

**DEFINITIONS OF VISUAL CLASSIFICATION OF HEAVY COMMERCIAL VEHICLES  
BY BODY TYPE, INDUSTRY, AND ANY ADDITIONAL DETAILS**

The following examples are to help clarify the different body types, the industry and any additional details that may help planners understand the freight that is being shipped at the site. For clarification of the 13 vehicle classes please refer to the following webpage.

[http://www.dot.state.mn.us/traffic/data/reports/vc/Vehicle\\_Classification\\_Scheme.pdf](http://www.dot.state.mn.us/traffic/data/reports/vc/Vehicle_Classification_Scheme.pdf)

The following table summarizes the body types and special modifiers or additional details. The table also provides an example photograph of the vehicle for reference including the vehicle classification. Due to variations in body type design by vehicle class sometimes multiple photographs are presented.

<b>Body Type</b>	<b>Special Modifier</b>	<b>Photograph &amp; Page</b>
Box		3A, 3B, 4A, 4B
Box	Reefer	5A, 5B
Bus		6A, 6B, 7A
Concrete Truck		7B
Drill Rig		8A
Dump Truck		8B
Dump Truck	Low Box	9A
Dumpster Hauler		9B, 10A
Dumpster Hauler	No Dumpster	10B
Farm Equipment		11A, 11B
Flatbed		12A, 12B, 13A, 13B
Flatbed	w/Hoist	14A, 14B
Garbage Truck		15A
Grain Box	Aggregate	15B, 16A, 16B, 17A, 17B
Grain Box	Grain	18A, 18B, 19A, 19B
Grain w/Feed Auger		20A, 20B, 21, 22A
Livestock Trailer		22B, 23A, 23B
Low Boy		24A, 24B
Recreational Vehicle		25A, 25B
Semi Tractor	w/o Trailer	26A, 26B
Service Truck	Emergency Vehicle	27A
Service Truck	Railroad Maintenance Vehicle	27B
Service Truck	Tow Truck	28A, 28B

<b>Body Type</b>	<b>Special Modifier</b>	<b>Photograph &amp; Page</b>
Service Truck	Utility	29A, 29B, 30A
Stake		30B, 31A
Tanker	Bulk Dry	31B
Tanker	Compressed Gas (Non-Flammable)	32
Tanker	Dairy	33A, 33B
Tanker	Fuel	34A, 34B
Tanker	Fuel – Propane (Or Liquid Natural Gas)	35A, 35B
Tanker	Chemical	
Tanker	Septic Waste	36A
Tanker		36B, 37A
Unknown		38A
Van		38B

The following tables summarize the different industries for the heavy commercial vehicles and additional modifiers that may be used to describe the heavy commercial vehicles.

<b>Industry</b>	<b>Additional Modifiers</b>
Agriculture	Car Carrier
Agriculture – Livestock	Empty
Building Materials	Full
Chemical	Hauling Semi-Tractor Piggy-Back
Construction - Equipment	Low Box
Construction – Materials	No Dumpster
Dairy	Overweight
Fuel	w/Car Trailer
Grain or Gravel	w/Hoist
Rental Truck	w/o Trailer
Retail - Auto Supplies	w/Trailer
Retail - Building Supplies	
Retail – Electronics	
Retail – Food	
Retail – Furniture	
Retail - Hardware	
Scrap Metal	
Service Industry	
Shipping	
Timber	
Waste	



Photo 3A: Class 5, 2 axle, 6 tires, Single Unit; Box.



Photo 3B: Class 8, 3 axle, Semi-Tractor with Trailer; Box; Shipping.



Photo 4A: Class 9, 5 axle, Semi-Tractor with Trailer; Box.



Photo 4B: Class 6, 3 axle Truck and Trailer; Box.



Photo 5A: Class 5, 2 axles, Single Unit; Box; Reefer.



Photo 5B: Class 9, 5 axle, Semi-Tractor with Trailer; Box; Reefer.



Photo 6A: Class 5, 2 axles, Single Unit; Bus.



Photo 6B: Class 5, 2 axles, Single Unit; Bus.



Photo 7A: Class 4, 3 axles, Single Unit; Bus.



Photo 7B: Class 7, 4+ axle, Single Unit; Construction; Concrete Truck.



Photo 8A: Class 6, 3 axle, Single Unit, Construction; Drill Rig.



Photo 8B: Class 6, 3 axles, Single Unit; Dump Truck; Empty.



Photo 9A: Class 5, 2 axles, Single Unit; Dump Truck, Low Box.



Photo 9B: Class 7, 4+ axle, Single Unit; Dumpster Hauler; Full.



Photo 10A: Class 6, 3 axle, Single Unit; Dumpster Hauler; Full.



Photo 10B: Class 6, 3 axle, Single Unit; Dumpster Hauler, No Dumpster.



Photo 11A: Class 5, 2 axle, Single Unit; Farm Equipment, Agriculture.



Photo 11B: Class 5, 2 axle, Single Unit; Farm Equipment, Agriculture.



Photo 12A: Class 6, 3 axles, Single Unit; Flatbed, Empty.



Photo 12B: Class 6, 3 axles, Single Unit; Flatbed, Full. Notice this is the same vehicle as above just loaded and going in the opposite direction.



Photo 13A: Class 9, Semi-Tractor with Trailer; Flatbed; empty.



Photo 13B: Class 9, 5 axle, Semi-Tractor with Trailer; Flatbed.



Photo 14A: Class 6, 3 axles, Single Unit; Flatbed; Construction – Materials; w/Hoist, Loaded.



Photo 14B: Class 6, 3 axles, Single Unit; Flatbed; w/Hoist.



Photo 15A: Class 6, 3 axle, Single Unit; Waste; Garbage Truck.



Photo 15B: Class 9, Semi-Tractor with Trailer; Grain Box, Aggregate.



Photo 16A: Class 9, 5 axle, Semi-Tractor with Trailer; Grain Box; Aggregate.



Photo 16B: Class 9, 5 axle, Semi-Tractor with Trailer; End-Dump Hopper, Aggregate.



Photo 17A: Class 9, 5 axle, Semi-Tractor with Trailer; Heavy-Duty Bottom-Dump; Aggregate.



Photo 17B: Class 9, 5 axle, Semi-Tractor with Trailer; Grain Box; Aggregate.



Photo 18A: Class 9, 5 axle, Semi-Tractor with Trailer; Grain Box; Grain.



Photo 18B: Class 9, Semi-Tractor with Trailer; Grain Box; Grain.



Photo 19A: Class 9, 5 axle, Semi-Tractor with Trailer; Grain Box; Grain.



Photo 19B: Class 9, 5 axle, Semi-Tractor with Trailer; Grain Box; Grain.



Photo 20A: Class 7, 4+ axles, Single Unit, Grain with Feed Auger; Grain.



Photo 20B: Class 9, 5 axle, Semi-Tractor with Trailer; Grain with Feed Auger, Grain.



Photo 21: Class 9, 5 axle, Semi-Tractor with Trailer; Grain with Feed Auger, Grain.



Photo 22A: Class 5, 2 axles, Single Unit, Grain Box, Agriculture; Grain.



Photo 22B: Class 9: 5 axle, Semi-Tractor with Trailer; Agriculture; Livestock.



Photo 23A: Class 9, 4 axle, Truck with Trailer; Agriculture; Livestock, Poultry.



Photo 23B: Class 9, 5 axle, Semi-Tractor with Trailer; Agriculture; Livestock Trailer.



Photo 24A: Class 9, 5 axle, Semi-Tractor with Trailer; Low Boy; Construction Equipment.



Photo 24B: Class 8: 4 axle, Semi-Tractor with Trailer; Lowboy; Auto parts.



Photo 25A: Class 4, 2 axles, Single Unit; Recreational Vehicle; w/Car being towed.



Photo 25B: Class 3, 2 axle, Truck with Trailer; RV.



Photo 26A: Class 6, 3 axle, Single Unit; Semi-Tractor w/o Trailer.



Photo 26B: Class 8, 4 axle, Semi-Tractor; with another piggy-backing.



Photo 27A: Class 5, 2 axles, Single Unit; Service Truck; Emergency Vehicle.



Photo 27B: Class 6, 3 axles, Single Unit; Service Truck; Shipping, Railroad Maintenance Vehicle.



Photo 28A: Class 9, 5 axles, Semi-Tractor with Trailer; Service Truck; Tow Truck.



Photo 28B: Class 5, 2 axles, Single Unit; Service Truck; Tow Truck.



Photo 29A: Class 9, 5 axle, Truck with Trailer; Service Truck; Construction; Utility: w/Construction Equipment.



Photo 29B: Class 5, 2 axles, Single Unit; Service Truck; Service Industry.



Photo 30A: Class 5, 2 axles, Single Unit; Service Truck; Utility.



Photo 30B: Class 10, 6 axle, Truck with Trailer; Stake Truck; Construction; w/Construction Equipment.



Photo 31A: Class 12, 6 axle Twin Trailer; Stake; Timber. This one weighed 102,000 pounds!



Photo 31B: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Dry Bulk Tanker.



Photo 32: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Non-Flammable Compressed gas.



Photo 33A: Class 7, 4+ axle, Single Unit; Tanker; Dairy.



Photo 33B: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Food; Dairy.



Photo 34A: Class 5, 2 axle, 6 tires, Single Unit; Tanker; Fuel; Petroleum.



Photo 34B: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Fuel; Petroleum.



Photo 35A: Class 5, 2 axle, 6-tires, Single Unit; Tanker; Fuel; Propane or Liquid Natural Gas (LNG).



Photo 35B: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Fuel; Propane or LNG.



Photo 36A: Class 6, 3 axle, Single Unit; Tanker; Waste; Vacuum Truck; Septic or Liquid Waste.



Photo 36B: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Liquid.



Photo 37A: Class 9, 5 axle, Semi-Tractor with Trailer; Tanker; Liquid.



Photo 37B: Class 9: 5 axle, Semi-Tractor with Trailer; Shipping; Car Carrier.



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Photo 38A: Class 9, 5 axle; Unknown.



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Photo 38B: Class 5, 2 axle, Single Unit; Van.