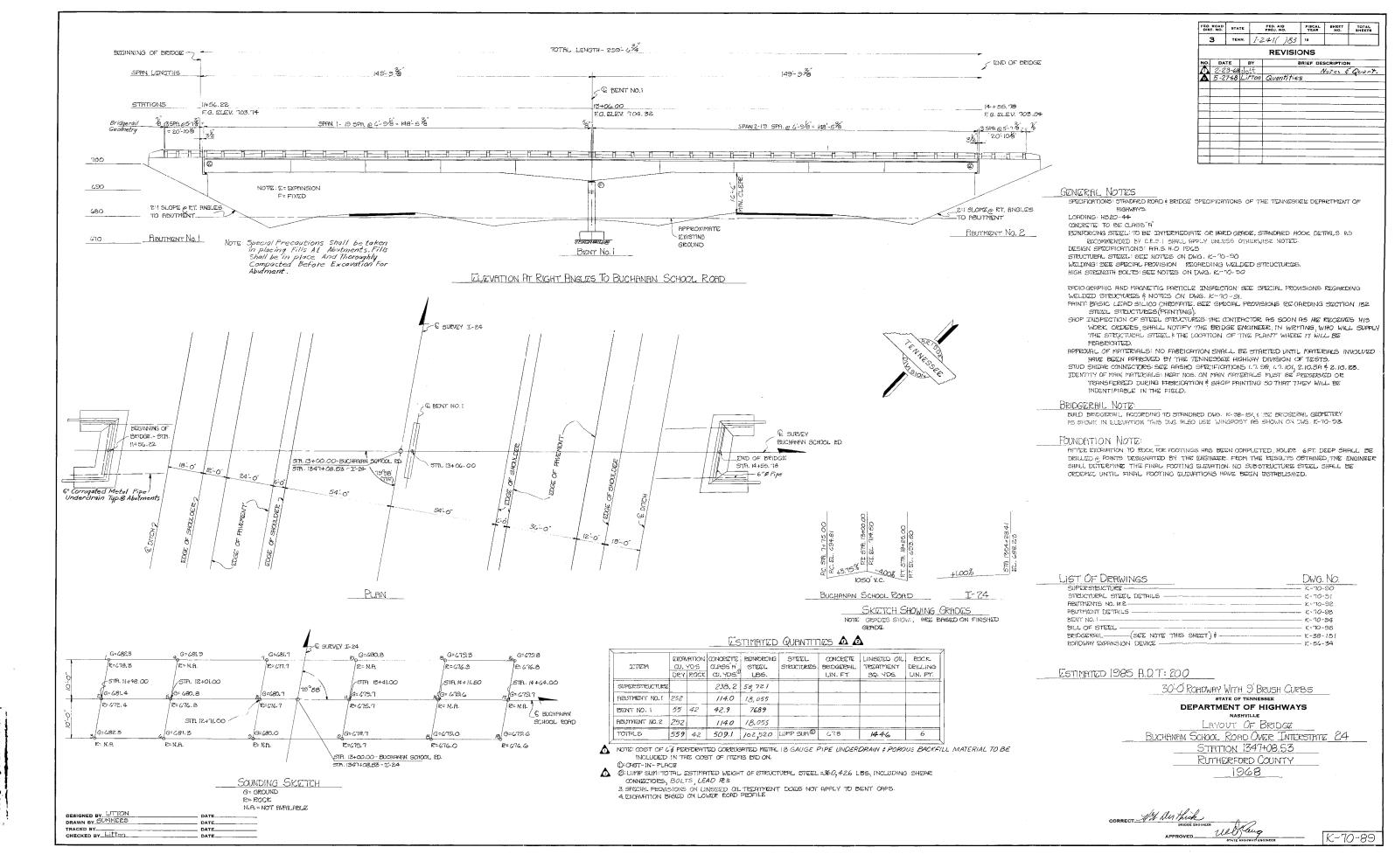
1995

BR-17-39

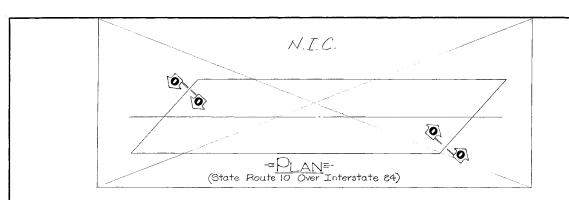
DESIGNED BY D MOSS
DRAWN BY C. Ragers
SUPERVISED BY
CHECKED BY

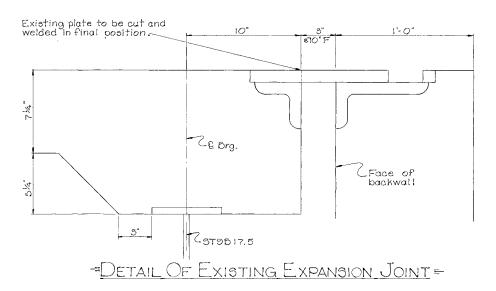


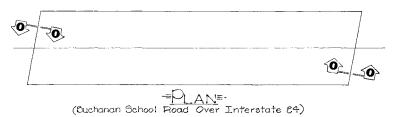




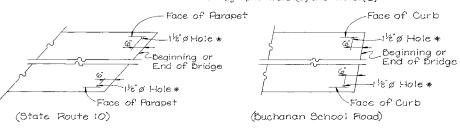
WIGHOFILMED



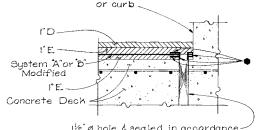




Mastic, as recommended by manufacturer of membrance.
 See Special Provision 435, Paragraphs 4.3.2.(C) and 4.3.2.(D)



= PART - SLAB PLAN = Put these at low points on alab



Face of parapet

1½ ø hole ¢ sealed in accordance with Special Provisions 435, Parapet 4.3.8.(H)

NO. DATE BY BRIEF DESCRIPTION 6-18-76 COMPLETED PRANUNG DECK SEALANT DETAILS

1976 REVISIONS

SHEET NO.

PROJECT NO. YEAR

I-84-1(031)79

GENERAL NOTES

SPECIFICATIONS: Standard Road and Bridge Specifications of the Tennessee Department of Highways. (1968 Edition)

BRIDGE DECK SEALANT: The bridge deck and reinforced approach slab shall be sealed in accordance with Special Provision No. 435 System A or b (Modified) Special Provision No. 435 System A or b (Modified) Special Provision Regarding Bridge Deck Sealant, dated April 1,1976. Deck Sealant shall be paid for under a roadway item. (5,800 S.Y. Required).

LIST OF DRAWINGS

Dwg. No's.

K-70-884

Bridge Expansion Joint & Deck Sealant Details K-70-89A g Layout of Bridge - Buchanan School Rd. over I-84 S Superstructure - Buchanan School Rd. over I-84 K-70-89 K-70**-**90 Layout of Dridge - State Route 10 over 1-84 Superstructure - State Route 10 over 1-84 K-83-137 K-83-138

-ESTIMATED QUANTITIES -

\		
Item No.	11.10-0360	Jys."A" 604-03.18 Jys."B" 604-03.13
Item	Roadway Expansion Device Lin. Ft.	Bridge Deck Sealant System "A" or B" (Mod.) S.Y.
Buchanan School Rd. over I-84	58	596
State Route 10 over I-24	- 303	888,3

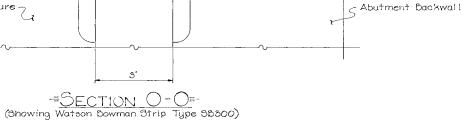
◆ Note: Cost of cutting steel plates, welding in new position, furnishing and installing Watson Bowman's Strip Type SB300, D.S. Brown De Elastoflex MT300, or Old North Onflex 45, furnishing and installing steel shim plates as required to be included ir cost of item 980-01.11.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE EXPANSION JOINT AND DECK SEALANT DETAILS PROJECT NO. 75001-8130-44 RUTHERFORD COUNTY 1976

3. Asphalt Overlay Superstructure Z Stee! shim & as required. — Abutment Backwall

= SECTION O-O=
(Showing D.S. Brown De Elastoflex MT300)

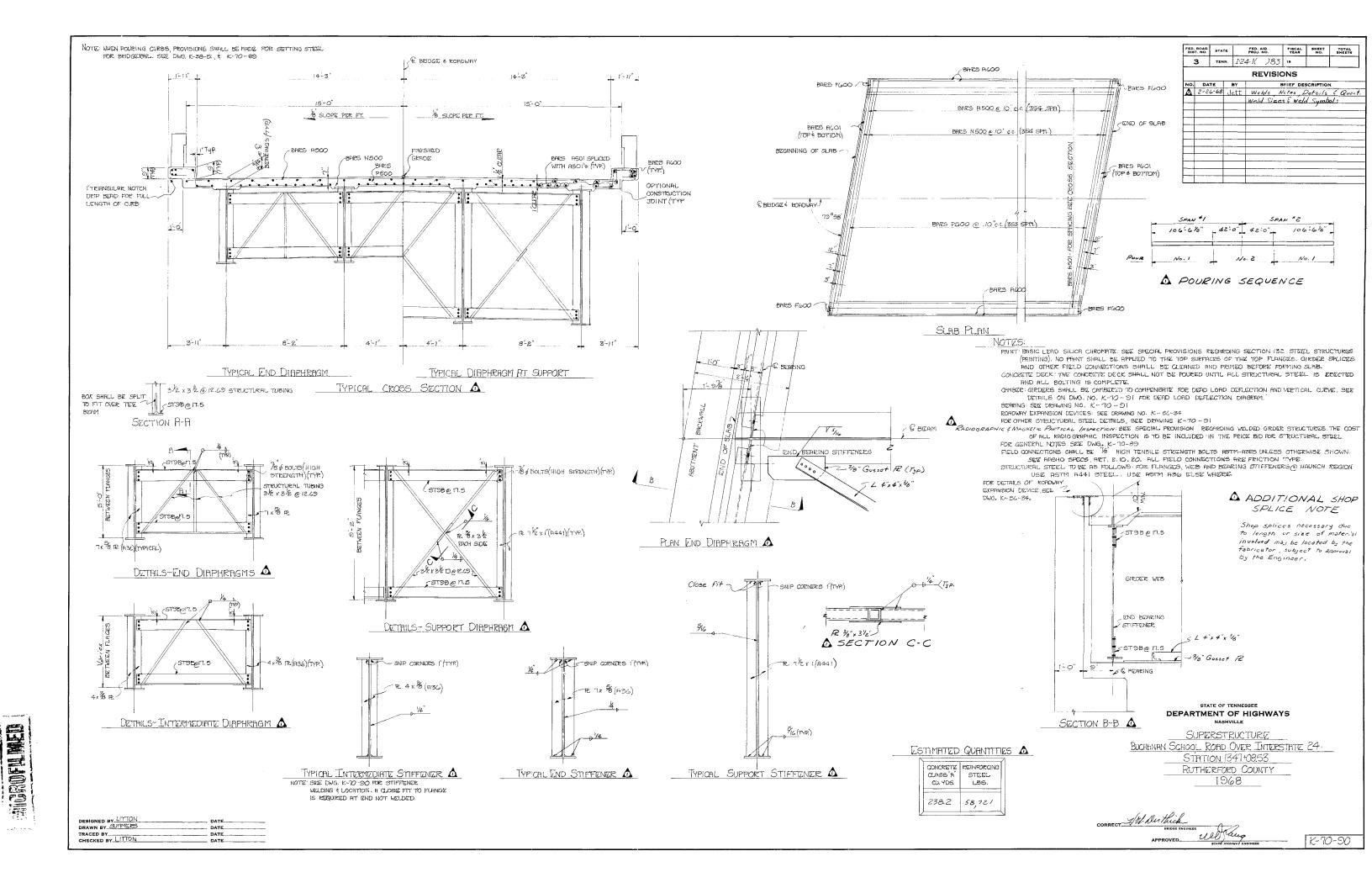


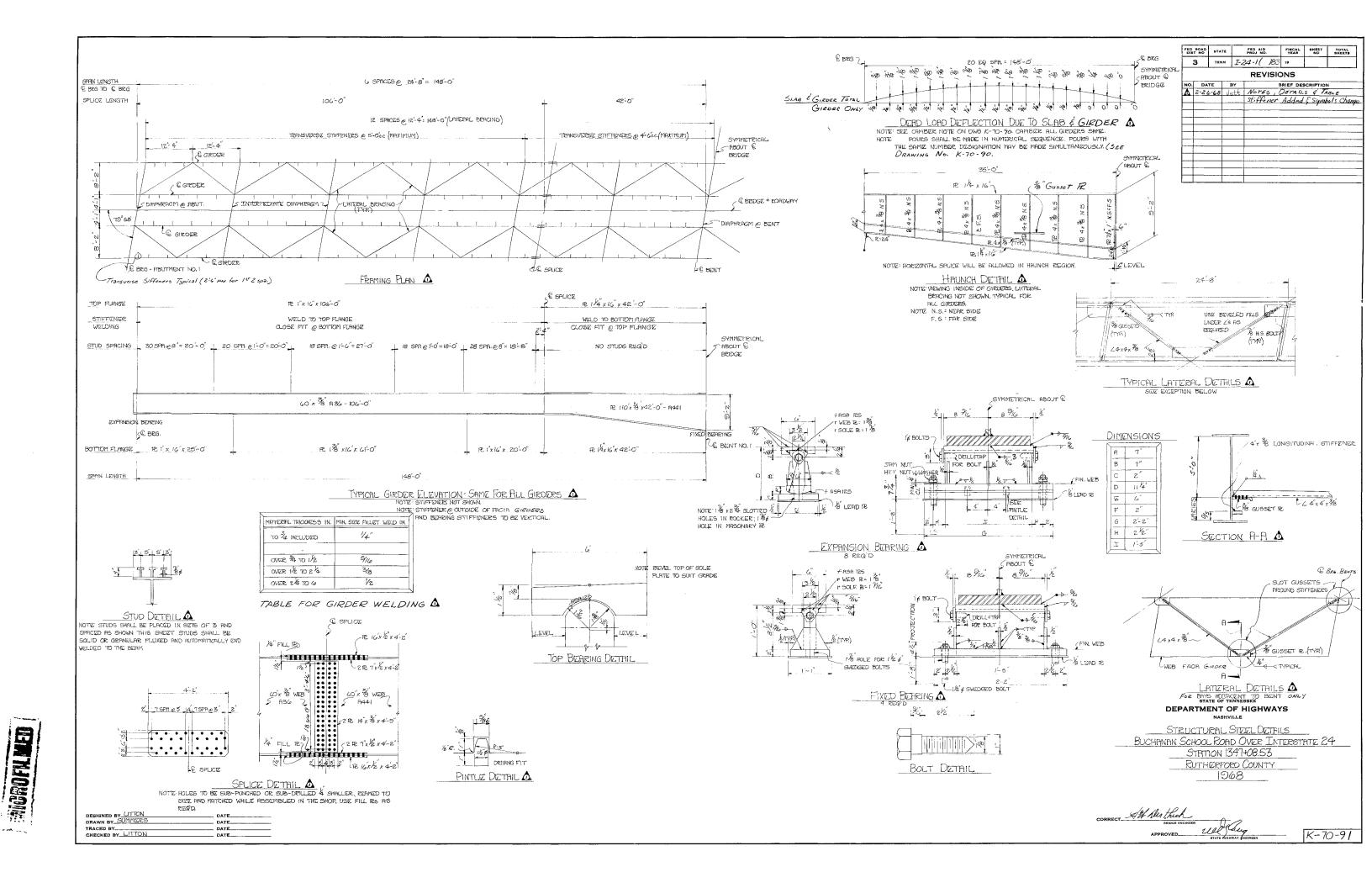
NOTE: Old North Onflex 45 may be substituted for either the Watson bowman 3trip Type 35300 or the D.S. Brown DeElastoflex MT300.

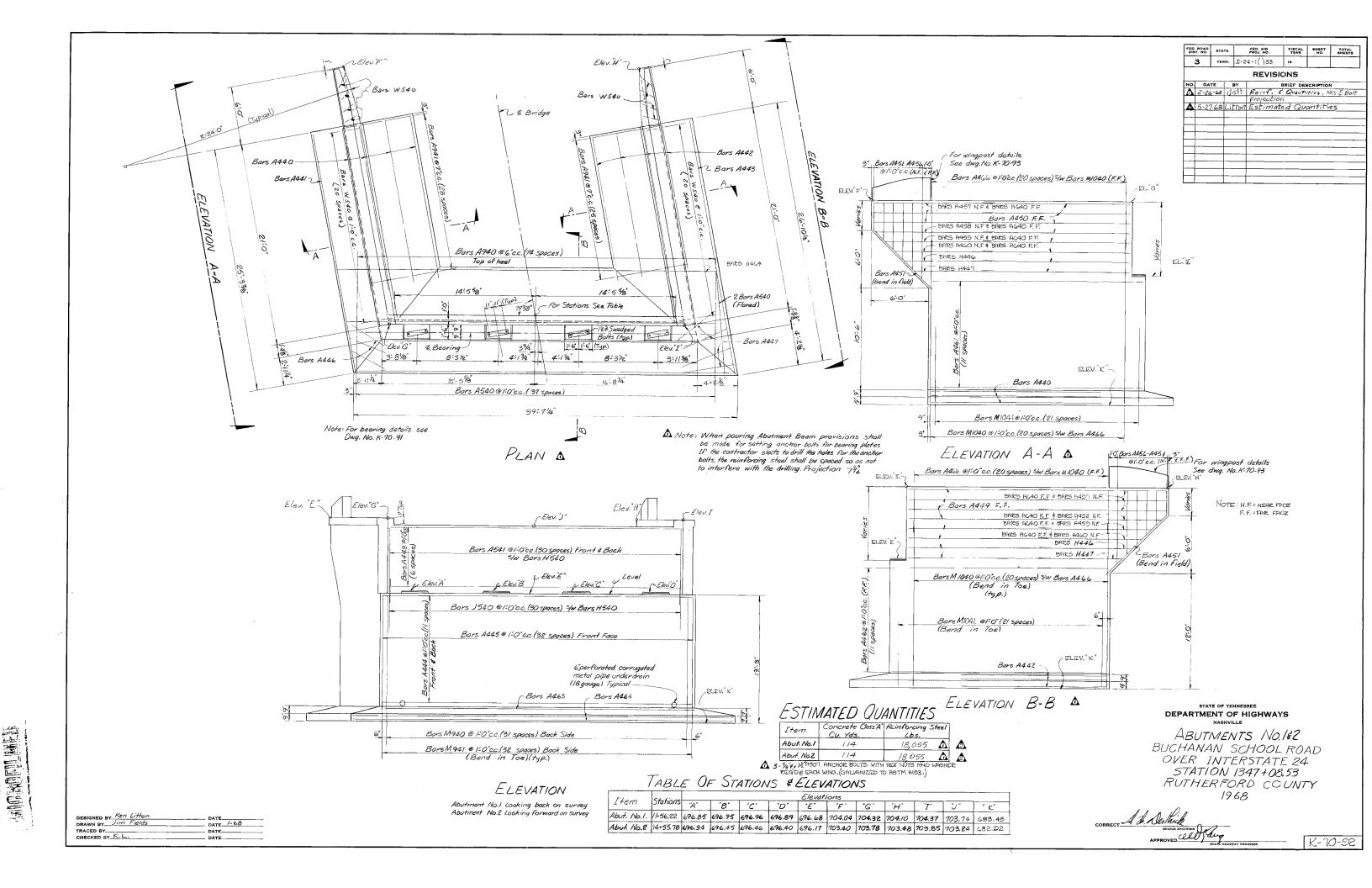
DESIGNED BY DRAWN BY Jimmy "Smokey" Mason DATE June -76

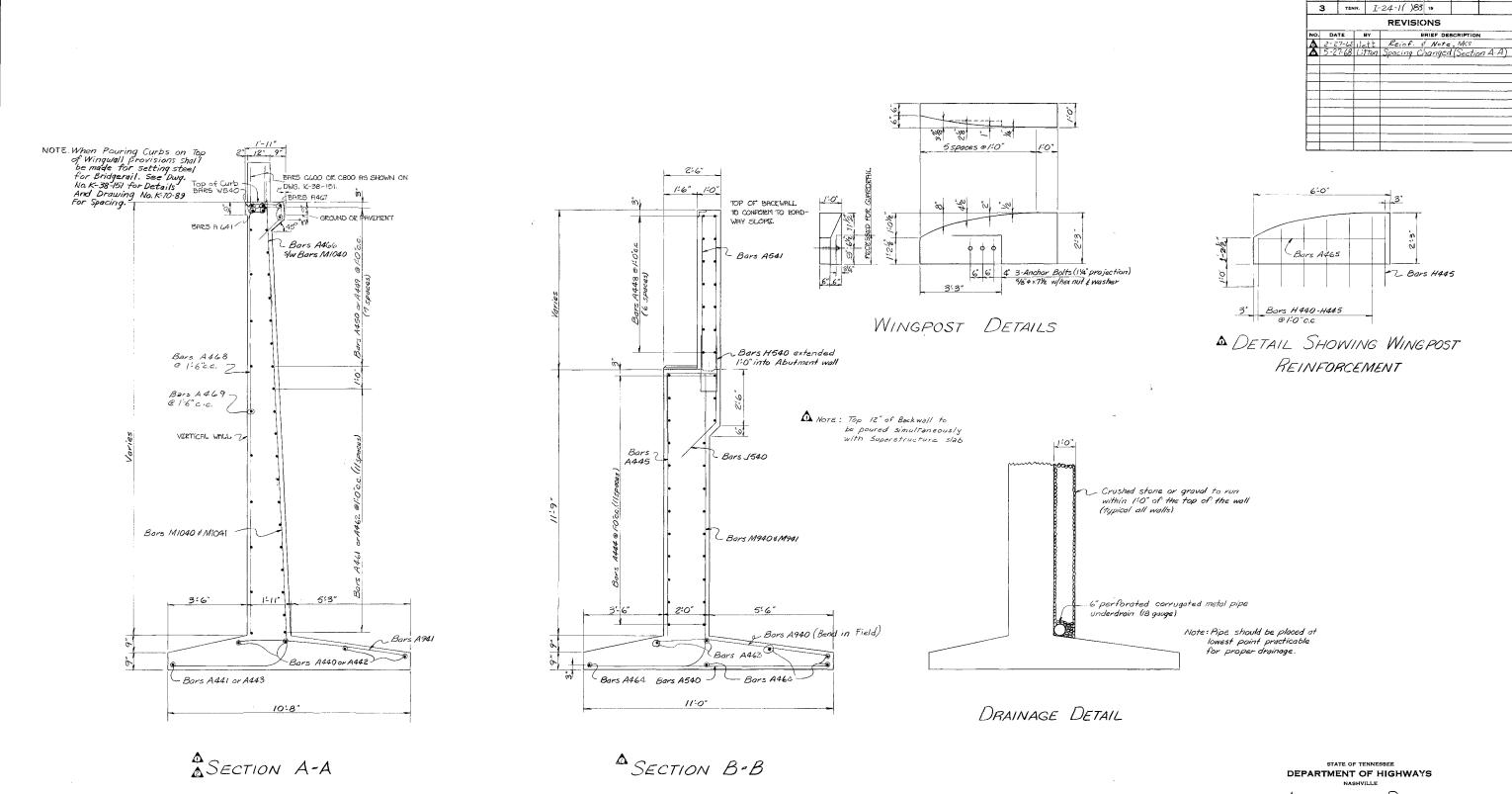
ANGROPH MED

Buperstructure Z









ABUTMENT DETAILS BUCHANAN SCHOOL ROAD OVER INTERSTATE 24 STATION 1347+08.53 RUTHERFORD COUNTY 1968

DESIGNED BY Ken Litton
DRAWN BY Jim Fields
TRACED BY
CHECKED BY K. L.

K-70-93

FED ROAD DIST. NO. STATE PROJ. NO. PISCAL SHEET TOTAL SHEETS

