TENNESSEE DEPARTMENT OF TRANSPORTATION PLANNING DIVISION

PROJECT 1	NO.: 4	9S371-S1-00	3		ROUTE:	S.R. 371							
COUNTY:		CITY:											
PROJECT PIN NUMBER: 136185.13													
PROJECT 1	DESCRI	PTION: BI	BRIDGE OVER BRANCH @ L.M. 1.39										
DIVISION REQUESTING:													
					PAVEMEN	PAVEMENT DESIGN							
MAINTENANCE					STRUCTU	STRUCTURES							
S.T.I.D.]		SURVEY &							
		PMENT & A	ADM.	Ţ		TRAFFIC S			_	_			
PUBLIC TRANS. & AERO. OTHER GRESHAM-SMITH													
YEAR PROJECT PROGRAMMED FOR CONSTRUCTION: 2029													
PROJECTE	ED LETT	ING DATE:	2029							_			
TRAFFI	C ASSI	GNMENT	<u>':</u>										
							DESIGN DESIGN						
							ROADWAY AVERAG						
BASE Y	EAR		DES	IGN Y	'EAR		% TR	UCKS	DAILY LOADS				
AADT	YEAR	AADT	DHV	%	YEAR	DIR.DIST.	DHV	AADT	FLEX RIGID				
940	2029	1,200	156	13	2049	65-35	2	3	20	27			
REQUEST	ED BY:	NAME	BEN CO	OLES				DATE	8/4/25				
		DIVISION			SMITH					_			
ADDRI													
			NASHV	/ILLE	TN 3720	1-2308							
REVIEWED BY: ASHLIE BEVAN Ashlie Bevan DATE 8/4/2025							<u>5</u>						
TRANSPORTATION PROG. SUPERVISOR													
SUITE 1000, JAMES K. POLK BUILDING													
ADDROVED DV. TONY ADMITTONIC T. A. L. DATE													
APPROVE	APPROVED BY: TONY ARMSTRONG Tony Armstrong DATE 8/4/2025								<u>.5</u>				
	TRANSPORTATION MANAGER 2/ SUITE 1000, JAMES K. POLK BUILDING												
		50111 1000,	OLUMBIA IX. I	OLK	DOILDIN	J							
COMMENTS:													
FURNISH THE 2029-2049 ADL's FOR PAVEMENT DESIGN.													
TOTAL TILL BODY BOTY TIDE OF ORTHY EMERIT DEDIGIN													

THIS TRAFFIC IS BASED ON A 2023 CYCLE COUNT. THE DESIGN YEAR TRAFFIC IS BASED ON GROWTH RATE FROM THE TN-TIMES LINEAR REGRESSION TOOL. ADL'S ARE INCLUDED.

DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 AADT.

TENNESSEE DEPARTMENT OF TRANSPORTATION PLANNING DIVISION

PROJECT NO.: 49S371-S1-003	ROUTE NO.: S.R. 371
COUNTY: LAUDERDALE	CITY:
PROJECT DESCRIPTION: BRIDGE OVER BRANCH @ L.M. 1.39	·

FAP Rural

Pavement Structural Design

Calculation of Equivalent Daily 18 Kip Single Axle Loads

		ADT	Flexible			Rigid	
Type Vehicle		(No. Counted)	18-kip Factor		ADL	18-kip Factor	ADL
Pass. cars and							
motorcycles (1-2)		763	0.001	ı	1	0.001	1
Pick-up, Panel,							
Van	(3)	275	0.005		1	0.004	1
	Buses (4)	2	0.300		1	0.300	1
Sing.	2-axle,						
	6-tire (5)	7	0.240		2	0.310	2
Unit	3-axle or						
	more (6-7)	16	1.700		27	2.300	37
	4-axle (8)	3	1.110		3	1.500	5
Comb.	5-axle or						
	more (9-13)	4	1.320		5	2.200	9
Totals							·
(2039 AADT)		1,070			40		55

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: 0.5 X 1.00 X 40.2 = 20
RIGID: 0.5 X 1.00 X 54.7 = 27

ADL Calculations By: Ashlie Bevan	Date:	8/4/2025
Reviewed By: Tony Armstrong	Date:	8/4/2025
[REV. 6/12/24]		