ROUTE CLASSIFICATION FORM For use of this form, see FM 3-34.170; the proponent agency is TRADOC.												
SECTI							I					
1.1. SERIAL NUMBER						1.2. TO						
1.3. FOR INFORMATION							1.4. DATE/TIME GROUP					
1.5. NUM	1BER	OF SHEETS OF	RENCLOSURE	S			1.6. RE	CONNAIS	SSANCE OF	FICER/NCO		
1.7. UNIT	Γ						1.8. FORMATION					
1.9. SIGN	NATUI	RE										
		SED IN THE FO			MILES	M	METERS	KILO	OMETERS _	CENTIGRAD	DE F	AHRENHEIT
1.11. MA	PS											
1.12. CO	UNTR	RY					1.15. S	1.15. SHEET NUMBER				
1.13. NA	ME						1.16. S	ERIAL				
1.14. ED	ITION						1.17. SCALE					
					5	SECT	TION II					
2.1. ROU	TE CL	ASSIFICATION	(See Section \	/II, Blo	ck 7.1.)		2.2. LIMITED BY SECTIONS					
1	/	2	3	4	(5)	(5)	()			
						ECT	ION III					
3.1. ROA (See Section		ASSIFICATION Block 7.2.)	3.2. WE	ATHE	R (Include las			n, plus the	temperture)	3.3. GRID REF	FERENC	CE - START
3.4. ROA	νD									1		
0=0=:01:4		6. LIMITED ACTORS	3.7.	WIDTH	3.8. CONSTR	UCTION	3.9. LENGTH	3.10. C	BSTRUCTIONS			
3.11. START	GRID	3.12. FORMULA 3.13. SHOULDERS										
,	SECT	ION B		-				1		1	1	
3.11. START	GRID	3.12. FORMULA										
	SECT	3.13. SHOULDERS										
		3.12. FORMULA										
		3.13. SHOULDERS										
· ·	SECT	ION D										
3.11. START GRID 3.12. FORMULA												
3.13. SHOULDERS												
3.14. GRID REFERENCE - END:												
SECTION IV 4.1. ENCLOSURES												
SERIAL TITLE ATTACHED SERIAL TITLE ATTACHED						ATTACHED						
1 OVERLAY(S)					6	RAPID BRIDGE ASSESSMENT(S)						
2 MAP(S)					7	DETAILED BRIDGE ASSESSMENT(S)						
3	` '					8	PHOTOGRAPH(S)					
4						9		OTHER (Describe):				

SECTION V									
5.1. OBSTRUCTIONS AND RECOMMENDATIONS FOR UPGRADES									
5.2. SERIAL	5.3. OBSTRUCTION DETAILS (Including existing MLC)	5.4. ROAD SECTION	5.5. GRID	5.6. RECOMMENDATION FOR UPGRADE (Including new MLC)	5.7. MANPOWER	5.8. EQUIPMENT/ VEHICLES	5.9. CONSTRUCTION MATERIAL	5.10. TIME	5.11. NEW MLC

SECTI	ON VI
6.1. ROUTE CHART	
	NAME
	UNIT
	DATE/TIME GROUP
	BATTER TIME GROOT
	SCALE
	JOALL
	REMARKS
	REMARKS
6.2. NOTES	

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			SECTION VII	
7.1. FAC	TORS USED IN ROUTE CLAS	SIFICATION FO	ORMULAS. For example, 3.5/X/70/3.9(OB)	
SERIAL	FACTOR	SYMBOL	MEANING	
1	WIDTH	For example, 3.5 meters	The width of the narrowest part for any given section.	
		x	All-weather route - waterproof surface, never closed by weather other than snow or flooding.	
2	ROUTE TYPE	Υ	Limited all-weather route - loose or light surface, sometimes reduced volumeof traffic due to bad weather.	
		Z	Fair weather route - quickly impassable in adverse weather.	
3	MLC	For example, 70	The maximum MLC of the vehicle which can use the route in convoy.	
4	OVERHEAD CLEARANCE	For example, 3.9	The minimum vertical distance between the route or road surface and any overhead obstruction. Only included if height is less than the required for the MLC.	
	OBSTRUCTION TO	(OB)	Temporary or single obstructions.	
5	TRAFFIC OTHER THAN A	(T)	Regular, recurrent and serious snow blockage.	
	BRIDGE	(W)	Regular, recurrent, and serious flooding.	
7.2. FAC	TORS USED IN ROAD CLASS	SIFICATION FOR	RMULAS.	
SERIAL	FACTOR	SYMBOL	MEANING	
1	PREFIX	Α	No limiting factors.	
'	1 1141 174	В	One or more limiting factors.	
	LIMITING FACTORS:			
	SHARP CURVES	С	Radius less than 25 meters and deflecting the direction more than 90.0	
	STEEP GRADIENTS	g	Gradients of 7 percent or over.	
	POOR DRAINAGE	d	Inadequete or blocked drainage.	
2	WEAK FOUNDATIONS	f	Unstable, loose, or easily displaced.	
	ROUGH SURFACE	s	Likely to reduce convoy speed	
	EXCESSIVE CAMBER OR SUPER ELEVATION	j	Likely to cause heavy vehicle to skid or drag towards roadside.	
	DOUBTFUL CONDITIONS	?	Indeterminate or doubtful conditions expressed with ? and (). For example, (f?).	
	SHOULDERS	-	No symbol, but written reports should specify.	
3	WIDTH	_/_	Width of travelled way or total width including shoulders (when they are usable).	
	CONSTRUCTION MATERIAL:			
	TYPE X ROUTE	k	Concrete.	
		kb	Bituminous or asphaltic concrete.	
	TYPE X OR Y ROUTE	p rb	Paving brick or stone. Bitumen penetrated macadam, water-bound macadam with superficial asphalt or tar cover.	
4	TYPE Y ROUTE	r I	Water-bound macadam, crushed rock or coral. Gravel or lightly metalled.	
	TYPE Y OR Z ROUTE	nb	Bituminious surface treatment on natural earth, stabilized soil, sand-clay, and so forth.	
	TYPE Z ROUTE	n b v	Natural earth, stabilized soil, sand-clay, shell, cinders, and so forth. Bituminious construction. To be used alone only when type of bituminious construction cannot be determined. Various other types not mentioned above.	
		V	· · · · · · · · · · · · · · · · · · ·	
5	LENGTH	(km)	The length of the section in kilometers may be added in brackets if desired.	
	OBSTRUCTIONS:	(OB)	Symbol at the end of the formula indicates existence of obstruction.	
6	SNOW	(T)	Regular, recurrent and serious snow blockage.	
	FLOODING	(W)	Regular and sufficiently flooding which impedes traffic flow.	

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7.2. FACTORS USED IN ROAD CLASSIFICATION FORMULAS. (continued)

NOTE. Consider the following as obstructions:

· Overhead clearance less than 4.3 meters.

· Reductions in road widths which limit traffic capacity, such as craters.

· Gradients of 7 percent and over.

Curves with less than a 25-meter radius and deflecting more than 90.

· Ford and ferries.

Example: B/c(f?)/3.2/4.8/p/(4.5km)(OB)(T)

According to the width, classify a route or road as follows:

• Limited access. Up to 3.5 meters wide; it permits passage of isolated vehicles in one direction only.

• Single lane. From 3.5 to 5.5 meters wide; it permits use only in one direction at any one time.

• Single flow. From 5.5 to 7.5 meters wide; it permits isolated vehicles to pass or travel in the opposite direction to the main flow.

• Double flow. Over 7.3 meters wide; it permits two columns of vehicles to proceed simultaneously.

7.3. MEASURING THE RADIUS OF AN EXSISTING CURVE.

Step 1. A chord AB is set out as shown and bisected at C, so that AC = BC = a.

Step 2. From point C, the perpendicular offset (x) is measured at point D on the curve.

Step 3. The radius is calculated from the formula. $R = \frac{\frac{2}{x+a}}{2x}$



7.4 CONVERSION FACTORS

7.4. CONVERSION FACTORS.						
U.S. UNITS	MULTIPLIED BY	EQUALS METRIC UNITS				
CENTIMETER	0.39370	INCH				
FOOT	0.30480	METER				
INCH	2.54000	CENTIMETER				
KILOMETER	0.62137	MILE				
METER	3.28084	FEET				
MILE	1.60934	KILOMETER				
TEMPERTURE						
CENTIGRADE DEGREES	C°= - 5(F°- 32) 9	FAHRENHEIT DEGREES				
FAHRENHEIT DEGREES	$F = \frac{9C}{5} + 32$	CENTIGRADE DEGREES				

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7.5. SYMBOLS AND DESCRIPTIONS								
SYMBOLS DESCRIPTION								
17 7/15	Sharp curve. Less than 25 meters (the figure indicates radius) [left] Series of sharp curves. The figures indicate the number of curves/radius [right]							
Steep grade. Arrows point up hill; grade in percent (length of the arrows may show the length of the grade when the scale allows)								
4 120	Constriction. Left-Width Right-Total length							
_4 / 3.5	Arch constriction. Left-Width Right-Overhead clearance							
Tunnel. Left-Height Right-Length Bottom-Roadway and total width (include footpath)								
5 1 1 4	Underpass constriction. Width [left] and height [right]							
Obstacle bypass. Easy-Can be crossed within the immediate vicinity by a NATO track equivalent to a 2.5-ton truck. Difficult-Can be crossed within the immediate vicinity, but some work will be necessary to prepare the bypass. Impossible-Can be crossed after repairing, building of a new construction, or by a detour.								
4.2 X	<u>Level crossing.</u> The figure indicates the height of the power line aboveground.							
3.5 30 6 C C O.6	Bridge. Arrow to the location Top segment-MLC Left-Overhead clearance In the middle-Serial number Underneath-Roadway width Right-Overall length	Culvert. Arrow to location. Top-Depth of fill Bottom-Diameter of pipe]						
>>	Limits of sector. Left Critical point. Right-to be numbered and described in a remark frame)							
Concealment. Line of trees (deciduous) Left-Evergreen Right-Woods Possibility of driving off the road. Denoted by an arrow. For wheeled vehicles, the figure indicates the length of road where driving possible [left] or for tracked vehicles [right]).								
13/V	Ferry. Arrow to the location Top-serial number and type (V = vehicle, P = pedestrian) Bottom-MLC							
3/V/1.6/X 18/2.5/G/0.4	Ford. Arrow to the location. Top-serial number, type, current velocity of stream, seasonal limitations (V = vehicle, P = pedestrian, X = without seasonal limitations, Y = seasonal limitations). Bottom-length of crossing, width of ford, nature of bottom, depth (M = mud, C = clay, S = sand, G = gravel, R = rock, P = artificial paving).							
W	<u>Difficult approach to cross site.</u> No symbol if approaches are easy.							

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