TENNESSEE DEPARTMENT OF TRANSPORTATION STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

PROJECT NO.: 09035-0220-94 COUNTY: CARROLL PROJECT PIN NUMBER: 124139.00 PROJECT DESCRIPTION: BRIDGE OVER REEDY CRE					ROUTE:CITY:					
DIVISION REQUESTING: PAVEMENT DESIGN MAINTENANCE STRUCTURES S.T.I.D. SURVEY & ROADWAY DESIGN PROG. DEVELOPMENT & ADM. TRAFFIC SIGNAL DESIGN PUBLIC TRANS. & AERO. OTHER YEAR PROJECT PROGRAMMED FOR CONSTRUCTION: PROJECTED LETTING DATE:										
TRAFFI	C ASSI	GNMENT	<u>.</u>							
BASE YEAR			DESIGN YEAR			DESIGN ROADWAY % TRUCKS		DESIGN AVERAGE DAILY LOADS		
AADT 380	YEAR 2022	450	DHV 68	15	YEAR 2042	DIR.DIST. 65-35	DHV 3	AADT 5	FLEX 13	RIGID 18
REQUESTED BY: NAME DIVISION ADDRES			SION S.T.I.D.							
TRAN		TRANSPOR	TONY ARMSTRONG Tony A DATE 2.28.(8 FRANSPORTATION MANAGER I SUITE 1000, JAMES K. POLK BUILDING							
ASSIS			TERS ANT DIRECTOR 000, JAMES K. POLK BUILDING							

COMMENTS:

THIS TRAFFIC IS BASED ON 2017 CYCLE COUNTS. THE DESIGN YEAR TRAFFIC IS BASED ON GROWTH RATE FROM THE ADAM COMPUTER PROGRAM.

TENNESSEE DEPARTMENT OF TRANSPORTATION STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

PROJECT NO.: 09035-0220-94	ROUTE NO.: S.R. 436
COUNTY: CARROLL	CITY:
PROJECT DESCRIPTION: BRIDGE OVER REEDY CREEK @ (L.M.	0.68)

FAP Rural

Pavement Structural Design

Calculation of Equivalent Daily 18 Kip Single Axle Loads

		ADT	Т	Flexible			Rigid	
Тур	oe Vehicle	(No. Counted)	Ī	18-kip Factor	ADI	. [18-kip Factor	ADL
Pass. c	ars and		T				5	
motorc	ycles (1-2)	277		0.001	0		0.001	0
Pick-up	, Panel,	-						
Van	(3)	117		0.005	1		0.004	0
	Buses (4)	0		0.300	0		0.300	0
Sing.	2-axle,		T		===			
	6-tire (5)	5		0.240	1	-	0.310	2
Unit	3-axle or		П					
	more (6-7)	8		1.700	14		2.300	18
	4-axle (8)	4		1.110	4		1.500	6
Comb.	5-axle or							
	more (9-13)	4		1.320	5		2.200	9
Totals			Т					
(2032 AADT)		415			25			35

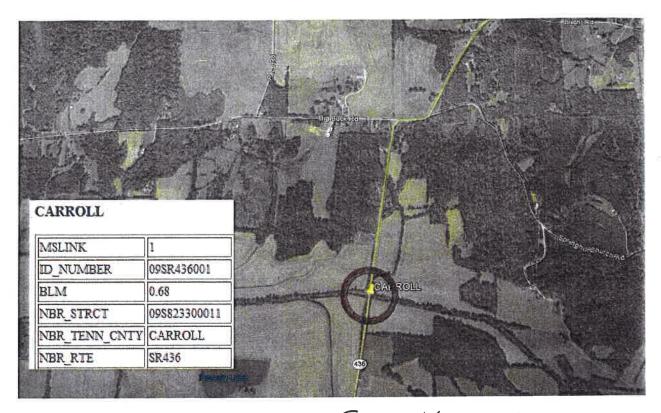
Suggested Percentages of Trucks in Design Lane

5,000 or less ADT	95%
5,000 - 10,000 ADT	90%
10,000 - 15,000 ADT	85%
15,000 - 20,000 ADT	80%
20,000 - 30,000 ADT	75%
30,000 - 40,000 ADT	70%
40,000 Plus	60%

No. of Lanes:	2
% Trucks in Design Lane:	100%
ADL in Design Lane:	

FLEX:		X	1.00	Χ	25.4	=	13	
RIGID:	0.5	Х	1.00	Х	35.5	=	18	

ADL Calculations By:	RANDY BOGUSKIE	Date: _	2/28/2018
Reviewed By:	Tony Anutur	Date:	2.28.18
[REV. 7/1/14]			



CARROLL COUNTY 5.R. 436@L.M. O.68