



IOWA DEPARTMENT OF TRANSPORTATION

MOTOR VEHICLE DIVISION

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# Why do we investigate and fill out crash reports?

Investigating and reporting motor vehicle crashes is a necessary law enforcement officer duty. Reports are intended to help reduce the number of crashes, deaths, and injuries through the collection of data elements and studying the data on how crashes occur. You play a vital role in the collection of this data and you must understand each piece of information that you enter.

Every reported crash must be promptly investigated, and every reasonable effort made to obtain accurate information for the completion of the report. If this is not possible, law enforcement shall use their best judgment and record their considered opinions based on their investigation and experience. Crash prevention programs and successful prosecutions in court are both dependent upon thorough crash investigation and report writing. Because crash reports may be viewed by lawyers, judges, and insurance companies, the quality of the report is crucial. The location of the crash, road condition at the time of the crash, and other evidence at the scene cannot be recreated unless the officer during the initial investigation documents these events.

Compliance with instructions in this manual will help ensure that reports are filled out completely, accurately, uniformly, and will be of the greatest possible value for crash prevention purposes.

The biggest misconception about crash reports is that they are for insurance companies. Yes, the Iowa Traffic Crash Report is used by insurance companies; however, data reported on the form is also used by many others, including those listed below.

- The Iowa Department of Transportation (Iowa DOT) to update driver records and get problem drivers off our roads and enforcement of Iowa's financial responsibility law.
- City, county, and state traffic engineers to help redesign and upgrade roads and intersections.
- Law enforcement agencies to assign patrols to roads where an unusually high number of crashes occur.
- Federal safety agencies that develop safety initiatives, implement safety programs, initiate vehicle recalls, and contribute to making and changing laws.
- Researchers studying different segments of the driving population or helping design safer vehicles.
- Other stakeholders who need quality data to develop policies and programs to improve the safety and operation on lowa's transportation network.

Accurate and timely data is important to everyone. Officers need to send in their crash reports to the Iowa DOT within 24 hours after their investigation. Ideally an initial crash report should be sent in within five days of the crash.

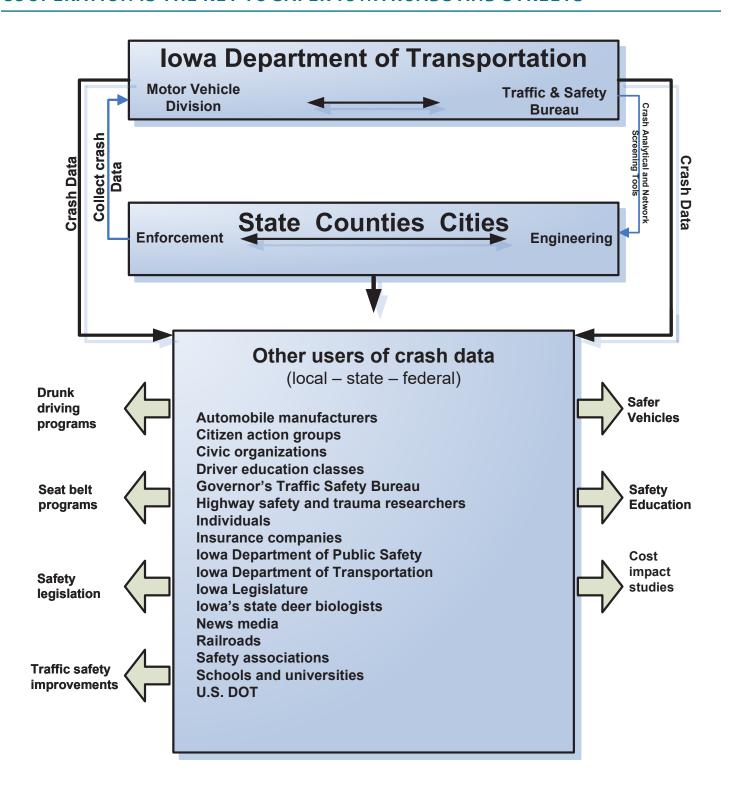
Crashes result in an economic cost of increased insurance rates, increased medical expenses, loss of property, loss of life, and loss of personal income. They produce a drain on law enforcement in both time and money, and pose a personal risk to every driver, passenger, and pedestrian in lowa.

By gaining more complete and accurate information about traffic crashes and creating a more complete crash database, unsafe roadways can be identified, problems can be mitigated, and the state can move toward our goal of zero fatalities.

The lowa DOT extends a sincere thank-you to law enforcement agencies and officers performing this valuable duty for the citizens of lowa.

## **MOTOR VEHICLE CRASH DATA CYCLE**

#### COOPERATION IS THE KEY TO SAFER IOWA ROADS AND STREETS



## INVESTIGATING OFFICER'S REPORT OF MOTOR VEHICLE CRASH FORM

This manual details how to complete the Investigating Officer's Report of Motor Vehicle Accident paper form. It is also applicable to Traffic and Criminal Software (TraCS) because almost all of Iowa's crash reports are collected electronically using TraCS. This software package is available to all law enforcement agencies in Iowa to complete crash reports and transmit them to the Iowa DOT electronically. The crash report in TraCS is the Mobile Accident Reporting System (MARS) form. This guide will have some specific information for users of TraCS. Eventually this guide will be completely changed over to a TraCS-specific guide.

**WHAT IS A REPORTABLE CRASH?** A reportable crash is one in which all damages (vehicle and property) are combined and estimated to be \$1,500 or more, and/or an injury or fatality has occurred anywhere in the state of Iowa. This **would** include crashes that occur on private property.

#### COMPOSITION OF THE 2019 PAPER CRASH FORM

The 2019 Investigating Officer's Report of Motor Vehicle Accident has a total of four pages (two sheets front and back).

- **Page 1** is for collecting all information about the motor vehicle labeled "Unit 1"; including driver, owner, commercial vehicle information, occupant safety restraint use, and injuries that occurred in this unit only.
- Page 2 is for collecting all information about the motor vehicle labeled "Unit 2," if a second motor vehicle was involved in the crash.
- Page 3 is for the information for location of crash, crash environment, roadway characteristics, first harmful event, and work zone related activity, followed by the "Non-motorist" section, non-motor vehicle property damage, witness information, secondary crash information, and officer information.
- Page 4 finishes off the report with an area for a diagram and a narrative of the crash.

For crashes involving more than 2 units, it will require taking another packet and marking "unit 1" as "unit 3" and "unit 2" as "unit 4," as well as changing the page number.

In TraCS, you just need to add additional Units, Witnesses, Property Damage, or Injured Persons as needed.

Instructions on how to complete the report begin on the next page.

#### **HEADER SHOWN ON PAGE 1 AND PAGE 3**

<b>@</b>	Form 433003 (03-19)	INVESTIGAT OF MOTO	Sheet 1 of 4  Law Enforcement Case Number:		
MA	IL REPORTS TO: Iowa Departn	nent of Transportation, Driver & I	dentification Services, P.O. Box 92	04, Des Moines, Iowa 50306-9204	J.
	Date of Accident 1	Time of Accident 2	County 3	Accident occurred within	corporate limits of (city): 4

#### 1 & 2 CRASH DATE AND TIME

**DEFINITION:** The date (month, day and year) and time (00:00-23:59 military time) at which the crash occurred. Midnight is designated as 00:00 and is considered the start of a new day. If the date and time are not known, (usually a hit & run) use the date and time that the damage was first discovered.

**RATIONALE**: Important for management/administration, evaluation, and linkage.

#### **3** COUNTY

**DEFINITION**: The county in which the crash physically occurred. (For a list of lowa counties see <u>page 89</u>.)

**RATIONALE**: Important for analyses of state and county area programs. Critical for linkage of the crash file to other state data files.

## 4 ACCIDENT OCCURRED WITHIN CORPORATE LIMITS OF (CITY)

**DEFINITION:** If the crash occurred within corporate limits of city, enter the name of the city.

**RATIONALE:** Important for analyses of state and county area programs. Critical for linkage of the crash file to other state data files.

#### **5** LAW ENFORCEMENT CASE NUMBER

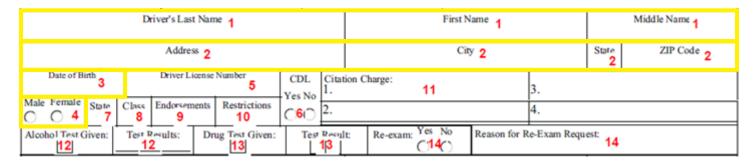
**DEFINITION:** Enter a unique case number defined by your agency in the "Law Enforcement Case Number" field that will identify this crash.

**RATIONALE:** Used to document a specific crash. If this identifier is available at the scene, it can also be recorded on the Emergency Medical Services (EMS) record for linkage purposes. Enables subfiles to be created for analyses and linked back to the crash data file.

#### "UNIT 1" AND "UNIT 2" (PAGES 1 AND 2)

**DEFINITION**: A unit is any single **motor** vehicle (i.e., car, truck, semi, agricultural tractor, motorcycle, or other vehicle with an engine) or the combination of a power unit and a trailer. **Non-motorists** such as pedestrians, bicyclists, and horse and buggy occupants should not be entered as units (refer to the "**Non-motorist**" section on <u>page 72</u>). The first page of your report consists of all information pertaining to "Unit 1," and page 2 will consist of the second unit involved in the crash. If you need to add more units, use additional packets.

For each unit, start with completing the "**Driver Information**." Fields 1 through 14 relate directly to the driver that was physically operating the power unit of the vehicle involved.



#### **DRIVER'S INFORMATION**

- If the vehicle is parked, skip to the "Owner" section.
- For crashes where the driver is unknown, leave the driver's name field blank and skip to the "Owner" section.
- If the vehicle was disabled from a previous crash, two reports must be completed because these are two separate incidents.

In TraCS, if the "Vehicle Action" is a code 12 "Legally parked" or code 13 "Illegally parked/unattended," the driver's information will be grayed out. This is done to avoid having a person listed as a driver when the vehicle was not being actively driven at the time of the crash. Owner's and insurance information is still gathered in these cases, but no one may be listed as the driver of a parked car.

#### 1 DRIVER'S NAME

**DEFINITION**: The full name of the individual involved in the crash.

**RATIONALE**: This data element should be collected to facilitate linkage when names are available to health and insurance files and to corroborate the driver's license number of drivers. This is required to meet lowa's financial responsibility laws and enables sanctions to be created when appropriate.

Clearly enter the "**Driver's Last Name**," "**First Name**," and "**Middle Name**" with the last, first, and middle names **exactly** as it appears on the driver's license.

#### 2 DRIVER'S ADDRESS

**DEFINITION**: Current residence address of the driver

**RATIONALE**: Used to submit request for insurance information or to mail out sanction notices.

Enter the driver's complete "Address," "City," "State," and "ZIP Code." If the driver is from a foreign country, a location other than one of the 50 U.S. states, U.S. territories, Canada, or Mexico, enter the name of the country in the "State" field. (If the address has changed, enter the new address and note the old in the "Narrative" section. Mark at the top of the form to "See Narrative.") Advise the individual to notify the lowa DOT of their new address if they are an lowa resident.

#### **3 DRIVER'S DATE OF BIRTH**

**DEFINITION**: The date of birth of the person driving the vehicle using the MM/DD/YYYY format.

**RATIONALE**: Accurate reporting of date of birth is used to assess the effectiveness of occupant protection systems for specific age groups and to identify the need for safety programs directed toward them. This element is also critical in providing linkage between the crash, emergency medical services, and hospital records.

Enter the MM/DD/YYYY information in the driver's "Date of Birth" field. When entering driver's information, investigators should record the date of birth exactly as it appears on the driver's license. Discrepancies in the driver's date of birth should be explained in the narrative.

#### **4 DRIVER'S GENDER**

**DEFINITION**: The gender of the person involved in the crash.

**RATIONALE**: Used to evaluate the effect of gender of the person involved on occupant protection systems and motor vehicle design characteristics.

Indicate whether individual is a male or female.

Driver's Last Name 1					First Name 1			Middle Name	
Address 2					City	2	State 2	ZIP Code 2	
Date of Birth 3	Driver License	5	CDL Yes No	Citation C	harge:	3.			
Male Female State 7	Class Endorsements  8 9	Restrictions 10		2.		4.			
Alcohol Test Given:	Test Results: Dri	ng Test Given:	Test	Recult:	Re-exam: Yes No	Reason for Re-Exam Requi	est: 14		

#### **5** DRIVER'S LICENSE NUMBER

**DEFINITION**: A unique set of alphanumeric characters assigned by the authorizing entity issuing a driver's license to the individual.

**RATIONALE**: This element is critical to providing linkage between crash and driver's license files at the state level.

- a. Use the unique alphanumeric identifier assigned by the official licensing authority of the state, commonwealth, foreign country, U.S. government, Indian nation, etc. Enter the information in the "Driver License Number" field exactly as it appears on the driver's license. Even if a person's license is suspended, revoked, or expired, the number should be entered here. If the driver has not been issued a license, enter "None" in this field unless the lowa DOT has issued an assigned customer number. Here's an example: If the driver's license number is C123456, include the "C" in front of the number in the "Driver License Number" field. Put "IA" in the "State" field. In TraCS leave the DL# blank if the driver does not have a Driver's License.
- b. Investigating officers are encouraged to conduct a computer check on all drivers involved in a crash to ascertain the validity of their driver's license. If the license is determined to be invalid for any reason, officers are further encouraged to take appropriate enforcement action.

#### **6** COMMERCIAL DRIVER'S LICENSE (CDL)

**DEFINITION**: This indicates that the license is a commercial driver's license.

**RATIONALE**: This information is mandated by the Federal Motor Carrier Safety Administration for commercial drivers. It is critical to providing linkage between crash and driver's license files at the state level. This information is important to separate the noncommercial licenses included by some states in Class C with the commercial licenses.

Indicate yes or no.

#### 7 DRIVER'S LICENSE STATE

**DEFINITION**: The geographic or political entity issuing a driver's license, which includes the United States, the District of Columbia, and outlying areas; Indian nations, U.S. government, Canadian provinces, and Mexican states (including the Distrito Federal), as well as other jurisdictions.

**RATIONALE**: Necessary to evaluate the effectiveness of various licensing laws. This element is also critical in providing linkage between the crash and driver's license files at the state level.

Enter the standardized two-digit abbreviation for the state or country in which the driver is legally licensed. Refer to <a href="mailto:page-88">page-88</a> for a listing of two letter state/country designations. If the driver is not licensed to drive a vehicle in any state or country, leave this data blank and write "None" in the "Driver License Number" field unless there is an assigned lowa DOT customer number, then use "IA" to show lowa issued this customer number. In TraCS, if the driver does not have a driver's license, select "NO" from the list for None.

#### 8 CLASS

**DEFINITION**: This indicates the type of driver's license issued by the state and the type of motor vehicle the driver is qualified to drive.

**RATIONALE**: This information is mandated by the FMSCA for commercial drivers. This element is critical to providing linkage between the crash and driver's license files at the state level.

List the class as shown on the license.

#### 9 ENDORSEMENTS

**DEFINITION**: Any provisions to the driver's license, both commercial and noncommercial.

**RATIONALE**: This information is mandated by the Federal Motor Carrier Safety Administration (FMCSA) for commercial drivers. This element is critical to providing linkage between the crash and driver's license files at the state level.

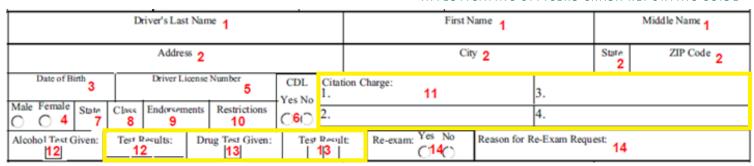
List the endorsement codes (not labels) exactly as shown on the license. Do not separate with commas or any other punctuation.

#### **10 RESTRICTIONS**

**DEFINITION**: Limitations assigned to an individual's driver's license by the license examiner.

**RATIONALE**: Used to identify if a driver involved in a crash has limitations on their driver's license that may have pertained to or led to the crash.

List the restriction codes (not labels) exactly as shown on the license. Do not separate with commas or any other punctuation.



#### **11 CITATION CHARGE**

**DEFINITION**: All motor vehicle-related violation codes, if any, that apply to this driver.

**RATIONALE**: Important for evaluation of safety laws and enforcement practices.

If a charge related to the crash is filed against a driver, enter the code number and abbreviated text in the "Citation Charge" field. For example: 321.277 – reckless driving. If more space is needed, add the additional charges to the narrative.

#### 12 ALCOHOL TEST INFORMATION

**DEFINITION**: Indication of the presence of alcohol by test, type, and result.

**RATIONALE**: Alcohol remains the most prevalent drug involved in motor vehicle crashes. Capturing alcohol concentration whenever a driver or non-motorist is tested will provide an accurate assessment of the role of alcohol involvement. The type of test used to obtain the alcohol concentration also is important information to collect.

- **a.** "Alcohol Test Given" refers to a blood, breath, urine, or vitreous (fluid surrounding the eye) test that has been taken.
  - **Code 1 None** (test not requested)
  - Code 2 Blood
  - Code 3 Urine
  - Code 4 Breath
  - Code 5 Vitreous
  - **Code 9 Refused** (test requested but the driver refused to take the test)
- b. If the test result is known before the crash report is submitted to the lowa DOT's Office of Driver Services, enter the result under "Test Results." If the test result is not available when the crash report is submitted, send the results later using a copy of the officer's report you submitted earlier to the lowa DOT and at the end of the "Narrative" leave blank line and then type in that "Test Results" were added.

- **c.** If any test was given and it was under the legal limit, still enter this information with the results.
- d. If you have indicated under "Driver Condition" that the driver was impaired and yet you have not indicated a test, indicate in the narrative the reason that they were impaired yet not tested.

#### 13 DRUG TEST INFORMATION

**DEFINITION**: Indication of the administered drug test, type, and result. Excludes drugs administered postcrash.

**RATIONALE**: Identifying drug-related crashes helps develop and evaluate programs directed at reducing drug- and alcohol-related crashes. Whenever evidence of drug use is available, it should be captured.

**"Drug Test Given"** refers to the type of test that has been taken.

**Code 1 None** (test not requested)

Code 2 Blood

Code 3 Urine

Code 5 Vitreous

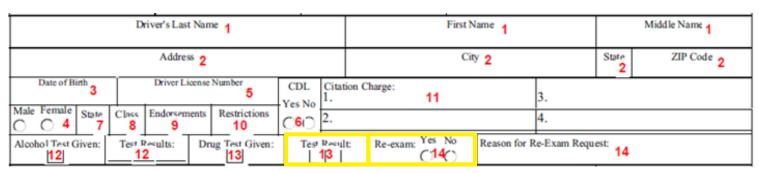
**Code 9 Refused** (test requested but the driver refused to take the test)

"Drug Test Results" can fall into one of the below categories.

If the test is known before the crash report is submitted to the lowa DOT's Office of Driver Services, indicate what type of drug was present. If the test result is not available when the crash report is submitted, send the result when available.

**Code 01 Negative –** when it has been determined that none was present.

**Code 02 Cannabis** – when marijuana is present.



#### Code 03 Central nervous system depressants –

when it has been determined that drugs are present that are sometimes referred to as sedatives and tranquilizers, which are substances that can slow brain activity. Some of the common types are Benzodiazepines (Valium, Xanax), non-Benzodiazepine (Ambien, Lunesta, Sonata), Barbiturates (Mebaral, Nembutal). Used when the person is not prescribed these drugs.

#### Code 04 Central nervous system stimulants -

when it has been determined that drugs are present that are sometimes referred to as speed or uppers, which are substances that can speed up brain activity. Some of the common types of CNS stimulants include Cocaine, "Crack", Amphetamines and Methamphetamine ("Crank"). Used when the person is not prescribed these drugs.

#### Code 05

**Hallucinogens** – when drugs are present that are used to modify people's perceptions, including LSD and Psilocybin (magic mushrooms).

#### Code 06

**Inhalants** – when ordinary household products are present that are inhaled or sniffed to get high.

#### Code 07

Narcotic analgesics – when drugs are present and the person is not prescribed the drugs used for relief of severe pain and includes Heroin, Morphine, and Codeine.

#### Code 08

**Dissociative anesthetic (PCP)** – when drugs used for general anesthetic are present.

#### Code 09

**Prescription drug** – when tested positive for a drug that has been prescribed to the individual.

#### Code 98

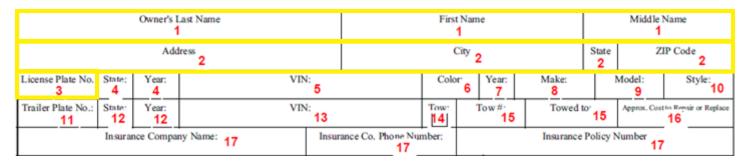
Other (explain in the narrative field) – when none of the above are applicable.

#### 14 RE-EXAM

**DEFINITION**: This is a request for the driver's skills to be re-examined based on possible physical or mental impairment that the officer observed at the scene of the crash. A re-exam is not to be requested to punish the driver. You must be able to articulate a reason you think the driver should be re-examined.

**RATIONALE**: Expedite action taken against possible unsafe drivers.

Indicate whether you feel this person should be re-examined and give a brief description of why. You can use the "Narrative" field if you wish to give more information. You can also attach any other documentation you want to include with the report.



#### **OWNER SECTION**

The "Owner" section of the Investigating Officer's Crash Report details information concerning the owner of the vehicle, the vehicle information, as well as any vehicle, trailer, or object that is being towed by the power unit, and any insurance information related to this vehicle.

#### **1 OWNER'S NAME**

**DEFINITION:** The registered owner or owners of the main power unit, which could be a car, pickup, motorcycle, or a vehicle that could be considered a commercial vehicle such as a truck-tractor, etc. The power unit types are found on the code sheet under "**Vehicle Configuration**."

**RATIONALE**: The actual owner's information is used to meet the requirement of lowa's financial responsibility requirements and used to create sanctions, if needed. The vehicle information is used in various studies conducted on the safety of the vehicle and any improvements needed on a specific vehicle.

- a. Enter the "Owner's Last Name," "First Name," and "Middle Name" exactly as it appears on the vehicle registration. If the vehicle is registered to a business firm or company, enter the company name in the "Owner's Last Name" field and as it is shown on the registration.
- b. If there is more than one name on the registration, enter the name listed first on the registration.
- c. If the driver is the same as owner, it is acceptable to write "Same as above." In TraCS you will be asked if the owner is the same as the driver and it will automatically fill in the same information.
- d. When there is a combination of vehicles, such as a car pulling a trailer or a semitrailer involved, enter the owner of the power unit only, which would be the car or the semi part of the semitrailer.
- e. Use the information that comes back on the registration check. If there is a discrepancy regarding ownership of the vehicle between the registration information and what the driver advises, please note that in the "Narrative" section.
- f. If a leased vehicle is involved in a crash, enter the name of the person or company to whom the vehicle is leased and not the name of the leasing company.
- g. To document the owner of a short-term rental vehicle, list the name of the rental company as shown on the rental agreement.

#### 2 OWNER'S ADDRESS

**DEFINITION**: Current location where owner currently resides.

**RATIONALE**: Used to submit request for insurance information or to mail out sanction notices.

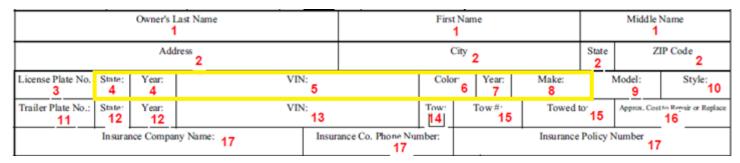
Enter the owner's complete "Address, City, State, and ZIP Code." If the owner is from a foreign country, a location other than one of the 50 U.S. States, U.S. Territories, Canada, or Mexico, enter the name of the country in the "State" field. (If the address has changed, enter the new address and note the old in the "Narrative" section. Mark at the top of the form to "See Narrative.") Advise the individual to notify the lowa DOT of their new address if they are an lowa resident.

#### **3 LICENSE PLATE NUMBER**

**DEFINITION**: The alphanumeric identifier or other characters, exactly as displayed, on the registration plate or tag affixed to the motor vehicle. For combination trucks, the motor vehicle plate number is obtained from the power unit or tractor.

**RATIONALE**: Critical for linkage between the crash and motor vehicle registration files to access the motor vehicle identification number.

- a. Enter the entire license plate number, including all letters as it appears on the registration. Officers should verify the number on the registration to the number displayed on the license plate to ensure that the correct number is recorded.
- b. Entering the county name is not required.



#### **4** LICENSE PLATE/STATE/YEAR

**DEFINITION**: The state, commonwealth, territory, Indian nation, U.S. government, foreign country, etc., issuing the registration plate and the year of registration as indicated on the license plate displayed on the motor vehicle. For foreign countries, the Model Minimum Uniform Crash Criteria (MMUCC) requires only the name of the country.

**RATIONALE**: This element is critical in providing linkage between the crash and motor vehicle registration files to access the motor vehicle identification number.

- a. Enter the state using the two-letter state abbreviations in the "**State**" field as shown **Appendix C on page 104.**
- b. Enter the validation sticker year in the "Year" field in the "License Plate No." section as this would be the most recent year of registration.

## 5 VIN (MOTOR VEHICLE IDENTIFICATION NUMBER)

**DEFINITION**: A unique combination of alphanumeric characters assigned to a specific motor vehicle that is designated by the manufacturer.

**RATIONALE**: Important to identify specific motor vehicle design characteristics and occupant protection systems for effectiveness evaluations.

- a. This is a manufacturer-assigned number that is permanently affixed to the motor vehicle. You should attempt to verify the VIN listed on the registration against the VIN plate on the vehicle itself before entering it on the crash report.
- The VIN plate on most automobiles, pickup trucks, and vans is located on the front of the dashboard, in the front left corner, visible through the windshield.
- c. The VIN plate on most tractor-trailers is located on a plate in the passenger compartment. This plate can readily be seen by opening the driver's door.
- d. The VIN plate on the majority of motorcycles in located on the fork or frame itself, not the number on the engine; most motorcycles have an engine serial number that is different from the VIN.
- e. Be sure to enter the full number in the "VIN" field.

#### **6 COLOR OF MOTOR VEHICLE**

**DEFINITION**: The paint color of the vehicle driven.

**RATIONALE**: Used to ensure that the vehicle is the correct one that is shown in the registration files.

Enter the three-letter description in the "**Color**" field. Refer to **Appendix D on page 105** for color code description.

#### 7 YEAR OF MOTOR VEHICLE

**DEFINITION**: The year that is assigned to a motor vehicle by the manufacturer.

**RATIONALE**: Important for use in identifying motor vehicle model year for evaluation, research, and crash comparison purposes.

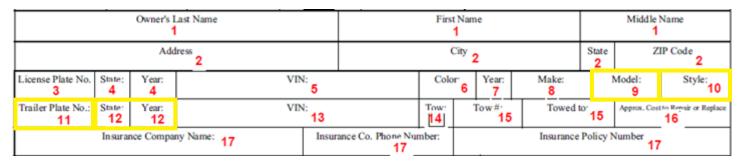
This information is found on the registration paperwork or can be obtained by running a registration check. You can enter the last two digits in the "Year" field by the make and model fields.

#### 8 MAKE OF MOTOR VEHICLE

**DEFINITION**: The distinctive name applied to a group of motor vehicles by a manufacturer.

**RATIONALE**: Important for use in identifying motor vehicle make, for evaluation, research, and crash comparison purposes.

Enter the manufacturer of the vehicle in the "Make" field. Some examples of make for passenger vehicle include Ford, Chrysler, Chevrolet, Toyota, etc. For trucks and buses some possible entries are Dodge, Ford, GMC, International, Freightliner, etc. For motorcycles, motorbikes, etc., appropriate entries would be Honda, HD (Harley-Davidson), Yamaha, etc. Refer to page 104 for more National Crime Information Center approved abbreviations.



#### 9 MODEL OF MOTOR VEHICLE

**DEFINITION**: The manufacturer-assigned code denoting a family of motor vehicles (within a make) that have a degree of similarity in construction, such as body, chassis, etc.

**RATIONALE**: Important for use in identifying the motor vehicle model for evaluation, research, and crash comparison purposes.

Assigned by motor vehicle manufacturer and is obtained from the vehicle registration. Enter the manufacturer's model name such as Ram, F150, Impala, etc. On most pickup truck registrations the model is listed as 6000; however, this is not an acceptable model for this report. Officers should attempt to identify an appropriate model (pickups S-10, Sierra, Tundra, Ranger, etc.). If a model name cannot be located, then use an identifier such as "VAN, PK (pickup), SEMI," etc.

#### **10 STYLE OF MOTOR VEHICLE**

**DEFINITION**: The specific type of vehicle being driven based on the chassis attached to it (i.e., truck, van, bus, etc.).

**RATIONALE**: Important for identifying the vehicle for evaluation, research and crash comparison purposes.

#### Some examples of vehicle styles:



**Two-door auto** (use abbreviation 2D) A passenger car equipped with two doors for entrance/exit and a separate trunk area for cargo.



**Four-door auto** (use abbreviation 4D) A passenger car equipped with four doors for entrance/exit and a separate trunk area for cargo.



**Station wagon** (use abbreviation SW) A station wagon is a passenger car with an enlarged cargo area. This auto has one or more rows of folding or removable seats behind the driver. The cargo area in the rear of the auto is not permanently separated from the passenger compartment area.



**SUV** - A full-size, multipurpose vehicle designed to have off-road capabilities. They are generally four-wheel drive and have a longer wheelbase with increased ground clearance. The vehicle includes a combined passenger and cargo area.



**Pickup** (use abbreviation PK) The vehicle has a cab for passengers and an open-top, rear cargo area. Larger and more powerful than a small pickup, they are able to carry larger loads.



**Minivan** (use abbreviation VAN) A small passenger van that is identifiable by an enclosed passenger/cargo area and a relatively short hood. They often have a sliding side door and a rear hatch door.

#### **11 TRAILER PLATE NUMBER**

**DEFINITION**: The trailer or vehicle's plate number that is being towed by the power unit that is not a commercial vehicle (i.e., car pulling a boat trailer or one vehicle towing another vehicle).

**RATIONALE**: Used to identify the towed trailer or vehicle.

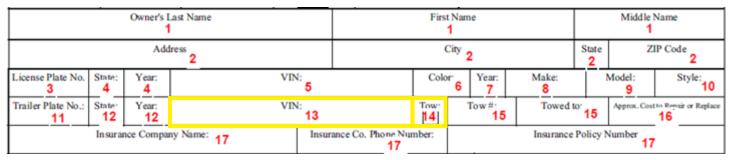
 a. Note that this should not include semitrailers or other vehicles that weight over 10,001 pounds as these would be located in the "Commercial" section.

#### 12 TRAILER PLATE STATE/YEAR

**DEFINITION**: The state, commonwealth, territory, Indian nation, U.S. government, foreign country, etc., issuing the registration plate and the year of registration as indicated on the registration plate displayed on the trailer or towed vehicle. For foreign countries, MMUCC requires only the name of the country.

**RATIONALE**: This element is critical in providing linkage between the crash and motor vehicle registration files to access the motor vehicle identification number.

- a. Enter the state using the two-letter state abbreviations in the "**State**" field as shown on page 88.
- Enter the validation sticker year in the "Year" field as this would be the most recent year of registration.



**13 TRAILER VIN** 

**DEFINITION**: A unique combination of alphanumeric characters assigned to a specific motor vehicle or trailer that is designated by the manufacturer.

**RATIONALE**: Important to identify specific motor vehicle design characteristics and occupant protection systems for effectiveness evaluations.

- a. This is a manufacturer-assigned number that is permanently affixed to the motor vehicle. You should attempt to verify the VIN listed on the registration against the VIN plate on the vehicle itself before entering it on the crash report.
- The VIN plate on most automobiles, pickup trucks, and vans is located on the front left corner of the dashboard and visible through the windshield.
- The VIN plate on most tractor-trailers is located on a plate in the passenger compartment. This plate can readily be seen by opening the driver's door.
- d. The VIN plate on the majority of motorcycles in located on the fork or frame itself, not the number on the engine; most motorcycles have an engine serial number that is different from the VIN.
- e. Be sure to enter the full number in the "VIN" field.
- f. If unable to locate a VIN for the trailer, write "Unknown" in the "VIN" field.

#### **14** TOW

**DEFINITION**: Describes how it was towed away and allows officers the ability to write a tow number and where it was towed to for their records.

**RATIONALE**: Determines whether a commercial vehicle qualifies for submission to the Federal Motor Carrier Safety Administration systems.

a. This field allows the Iowa DOT staff the ability to see if a commercial vehicle meets one of the requirements needed to submit to the FMCSA. There are six selections that can be made and they should match up with the "Extent of Damage" field.

There should not be a vehicle that was listed as code 4 "Disabling damage" or code 5 "Severe, vehicle totaled" in the "Extent of Damage" field being able to have a code 1 "Driven away" in the "Tow" field. The codes are as follows:

Code 1

**Driven away** – the vehicle was able to drive away on its own power even if it had just been pulled out of a ditch. There cannot be a code 4 or 5 in the "**Extent of Damage**" field.

Code 2

**Disabled, privately arranged** – the vehicle is not able to be driven safely from the scene of the crash and the driver or owner is making their own arrangements to have it towed. There cannot be a code 1, 2, or 3 in the **"Extent of Damage"** field.

Code 3

**Disabled, officer arranged** – the vehicle is not able to be driven safely from the scene and the officer is making the arrangements to have it towed. Should not be used because of an arrest and there cannot be a code 1, 2, or 3 in the "**Extent of Damage**" field.

Code 4

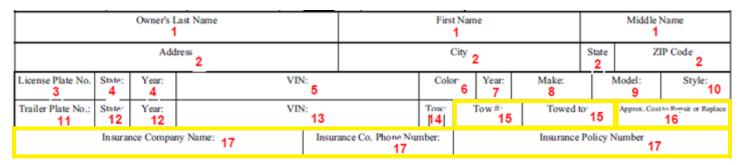
Not disabled, privately arranged – the vehicle can be driven away safely; however, the driver or owner is electing for whatever reason to have it privately towed. There cannot be a code 4 or 5 in the "Extent of Damage" field.

Code 5

Not disabled, officer arranged – the vehicle can be driven away safely; however, the driver or owner is electing for whatever reason to have it towed and the officer is making the arrangements. This will also cover when the officer is having the vehicle towed away because they have arrested the individual or the individual has been transported to the hospital. There cannot be a code 4 or 5 in the "Extent of Damage" field.

Code 6

Abandoned/Left at scene – the vehicle was left at scene usually due to weather issues till the vehicle could be removed safely from the scene. Officer may not have the information about how damaged the vehicle was at the time of the crash because of the severity of the weather.



#### 15 TOW NUMBER/TOWED TO

This is for law enforcement use and may contain the tow number and where it was towed to.

#### **16 COST OF REPAIR OR REPLACE**

**DEFINITION**: This is an estimation of the cost to repair or replace the vehicle.

**RATIONALE**: Used to determine if a crash is reportable or not. It is also used for sanctioning purposes when the party that contributed to the crash does not have insurance and the other parties damages are \$1,500 or more.

Enter an estimate of the approximate cost to repair or replace to the nearest dollar in the "Approx. Cost to Repair or Replace" field. If there is an attachment to a vehicle, this amount should be included with the estimated cost of repair.

#### **17 INSURANCE**

**DEFINITION**: This is the name of the insurance company that is providing coverage on the vehicle, along with the policy and phone number.

**RATIONALE**: The information is used to meet lowa's financial responsibility requirements and the coverage is verified with the insurance company.

- a. "Insurance Company Name" the actual name of the insurance company and not the agent from whom the policy was purchased, some examples are Allied, Allstate, Progressive, etc.
- b. "Insurance Co. Phone Number" the phone number is helpful if we have to contact the company and should be found on the insurance card.
- c. "Insurance Policy Number" used by the insurance company to provide required verification of insurance.



#### MOTOR VEHICLE UNIT CODES SECTION

#### 1 INITIAL TRAVEL DIRECTION

Enter the "Initial Travel Direction" (direction of travel *before* the crash or loss of control occurred) for each vehicle as shown by entering the direction code). Use the following compass direction codes.

Code 01	North	N
Code 02	East	
Code 03	South	W E
Code 04	West	S
Code 99	when there is	nould be used only in cases s no way to determine ravel prior to the crash.)

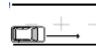
**Warning**: Be sure to enter the initial travel direction and not the driver's *intended* travel direction. For instance, if a vehicle traveling north is struck in an intersection while turning west, the vehicle's *initial* travel direction is north, not west.

#### 2 VEHICLE ACTION

Enter the appropriate code for each vehicle in the "**Veh. Action**" field that describes what each vehicle was doing prior to the crash.

changes.





Movement essentially straight – used when this vehicle's path of travel was straight ahead on the roadway without any attempted or intended

Code 02



**Turn** was char a dif drive

**Turning left** – used when this vehicle was moving forward and turned left, changing lanes from one roadway to a different roadway (e.g., from or to a driveway, parking lot, or intersection).

**Turning right** – used when this vehicle was moving forward and turned right, changing lanes from one roadway to a different roadway (e.g., from or to a driveway, parking lot, or intersection).

#### Code 04



**Making U-turn** – used when this vehicle was making a U-turn on the trafficway.

#### Code 05



Overtaking/Passing – used when this vehicle was traveling straight ahead and was in the process of passing or overtaking another vehicle on the left or right.

#### Code 06



**Changing lanes** – used when this vehicle was traveling straight ahead and changed travel lanes to the right or left while on the same roadway.

#### Code 07



Entering traffic lane (merging) -

used when this vehicle was moving forward and merging from the left or right into a traffic lane (e.g., roadway narrows, entrance ramps).

#### Code 08



**Leaving traffic lane** – used when this vehicle was moving forward and is leaving a traffic lane merging from the left or right into a traffic lane (e.g., roadway narrows, exit ramps).

#### Code 09



**Backing** – used when this vehicle was traveling backwards within the trafficway. Do not use this attribute if the vehicle was backing into a parking space (see code 18 "Entering a parked position").

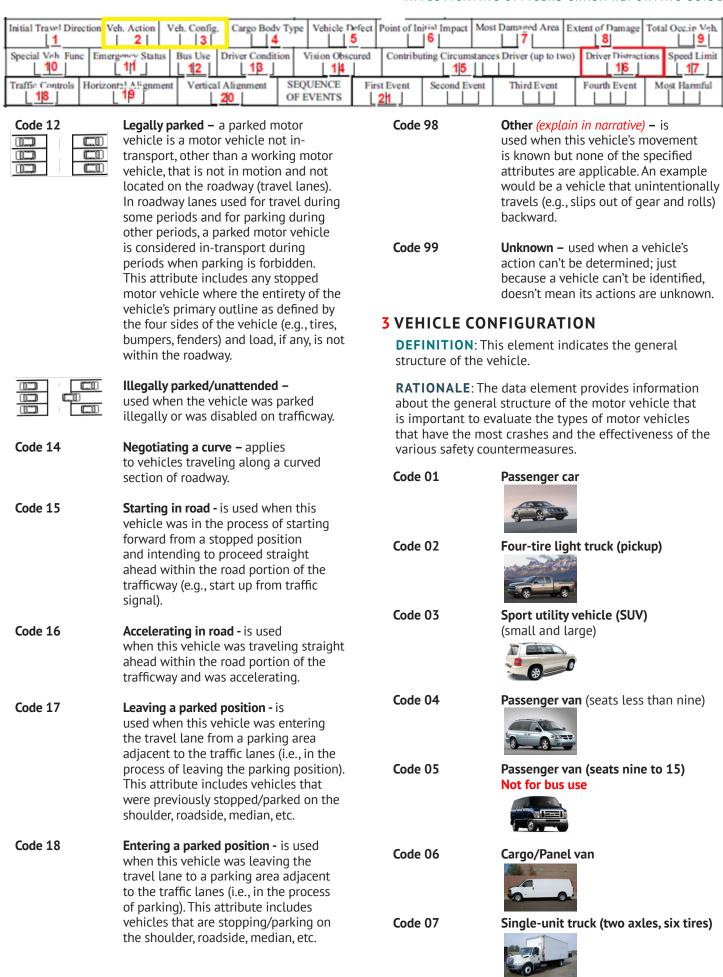
#### Code 10

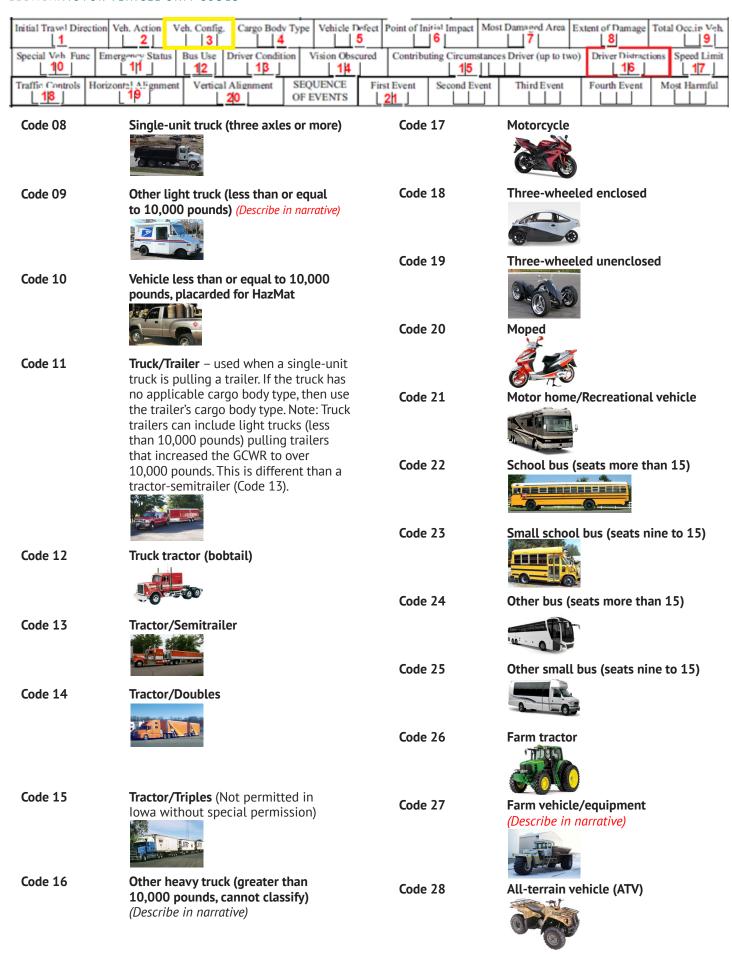


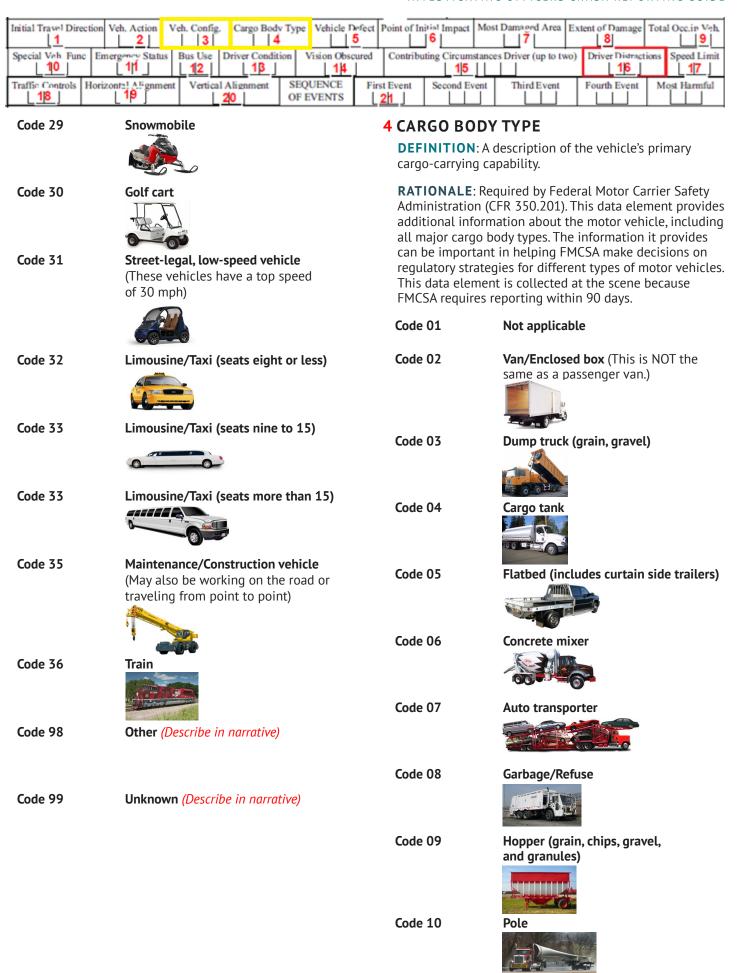
#### Slowing/Stopping (decelerating)

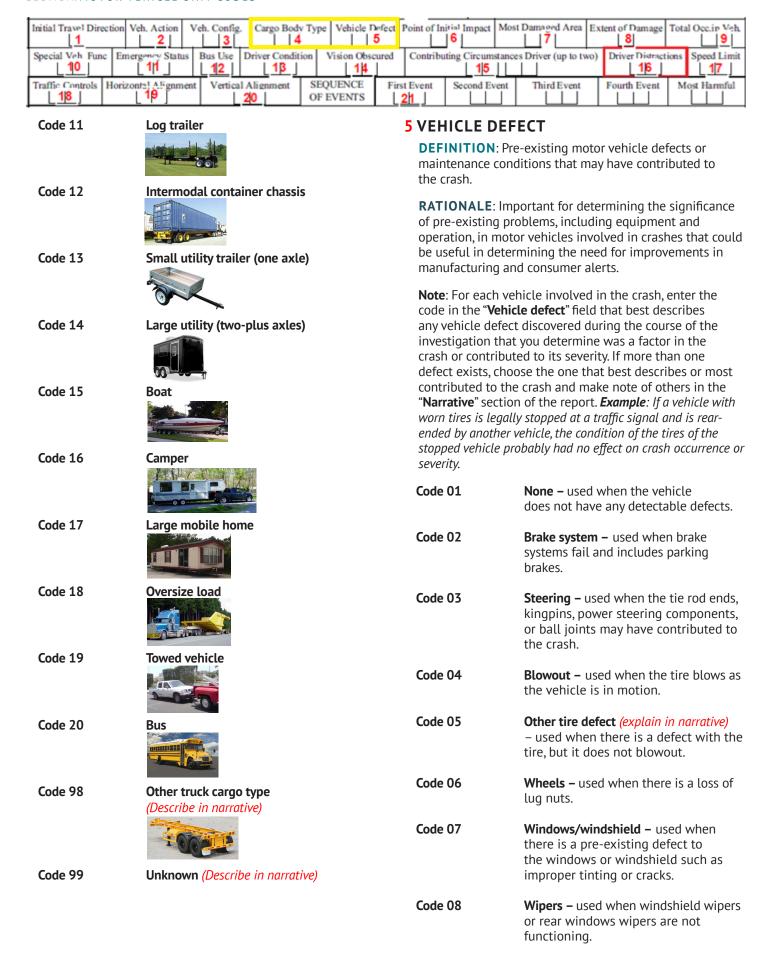
 used when this vehicle was traveling straight ahead within the road portion of the trafficway and was decelerating.

**Stopped in traffic** – used when this vehicle was stopped momentarily, with the motor running within the road portion of the trafficway (e.g., stopped for a traffic signal or waiting for another vehicle to perform a maneuver).











**Code 09**Mirrors – used when there is a pre-existing defect to the mirrors, or they are gone or broken and hanging.

Code 10 Trailer hitch/Truck coupling/Safety chain – used when there is a defective trailer hitch or an improper trailer hitch.

**Code 11 Headlights** – used when one or both headlights are not functioning.

**Code 12 Taillight(s)** – used when one or both taillights are not functioning.

**Turn signal –** used when one of the turn signals are not functioning.

Code 14 Body/door(s) – used when the body or door(s) contributed to the crash, including the trunk, hood, tailgate, rear doors of cargo vans, etc.

Code 15

Power train – used when the vehicles power train components may have contributed to the crash. Examples are universal joints, drive shaft, transmission, engine, differential, and stuck throttles.

Code 16 Suspension – used when the vehicle's suspension components may have contributed to the crash, including springs, shock absorbers, struts, and control arms.

**Code 17 Exhaust** – used when the exhaust systems have failure such as exhaust manifolds, headers, muffler, catalytic converter, tailpipe, etc.

Code 18

Safety systems – used when there is an indication that the air bags failed to deploy, or the air bag deployed inappropriately or when there is seat belt failure such as webbing excessively worn or came unlatched. This does not include improper use of seat belts.

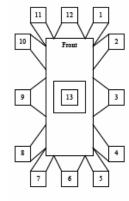
**Code 98 Other –** used when nothing else above fits and should be have an explanation in the narrative.

**Code 99 Unknown –** used when it is unknown.

#### **6 POINT OF INITIAL IMPACT**

Refer to the diagram that represents a vehicle and enter the two-digit number in the "Point of Initial Impact" field that best indicates the point of initial impact where the first damage occurred on the vehicle.

Note: The diagram appears to represent a car. However, it can be adapted for any type of vehicle or combination. Example: If the vehicle is a truck tractor/semitrailer combination and the first damage was close to the rear on the driver's side of the semitrailer, the correct point of initial impact code is 8.



- 14 Undercarriage
- 15 Non-collision/no damage
- 16 Cargo loss
- 98 Other (explain in narrative)
- 99 Unknown

#### **7 MOST DAMAGED AREA**

Enter the most damaged area code for the unit, selected from the diagram, in the "Most Damaged Area" field.

#### **8 EXTENT OF DAMAGE**

Code 1

Enter the appropriate "Extent of Damage" code. The code and descriptions listed below are provided to help make this determination.

Code 2 Minor damage – used when there is light damage ranges from inconspicuous, slight, or superficial damage to conspicuous damage such as cracked glass, body dents, small

None

operate with difficulty.

holes in the body, and doors that

**Code 3** Functional damage – used when there is damage that is not disabling but

affects operation of the road vehicle or its parts. This also includes damage that does not prevent a vehicle from being driven a short distance, although further damage would result if the vehicle were driven more than a mile (i.e., flat tires, leaky radiators, bent axles, and wheels that scrape on the

body or fenders).

I	nitial Travel Direct	tion Veh. Action	Veh. Config.	Cargo Body Ty	ype Vehicle D	Point of Ir	itial Impact	Most Damaged Area	Extent of Damage	Total Occ.in Veh.
5	Special Veh Func	Emergency Status	Bus Use I	Driver Condition	Vision Obsc	ured Contribu	uting Circumst	ances Driver (up to tw	o) Driver Distract	speed Limit
1	Traffic Controls E	Horizonta! Alignme			SEQUENCE OF EVENTS	First Event	Second Eve	nt Third Event	Fourth Event	Most Harmful

Code 4

**Disabling damage** – used when there is damage that precludes departure of the vehicle from the scene of the crash in its usual daylight-operating manner after simple repairs or being pulled from the ditch.

Code 5

**Severe, vehicle totaled** – used when there is severe damage is extensive damage; the vehicle may or may not be repairable.

Code 9

Unknown

**"Extent of Damage"** is one of the methods used to determine whether a commercial motor vehicle (CMV) crash is reportable to the federal government. CMVs with a code 4 or code 5 are expected to be towed unless otherwise explained in the narrative.

#### 9 TOTAL OCCUPANTS IN VEHICLE

**DEFINITION**: The number of occupants that are in each vehicle including the driver. For vehicles that left the scene, use 1 for total occupants of that vehicle.

**RATIONALE**: Important to link occupants back to motor vehicles in which they were riding. Necessary, for example, to evaluate the effect motor vehicle type and specific make/model have on occupant protection effectiveness and injury status.

#### **10 SPECIAL VEHICLE FUNCTION**

**DEFINITION**: The type of special function being served by this vehicle regardless of whether the function is marked on the vehicle.

**RATIONALE**: Important to evaluate the outcome of vehicles used for special uses that are involved in crashes.

Code 01

**No special function –** used when the vehicle is not used for any special function.



Police – used if the vehicle is equipped with police emergency devices (lights and siren) that is owned or subsidized by any local, county, state, or federal government entity. The police vehicle is presumed to be in special use at all times, although not necessarily in "emergency use." Vehicles not owned by a government entity that are used by law enforcement officers (e.g., undercover) are excluded.

#### Code 03



Fire – used when any readily identifiable (lights or markings) vehicles specially designed and equipped to respond to fire, hazmat, medical, and extrication incidents. This attribute includes medium and heavy vehicles such as engines, pumpers, ladder, platform aerial apparatus, heavy rescue vehicles, water tenders or tankers, brush or wilderness firefighting vehicles, etc.

#### Code 04



Ambulance – used when any readily identifiable (lights or markings) vehicles designed to transport sick or injured persons. The ambulance is presumed to be in special use at all times although not necessarily in "emergency use."

#### Code 05



Incident response vehicle – used when government vehicles typically equipped with a variety of tools, including emergency medical equipment; traffic cones and control signs; absorbent material (for responding to spills); and emergency and work lighting. These multipurpose response units are intended to assist law enforcement, fire, and rescue personnel with trafficway incident management.

#### Code 06



Non-transport emergency service vehicle - used when any readily identified (lights and markings) vehicles that do not meet the criteria for ambulance, fire truck, or incident response vehicles and are specifically designed and equipped to respond to fire, hazmat, medical, and extrication incidents. This attribute includes light vehicles such as sedans, van, SUVs, pickups, trucks, motorcycles, etc., and includes vehicles that have been dispatched to an incident or have initiated operation in a nonemergency mode and are not transporting passengers, such as patients or suspects. An example is a fire chief's unit, commonly an SUV.

#### Code 07



**Military** – used when any vehicle owned by any of the Armed Forces regardless of body type, including military police vehicles, military ambulances, military hearses, and military fire vehicles.

Initial Travel Direction Veh. Action V	Veh. Config. Cargo Body	Type Vehicle Defec	Point of Initial Impact	Most Damaged Area	Extent of Damage	Total Occ.in Veh.
Special Veh Func Emergency Status	Bus Use Driver Condition	on Vision Obscured	Contributing Circum	stances Driver (up to tw	o) Driver Distract	ions Speed Limit
Traffic Controls Horizontal Alignment	t Vertical Alignment	SEQUENCE F OF EVENTS	irst Event Second Ev	rent Third Event	Fourth Event	Most Harmful

#### Code 08



**Snowplow** – used when any vehicle is in the act of removing snow. This would exclude those vehicles in transport to or from work site unless they are clearing the public roadway. Also includes pickups with blade that are removing snow at the time of the crash.

#### Code 09



Taxi - used when a vehicle is being used during this trip (at the time of the crash) on a "fee-for-hire" basis to transport persons. Most of these vehicles will be marked and formally registered as taxis; however, vehicles that are used as taxis, even though they are not registered (e.g., Gypsy Cabs) are included here. Passengers do not have to be present at the time of the crash. Taxis and drivers off-duty at the time of the crash are coded as "No special use." If it is unknown whether or not the taxi is on duty, then code the vehicle as a taxi. This attribute also applies for limousines on a "fee-for-hire" basis.

#### Code 10





**School** – used when any motor vehicle has satisfied all the following criteria. Operated, leased, owned, or contracted by a public or private school-type institution and where the institution's students may range from pre-school through high school and the occupants are associated with the institution. At the time of the crash the vehicle is being used for transportation to and from a school or on a school sponsored activity or trip. This attribute also includes vehicles that are not externally identifiable as a school/pupil transport vehicle but do meet all of the other criteria above. For example: A transit bus, at the time of the crash, used exclusively (no other passengers except for students) to transport students to/from school or schoolrelated activity.

Code 98 Other (explain in narrative) – used when there is some special use that may not be listed – include what that special use in this field.

Code 99 Unknown – used when it is unknown if the vehicle was being used for special use.

#### **11 EMERGENCY STATUS**

**DEFINITION**: Indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck, or ambulance while actually engaged in such response.

**RATIONALE**: Driver behavior related to emergency vehicle response is an emerging national issue. This is true for both operators of emergency vehicles and operators of vehicles in the vicinity of an emergency vehicle engaged in a response. It is the intent of this element to gather information that will guide development of training or other countermeasures to reduce the number of crashes involving emergency vehicle response.

Emergency status also refers to an official motor vehicle that is usually traveling with emergency signals in use typically red-light blinking, siren sounding, etc. If the vehicle is a special function vehicle such a military, police, ambulance, fire truck, or emergency service vehicle, then determine if the vehicle was on an emergency response at the time of the crash.

**Code 01 Not applicable –** used when this motor vehicle is not on an emergency response.

**Yes, warning equipment used –** used when this motor vehicle was in an emergency response and it was using warning equipment at the time of the crash.

**Yes, warning equipment not used**-used when this motor vehicle was in an emergency response and it was not using warning equipment as the time of the crash.

Code 04 No, nonemergency, non-transportused when this motor vehicle was not in an emergency response and was not transporting anyone.

**Code 05 No, nonemergency transport –** used when this motor vehicle **was not** in an emergency response, but it was transporting someone.

Code 99 Unknown

Initial Travel Direction Veh. Action	Veh. Config. Cargo Body	Type Vehicle D	Point of In	6   Mos	st Damaged Area E	xtent of Damage	Total Occ.in Veh.
Special Veh Func Emergency Status	Bus Use Driver Conditi	ion Vision Obsci	ured Contribu	ting Circumstanc	es Driver (up to two)	Driver Distract	ions Speed Limit
Traffic Controls Horizontal Alignment 18   Horizontal Alignment	nt Vertical Alignment	SEQUENCE OF EVENTS	First Event	Second Event	Third Event	Fourth Event	Most Harmful

#### 12 BUS USE

**DEFINITION**: This data element describes the common type of bus service this vehicle was being used for at the time of the crash or the primary use for the bus if not in service at the time of the crash.

RATIONALE: Important in determining where and how school children are at the greatest risk of injury when being transported by a school bus and the extent to which school bus operations. This is used to help identify how the bus is used when reporting to Federal Motor Carrier Safety Administration and affects overall traffic safety. It also aids in correctly identifying to the FMCSA how the bus was being used at the time of the crash.

Buses are any motor vehicle with seats to transport nine or more people, including the driver's seat. This element does not include vans that are owned and operated for personal use.

**Note**: If the vehicle does not fall into the category for bus leave this element blank.

#### Code 01

School (public or private) - used when vehicles that meet the definition of a bus and are being used by a public or private school, district, or contracted carrier operation on behalf of the entity, providing transport for school children (up to the 12th grade) to/from school (public or private) or any other school function or activity. In addition, school includes buses that are not externally identifiable as a school/ pupil transport vehicle. Example: A transit bus, at the time of the crash, used exclusively (no other passengers except students) to transport students to/from the school or school-related activity.

#### Code 02

**Transit/Commuter** – used when a government entity or private company that provides passenger transportation over fixed, scheduled routes within primarily urban geographical areas, for example innercity mass transit bus/van service.

#### Code 03

Intercity – used when a company provides for-hire, long-distance passenger transportation between cities over fixed routes with regular schedules. Example: Greyhound bus service between major cities.

#### Code 04

**Charter/Tour** – used when a company provides transportation on a for-hire basis and demand-response basis, usually round trip service for a tour group or outing.

#### Code 05

Shuttle – used when private companies provide transportation services for their own employees, nongovernmental organizations (such as churches and nonprofit groups), and noneducational units of government (such as departments of corrections). Examples include buses/nine-passenger vans transporting people from airports, hotels, rental car companies, and business facility to facility.

#### Code 06

Modified for personal/private use— used when an individual has modified a bus for personal use such as traveling with their family.

#### Code 07

**Church** – used when the bus is being used to transport people to/from church and church related functions.

#### Code 98

**Other** – used when it is a bus that does not fit any of the criteria listed above, explain in the narrative.

Code 99

**Unknown** – used when it is unknown such as a hit and run situation.

#### 13 DRIVER CONDITION

**DEFINITION**: This element identifies physical impairments to this driver that may have contributed to the cause of the crash as identified by law enforcement.

**RATIONALE**: Important for evaluating the effect that fatigue, medications/alcohol/drugs, or other conditions have on the crash. Depending on the condition used a review of driving privileges may be made for young drivers or those who contributed.

#### Code 01

**Apparently normal** – used when there is no indication of impairment exists.

#### Code 02

Emotional (e.g., depressed, angry) - used when the person is arguing with someone, is having a disagreement, is depressed and/or is emotionally upset.



Code 03

Asleep, fatigued – used when indicated that a person was drowsy or sleepy. Alcohol or other drugs may be the source of this impairment.

Code 04 Illness/Fainted – used when indicated even if the source of the illness or loss of consciousness is alcohol or drug related.

Code 05 Medical condition (seizure, reaction)

– used when it has been determined

that a driver has had/or having a seizure or a reaction to a medical condition such as a diabetic episode.

Code 06 Under the influence of alcohol -

used when the investigating officer indicates that the individual was under the influence of alcohol. When this code is used and there is no test given, it is helpful if this information is put into the narrative to explain why no test was given. If under the legal limit, you should still put the test in the "Alcohol" section if you suspect that it played a factor. This helps to review certain operating while intoxicated (OWI) laws.

Code 07 Under the influence of drugs/meds

 used when there is an indication that the individual is under drugs or having a reaction to medication. It is helpful to put as much information in the narrative about the observation that caused the usage of this code.

**Code 08 Physical impairment** – used when a physical impairment is present that may have contributed to the crash.

Code 09 Walks with cane/crutches – used
when the driver is currently restricted
to the use of cane/crutches not related
to the crash and the officer feels this

may have contributed to the crash.

Code 10 Paraplegic/Wheelchair restricted –

used when this person has to use a wheelchair or is paraplegic and the officer feels this may have contributed to the crash.

Code 11 Impaired due to previous injury –

used when the person who is involved in this crash was previously involved in another crash that was subsequent to current incident. This will be a rare occurrence.

Code 12 Hearing impaired/deaf – used if the

driver is hearing impaired or deaf and the officer feels this may have contributed to the crash (i.e., failure to hear siren of emergency vehicle).

**Code 13 Visually impaired –** used when the

driver is visually impaired, and the officer feels this may have contributed

to the crash.

**Code 98 Other** *(explain in narrative)* – used

when none of the above fit, explain in

the "Narrative" section.

**Code 99 Unknown –** used if hit and run drivers.

#### **14 VISION OBSCURED**

**DEFINITION**: This data element records impediments to a driver's visual field.

**RATIONALE**: Used to determine if there is something of the roadway that needs to be corrected or what other factors may have contributed to the crash.

Code 01 Not obscured – used when there is no

indication of a visual obstruction for

the driver.

**Code 02** Trees/Crops – used when any of these

natural features are noted to have obstructed the view of the driver.

**Code 03 Embankment** – used when this feature

is noted to have obstructed the view of driver and will include a raised embankment or a sag in the roadway.

**Code 04 Hillcrest** – used when a hill feature is

noted to have obstructed the view of

driver.

**Code 05 Building(s)** – used when a man-made

structure is noted to have obstructed the view of the driver and includes houses, sheds, barns, or storage

structures.

SECTION: MOTOR V	/EHICLE UNIT CODES		
Initial Travel Direction	<u> </u>	5 6	t Damaged Area Extent of Damage Total Occ.ip Veh.
Special Veh. Func Em	ergency Status Bus Use Driver Condition Vision Obsc	ured   Contributing Circumstance	es Driver (up to two) Driver Distractions Speed Limit
Traffic Controls Horiz		First Event Second Event	Third Event Fourth Event Most Harmful
Code 06	<b>Sign/Billboard</b> – used when a manmade structure is noted to have obstructed the view of the driver and includes traffic signs, poles, signals, etc.	Code 15	Fog/Smoke/Dust – used when one or more of these conditions exist and are noted to have obstructed the view of the driver. Do not use this attribute when only the vehicle windshield is
Code 07	Parked vehicles – used when a vehicle that is parked in a designated parking area or space, stopped in an area off the roadway or is a working motor vehicle		described as fogged as this would fall under code 12 "Frosted windows/ windshield."
	is noted to have obstructed the view of the driver. The vehicle may be but does not have to a contact vehicle but did contribute to the crash.	Code 16	Splash/Spray of passing vehicle – used when this condition is noted to have obstructed the view of the driver.  The splash or spray can come from water or mud; however, the use of
Code 08	Moving vehicles – used when a vehicle that is in motion or stopped on the roadway is noted to have obstructed the view of the driver. The vehicle may	Code 17	this attribute does not require it to be raining at the time of the crash.  Inadequate vehicle lighting – used
	be but does not have to be a contact vehicle but did contribute to the crash.	Code 17	when the driver's vision was impaired because the exterior lighting system (including headlights, fog lights, etc.)
Code 09	<b>Person/Object in or on vehicle</b> – used when a person or object inside the vehicle or on the vehicle obstructs the view of the driver.		of the driver's vehicle was deficient in some way. This would include being turned off or not operating properly. This response should not be used to describe inadequate lighting systems
Code 10	<b>Blinded by sun or headlights</b> – used when the glare from the sun or headlights obstructed the view of the driver.		of other vehicles (e.g., oncoming motor vehicles) or for inadequate highway lighting.
Code 11	<b>Broken/Dirty windshield</b> – used when the windshield is either broken or dirty and obstructs the view of the driver.	Code 18	Exterior angle/blind spot on vehicle  – used when the size of shape of a driver's own vehicle created a visual obstruction, including trailer, vehicle height, and blind spot. Not to be
Code 12	<b>Frosted windows/windshield –</b> used when the windows or windshield is frosted over and obstructs the view of the driver.		confused with visual obstructions from other vehicles or a vehicle's interior components such as head restraints, sunshades, etc.
Code 13	External mirrors – used when an exterior mirror on this driver's vehicle created a visual obstruction do to its size or placement.	Code 98	Other (explain in narrative) – used when none of the above fit and should be explained in the narrative.
Code 14	Blowing snow – used when the blowing of snow is a factor in the obstruction	Code 99	<b>Unknown</b> – used when the vehicle is a hit and run.

of snow is a factor in the obstruction

of the driver's view.



#### 15 CONTRIBUTING CIRCUMSTANCES DRIVER

**DEFINITION**: The actions by the driver that may have contributed to the crash. This data element is based on the judgment of the law enforcement officer investigating the crash and need not match violation codes.

**RATIONALE**: Important for evaluating the effect that dangerous driver behavior has on crashes. You can use up to two contributing circumstances for the driver you feel best fit the situation you are investigating. Contributing circumstance information is used to review an individual for unsafe driving practices and may cause either a re-exam or some type of sanction action.

**Code 01** Ran traffic signal – used when the driver did not stop at a traffic signal when it was red.

**Code 02 Ran stop sign –** used when the driver did not stop at a "stop" traffic sign.

Code 03 Exceeded authorized speed – used when the driver was going over the posted speed limit.

Code 04 Driving less than the posted speed limit – used when the driver is driving too slow which impedes traffic.

Code 05

Driving too fast for conditions —
used when the driver is driving too
fast for conditions on the road that
would cause a failure to have control.
Examples would be icy conditions, oil
slicks, or work zones areas in which
the driver is not able to slow rapidly or

**Lost control –** used when the driver is unable to maintain control of the vehicle for any reason.

keep control of vehicle if necessary.

Following too close – used when the driver has not allowed enough space between his vehicle and the vehicle in front of him so that they are able to stop quickly. Also is used if they are following a fire truck too closely, failure to maintain safe passing distance between trucks, or following vehicles in caravan too closely to allow entry.

Code 08 Operating vehicle in a reckless/ erratic/careless/negligent manner-

> used when the driver is driving in such a manner that endangers others or has a wanton disregard for the safety of other vehicles or non-motorists on the roadway. This could be used for those cases in which you know that the vehicles have been drag racing.

Code 09 Improper or erratic lane changing – used when the driver is making unsafe lane changes.

Code 10 Aggressive driving/road rage – used when there is evidence to support that the driver exhibited road rage or is acting in an unsafe manner such as acceleration followed by sudden braking.

Code 11 Made improper turn – used when the driver was making a right turn from left-turn lane; left turn from right-turn lane; or is making a too wide right or left turn or making a unsafe U-turn (from shoulder, etc.).

Code 12

Failed to yield to emergency vehicle

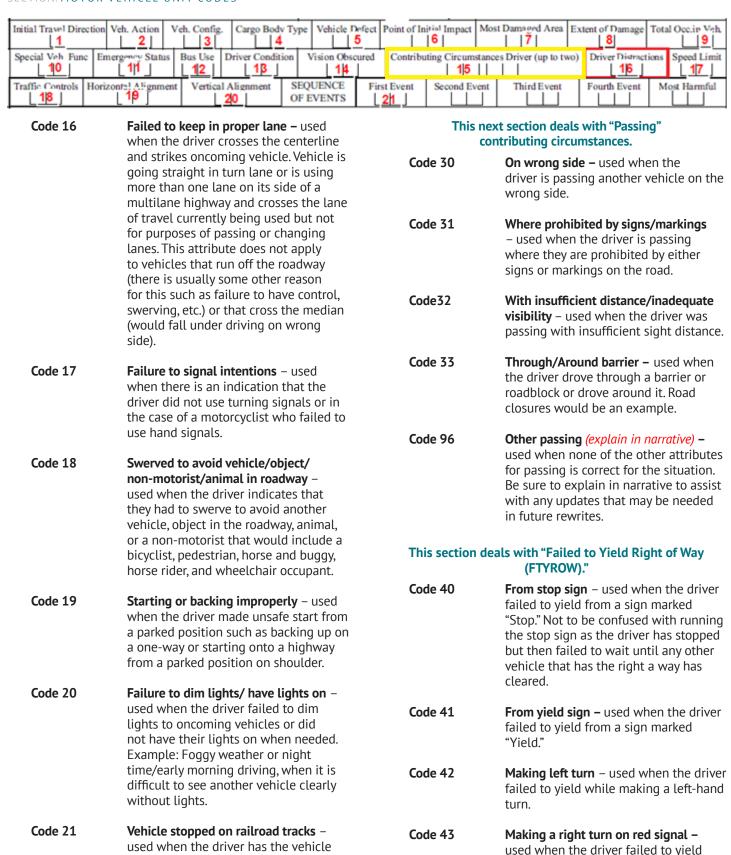
- used when the driver fails to yield to
an emergency vehicle that has lights
and sirens engaged or to a stopped
school bus or other emergency vehicle
that requires the driver to stop.

Code 13 Traveling wrong way/on wrong side – used when the driver is driving the wrong way on a one-way street or is driving on the wrong side of the roadway either intentional or unintentional.

Code 14 Traveling on prohibited trafficway – used when vehicles are using a trafficway they are prohibited from using. Example: A moped on the interstate or trucks using a roadway that is prohibited to them.

Code 15

Over-correcting/Over-steering used when the officer has reason to
believe the driver was over-correcting
or over-steering and the action
contributed to the crash.



while making a right turn while the

driver fails to yield while turning onto

a roadway from a driveway (includes business driveway and parking lots, as

From driveway – used when the

well as residential driveways).

signal light is red.

Code 44

Code 22

stopped on railroad tracks either

Vehicle drove around grade crossing

gates – used when the driver drives

intentionally or unintentionally.

around the crossing gate.



in ditch, on sidewalk, or on median).



#### 16 DRIVER DISTRACTIONS

**DEFINITION**: This element identifies the attribute that best describes this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity and can be inside the motor vehicle (internal) or outside the motor vehicle (exterior). Also, driving while daydreaming or lost in thought is identified as distracted driving by the National Highway Traffic Safety Administration. Physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA, but are located in the "**Driver Condition**" section.

**RATIONALE**: Important to identify specific driver behavior during a crash and understand and mitigate the effects of distracting activities.

**Note**: Record the attribute that best describes this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur.

When coding this element, witness statements, including those from vehicle passengers or pedestrians, may be used to provide information to the officer and should be included in the "Narrative" section of the report. If you have written statements provided by these sources, they can also be attached.

Because of the nature of the rise in crashes stemming from driver distractions this is a required field that needs to be completed to aid in preventive tactics.

Code 01	Not applicable/No driver - used when
	there is no driver present in the vehicle
	because it is parked or left unattended
	for any reason.

**Code 02 Not distracted** – used when the driver was completely attentive to driving.

#### This section deals with distractions using electronic devices.

Code 03 Manual operation of an electronic communication device (texting, typing, dialing) – used when the driver was texting, typing, or dialing on any electronic device.

**Code 04 Talking on hand-held device** – used when the driver was talking on a cell phone or any other hand-held device.

Code 05

Talking on hands-free device – used when the driver was talking on a device that is not held in the hand but may be attached to the vehicle as a source of power or is located in the ear.

Code 06 Adjusting devices (radio, climate) used when someone is distracted from the driving task while adjusting the air conditioner, heater, radio, cassette, using the radio, using the cassette, CD or any other music-related devise that are mounted in the vehicle, global positioning system, or adjusting any other device that is located inside of the vehicle. Also is used when there is an adjustment to door locks, adjusting sideview mirrors, speed controls, or seat. It is helpful to know what exactly the distraction was in the narrative (i.e., driver was adjusting radio).

Code 96 Other activity with electronic device (explain in narrative) – used when any activity that is not covered with the above attributes. Please explain in narrative to aid in any upgrades needed to the codes in the future.

Initial Travel Dire	vetion Veh. Action	Veh. Config.	Cargo Body Ty	pe Vehicle D	efect Po	int of Initial In	npact Mos	t Damaged Area	Extent of Damage	Total Occ.ip Veh.
Special Veh. Fun	Emergency Status	Bus Use D	river Condition	Vision Obsc	ured	Contributing C	ircumstance	es Driver (up to tw	Driver Distract	ions Speed Limit
Traffic Controls	Horizonta! Alignme	t Vertical A		EQUENCE OF EVENTS	First E		ond Event	Third Event	Fourth Event	Most Harmful

#### This section is related to other distractions inside the vehicle.

#### Code 10

**Passenger** – used when the driver was distracted by another occupant in this driver's vehicle prior to crash. Example: Conversing with or looking at another occupant (e.g., baby/child in back seat, rowdy teenager, argumentative spouse, etc.).

#### Code 11

**Unrestrained animal** – used when the driver is distracted by an animal that is unrestrained inside of the vehicle. Example: Holding animal on lap; animal running beneath driver's feet; animal moving between windows in the front or back portion of the vehicle.

#### Code 12

Eating or drinking related – used when the driver is eating or drinking or involved in an activity related to these actions (e.g., picking food from carton placed on passenger seat, reaching to throw out used food wrapper, etc.).

#### Code 13

**Smoking related** – used when the driver is smoking or involved in an activity related to smoking, such as lighting his cigarette, putting his ashes in the ash tray, etc.

#### Code 14

Reaching for object(s)/fallen objects – used when the driver is reaching for an object that is located on the seat next to them or in the back of the front seat(s) or is reaching for an object that has fallen. A cigarette that has fallen would be used here instead of smoking related.

#### Code 15

**Inattentive/lost in thought** – used when the driver is not completely attentive to driving because they are thinking about items other than the driving tasks.

#### Code 16

Looked but did not see – used when the driver is paying attention to driving (not distracted), but does not see the relevant vehicle, object, etc. This attribute should be used when a driver has an opportunity to take some action prior to impact, but the driver takes no action and no distractions apply. This situation frequently occurs when an overtaking vehicle is in the driver's "blind spot" or at intersections when a crossing vehicle is not noticed. If the driver sees the vehicle, object, etc., but does not consider it a danger, and no distractions apply then the "Not Distracted" would be used.

#### Code 97

Other distraction inside vehicle (explain in narrative) – used if you know there was a distraction, but it does not fit in any of the above categories. Please explain in the narrative to aid in any upgrades to the codes needed in the future.

#### Code 98

**Distraction outside vehicle** (explain in narrative) – used when the driver was distracted by an outside person, object, or event prior to realization of impending danger. **Example**: Animals on the roadside; a previous crash or nontraffic-related signs (e.g., advertisements, electronic billboards, etc.).

#### Code 99

**Unknown** – used when the driver is unknown.

#### **17 SPEED LIMIT**

**DEFINITION**: This is the posted speed limit and speed limits are in 5 mph increments. Refer to the highway speed limit that is operational at the time and place of the crash whether physically displayed or not.

**RATIONALE**: This element identifies the value indicated that best represents the speed limit just prior to this vehicle's critical pre-crash event.

**Note**: Try not to confuse advisory signs (black on yellow) on entrance/exit ramps or near intersections with the actual legal maximum speed limit (regulatory – black on white). Disregard advisory or other speed signs because they do not indicate the legal speed limit.

Advisory sign



Advisory sign



Regulatory sign



When coding "**Speed Limit**" for roadways with two different speed limits, use the speed limit for the direction of travel where the critical pre-crash event **begins**.



#### 18 TRAFFIC CONTROLS

**DEFINITION**: The type of traffic control device (TCD) applicable to this motor vehicle at the crash location.

**RATIONALE**: This element needs to be collected at the scene because the presence of specific devices is better verified at the time of the crash. It is also important for determining the relationship between the use of TCDs and crashes and identifying the need for upgraded TCDs at specific crash locations.

Note: The roadway used for coding this element is the one this vehicle departed if it is off the roadway just prior to its critical pre-crash event. If this vehicle is in a junction just prior the crash, then this element is coded based on the roadway this vehicle was on before entering the junction. Code this element whether the device was functioning or not. If more than one device is present, use the one that is more relevant in the crash. Example: There is a stop sign but a law enforcement officer is directing traffic, it is more relevant to use the code 10 "Traffic director."

If a traffic control is out due to a power failure and has a temporary control, the control that is temporarily being used should be recorded.

Guide signs do not constitute traffic controls and pavement markings are not considered as traffic control devices.

You may have a regulatory speed limit sign along with another traffic control device. Example: A warning sign for a dangerous condition in which the warning sign is more relevant and should be used.

Another set of questions arises from the issue of proximity of the device to the crash. Judgment must be applied in these situations. Typical signs that create such problems are "Do Not Pass" signs where a no passing zone extends for miles but is only marked at the beginning of the zone and other such signs that may pertain to a significant length of road. In these instances, if the crash occurs within reasonably close proximity of the sign and the sign type is relevant to the crash, it may be appropriate to code the sign.

Code 01

No controls present – used when at the time of the crash, there was no intent to control (regulate or warn) vehicle traffic. Use this attribute if statutory controls apply (e.g., state law requires that when two vehicles meet at an uncontrolled intersection, the one on the right has the right-ofway). Also used when a traffic control is deactivated (e.g., traffic signal that emits no signals) during certain times of the day and was deactivated at the time of the crash. A traffic control that has just been installed and not yet activated is also coded as no control.

Code 02



**Traffic signal** – used when there is any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed utilizing the colors of red, yellow, and green.

Code 03



Flashing traffic control signal – used when there is a single colored head and flashes. This attribute should be used if it is a highway traffic signal that is flashing or includes a flashing red beacon that appears with a stop sign.

Code 04



**Stop sign** – used when there is a traffic sign used to control vehicular traffic, usually erected at road junctions, that instructs drivers to stop and then to proceed only if the way ahead is clear.

Code 05



**Yield sign** – used when there is a yield sign, which indicates a vehicle driver must slow down and prepare to stop if necessary usually while merging into traffic on another road but needn't stop if the way is clear.

Code 06



No passing zone (marked) – used when there is a regulatory sign, which informs highway users of traffic laws or regulations and indicate the applicability of legal requirements that would not otherwise be apparent. In this case, passing is not allowed due to visibility or other dangerous issues with the road.



### Code 07



Warning sign - used when there is a sign warning traffic of existing or potentially hazardous conditions on or adjacent to a highway or street.

### Code 08 **SCHOOL SPEED** LIMIT WHEN FLASHING

**School zone sign –** used when there is a sign informing traffic users of a school in the area and that drivers should be watching for pedestrian traffic. If the sign was in effect at the time the crash occurred, it doesn't matter whether or not children were present. If the sign is flashing, use this attribute rather than "flashing traffic control signal."

#### Code 09



Railway crossing device - used when \ there is a crossing device to alert the driver of a train approaching. If the crossing has a flashing light, use this attribute instead of the flashing light. Other forms of warning may be wigwags, bells, and crossbucks.

#### Code 10



**Traffic director (person) –** used when a person (e.g., police officer, crossing guard, flagman, or officially designated person) is in the act of controlling both vehicular and pedestrian traffic.

Code 11



Work zone sign – used when there is a work zone present and used to warn vehicular traffic of a lane shift, uneven surface, worker ahead, etc.

#### Code 12

Inoperative (not functioning properly) - used when the devise was not

operating properly and there was no other traffic device present.

Code 13

**Traffic sign missing –** used when the devise is missing completely.

Code 98

Other - used for any other device that functions as a traffic control device not listed as an attribute listed above. Example: Barricades, cones, drums, and object markers. Note this in the narrative.

Code 99

**Unknown** – used when the information is unknown. An example is that a driver is reporting they hit a deer and there is no investigation into the site.

#### 19 HORIZONTAL ROADWAY ALIGNMENT

**DEFINITION**: The geometric or layout and inclination characteristics of the roadway in the direction of travel for this vehicle.

**RATIONALE**: Important to document the horizontal alignment and grade of the roadway as it relates to this specific vehicle involved in the crash for the purpose of evaluating vehicles that run-off-road, rollover, or are runaways.

**Note**: For vehicles departing the trafficway prior to their crash, the trafficway selected for classification is the one the vehicle departed.

Enter the description of the "Horizontal Alignment."

Code 01

**Straight** – used when the roadway

is straight.

Code 02

**Traversing curve to left –** used when this vehicle's roadway is curved to

the left.

Code 03

Traversing curve to right – used

when this vehicle's roadway is curved to the right.

Code 98

Other (explain in narrative) - used when it is a non-trafficway area for

example this vehicle is entering a trafficway but was not on a trafficway

prior to the crash.

Code 99

**Unknow**n – used when it is unknown, usually in the case of no investigating officer present at the site but crash is being reported for insurance purposes.

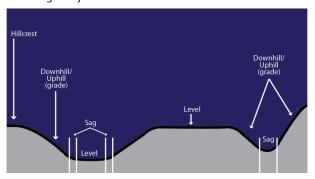


#### 20 VERTICAL ATTRIBUTES/ ROADWAY GRADE

**DEFINITION**: The geometric or layout and inclination characteristics of the roadway in the direction of travel for this vehicle.

**RATIONALE**: Important to document the horizontal alignment and grade of the roadway as it relates to this specific vehicle involved in the crash for the purpose of evaluating vehicles that run-off-road, rollover, or are runaways.

**Note**: For vehicles departing the trafficway prior to their crash, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical pre-crash event, the roadway selected for classification is the one it is on before entering the junction.



Code 01	<b>Level –</b> used when the roadway
	is level.

Code 02	At crest – used when at top of hill
	before descending or when you are
	done ascending.

Code 03	Traversing uphill - used wher				
	traveling uphill.				

Code 04	Traversing downhill - used when				
	traveling downhill.				

Code 05	At sag (bottom of hill) - used when
	the transitioning between a change of
	grade at the bottom of a hill. It is not a
	dip, which is a flaw.

Code 98	Other (explain in narrative) - used			
	when none of the above attributes			
	apply example may be a dip, which is			
	a flaw in the road due to erosion			

**Code 99 Unknown –** used when officer has not completed an investigation into the crash.

#### 21 SEQUENCE OF EVENTS/ MOST HARMFUL EVENT

**DEFINITION**: The events in sequence related to **this** motor vehicle, from **this** motor vehicle's perspective, including both collision and non-collision events.

**RATIONALE**: Important for use in conjunction with most harmful event and motor vehicle maneuver to generate complete information about the crash.

The crash events table records in chronological sequence, the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash. The "crash" is concluded in time when all events that originate from the unstablized situation are stabilized. The crash events table is designed to provide a coded description of all qualifying events that occurred in the crash.

With this coded chronological sequence of qualified crash events, traffic safety analysts can review the entire series of events involving in-transport motor vehicles. Various areas of concern to the highway safety community can be easily assessed using this data. For instance, the injury severity in crashes can be assessed relative to the number and type of impacts involved. Likewise, certain collision configurations that may create a greater hazardous condition for the occupants can be identified. Other possible areas of analysis would be the mix of vehicles sizes or the types of objects the different classes of vehicles impact.

To complete the "Sequence of Events" section, each event for each vehicle is recorded in the order in which they occur, timewise, based on the description of the crash from the crash report narrative, diagram, or other relevant case materials. "Sequence of Events" includes both harmful and nonharmful events that occur in the crash. Recording of the events ends at the last harmful event of the entire crash. Therefore, a nonharmful or precrash events (e.g., crossing the centerline) that occurs following the last harmful event of the crash will not be included.

For each vehicle involved in the crash, enter the number codes that best describe the events in sequence relating to the crash, including both non-collisions as well as collision events. Space is provided to record up to four events in sequence. While it may not be necessary to enter four events in every crash, investigators should enter as many events as possible that pertain to each crash. Some crashes may have more than four events. In this case, investigators should record the first four significant events in sequence in the fields: "First Event," "Second Event," "Third Event," and "Fourth Event." Additional events may be documented in the "Narrative" section of the report.

Initial Travel Direction Veh. Action	Veh. Config. Cargo Body	Type Vehicle Defect	Point of Initial Impact   M	Most Damaged Area Ex	xtent of Damage	Total Occ.in Veh.
Special Veh Func Emergency Status	Bus Use Driver Conditio	vision Obscured	Contributing Circumsta	ances Driver (up to two)	Driver Distracti	ons Speed Limit
Traffic Controls Horizontal Alignmen		SEQUENCE F OF EVENTS	rst Event Second Ever	nt Third Event	Fourth Event	Most Harmful

Additionally, investigators should enter the code number that best describes the "Most Harmful Event" related to the crash. The "Most Harmful Event" can be defined as the event that results in the most severe injury or, if no injury, the greatest property damage involving this vehicle. In most cases, the "Most Harmful Event" will be one of your selections in the "Sequence of Events" section, so the same code would be listed in two boxes.

A. PRE-CRASH EVENTS: These events, except "8 – Cargo/Equipment loss or shift," cannot be listed as the "Most Harmful" or "First Harmful Events" because they did not cause the damage but are a prelude to the crash. Example: Running off the road to the right does not cause damage; it is the hitting of some object or person that is the collision event or damage from a non-collision event such as overturning.

#### All codes in red are a Harmful Event.

- Code 01 Ran off road, right (see Appendix I on page 110 for examples) used when the vehicle leaves the traveled portion of the roadway on the right side of the road.
- Code 02 Ran off road, straight used when the vehicle leaves the traveled portion of the roadway straight ahead, would usually be an intersection that is not a four-way.
- Code 03 Ran off road, left used when the vehicle leaves the traveled portion of the roadway on the left side of the road.
- Code 04 Cross centerline (undivided) used when the vehicle crossed a centerline that is in on an undivided roadway.
- Code 05 Crossed median (divided) used when a vehicle completely crosses the median (raised or grassy) and enters the shoulder or travel lanes on the opposite side of a divided highway.
- Code 06 Evasive action (swerve, panic braking, avoidance) used when a vehicle uses some sort of evasive action that causes them to go into another travel portion or leave the roadway.
- Code 07 Downhill runaway used when a vehicle that was not intending to move rolls downhill. Example: A parked vehicle with no driver comes out of

gear and rolls downhill or a vehicle that is jacked up and being worked on and it slips off the jack and rolls down the hill.

- Code 08 Cargo/Equipment loss or shift used when there is a loss or shift of items carried on or in a motor vehicle or its trailing unit.
- Code 09 Equipment failure (tires, brakes, etc.) –
  used when equipment failure of some
  type causes the vehicle to lose control.
  The type of equipment failure should
  be placed under "Vehicle Defect."
- Code 10 Towed portion came apart (separation of unit) used when a trailing unit separates from its power unit or another trailing unit.
- Code 11 Loss of traction used when either weather or some other element is present that causes a vehicle to lose traction with the pavement. This could also be an intentional act by the driver (i.e., wheelie or bouncing cars).
- Code 12 Trailer fishtailing or swaying used when the pulled unit does not come apart but it sways or fishtails causing the vehicle's driver to lose control. This could be weather related and then should have a "Weather Condition" code to reflect the condition that would cause the trailer to sway.
- Code 13 Animal (avoided hitting) used when the animal was not hit but by their presence caused the driver to lose control.
- Code 94 Other pre-crash (explain in narrative)

   used when none of the above attribute will work and explain in narrative for any future updates.

#### **B. NON-COLLISION EVENTS**

Code 20

Overturn/Rollover – used when a motor vehicle rotates (rollover) at least one-quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code this as a rollover/overturn and a harmful event if damage or injury is produced, even though the data

Initial Travel Direction Veh. Action V	eh. Config. Cargo Body Ty	ype Vehicle Defect   5	Point of Initial Impact	Most Damaged Area Ex	xtent of Damage To	otal Occ.ip Veh.
Special Veh Func Emergency Status	Bus Use Driver Condition	Vision Obscured	Contributing Circums	tances Driver (up to two)	Driver Distraction	Speed Limit
Traffic Controls Horizontal Alignment			t Event Second Ev	ent Third Event	Fourth Event	Most Harmful

element rollover is not applicable to motorcycles. Ground is not to be entered in conjunction with this element.

#### Code 21 **Jackknife** – used when there is a condition that occurs to an articulated vehicle, any vehicle with a trailing unit(s) connected by a hitch (e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle's driver in which the trailer(s) yaw(s) from its normal straight-line path behind the power unit, striking the power unit, and causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its

Code 22 Non-contact vehicle (phantom) – when the driver avoids contact with another vehicle that is reported as a non-contact or phantom vehicle. This includes a moving, parked, or working vehicle

occupants caused by the jackknife.

- Code 23 Vehicle went airborne used when the vehicle left the ground. Example: The vehicle drove off a cliff, the vehicle was launched into the air after striking another vehicle, or after traversing a berm (a narrow shelf, path or ledge typically at the top or bottom of a slope and a mound or wall of earth or sand or the shoulder of a road.) Not to be used when the vehicle was going airborne during a rollover event.
- Fell/Jumped from vehicle used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. Example: An occupant of a motor vehicle in transport leans against the car door, it opens, and the occupant falls out; or a person riding on a vehicle's exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

## Code 95 Other non-collision (explain in narrative) – used when it involves one vehicle and none of the other attributes fits the situation.

#### C. COLLISION WITH - EXCEPT 34

#### Code 30 Collision with thrown or falling object

- used when any object is thrown (intentionally or unintentionally) and impacts an in-transport vehicle or the object falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car or a person maliciously throws an object off an overpass into traffic below, this attribute is used. This excludes contacts made by loads or objects set in-motion by a motor vehicle, then the code 38 "Struck/ Struck by object/cargo/person from other vehicle" is used.

- Code 31 Collision with animal used when an animal is struck.
- Code 32 Collision with non-motorist (see

  "Non-motorist" section) used when
  a non-motorist such as a pedestrian,
  bicyclist, horse and buggy, etc., is
  struck. Do not make non-motorist a
  unit. Units are only for those vehicles
  that are propelled by a motor or
  engine.
- Code 33 Collision with vehicle in traffic/transit (moving) used when a motor vehicle hits another motor vehicle, this would include motorcycles, moped, etc., but excludes horse and buggy and other non-motorists.
- Code 34 Re-entering roadway used when a vehicle that departed the roadway portion of the trafficway returns to the same roadway. Example: A motor vehicle in transport runs off the roadway right, strikes the guardrail face, and then re-enters the roadway. This is not used when a vehicle is just entering the road from a driveway.

# Code 35 Collision with parked motor vehicle – used when the impact occurred between a motor vehicle in-transport and a parked motor vehicle. A parked motor vehicle is a motor vehicle not



in-transport, other than a working motor vehicle, that is not in motion and not located on the roadway (travel lanes). In roadway lanes used for travel during some periods and for parking during other periods, a parked motor vehicle is considered in-transport during periods when parking is forbidden.

### **Code 36** Collision with work zone maintenance

equipment – used when a motor vehicle contacted is in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside of the trafficway boundaries. The code does not include private construction/maintenance vehicles or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc.

Some examples of when you would use Code 36:

- An asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
- A state highway maintenance crew painting lane lines on the road, mowing grass on the roadside, or median, repairing potholes, removing debris from the roadway, etc.
- A utility truck or a "cherry picker" performing maintenance on power lines along the roadway or maintaining a traffic signal.
- A private excavating company contracted by the state digging the foundation for a new overpass.
- A street sweeper sweeping the street.
- A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.

### Code 37

Collision with railway vehicle/train – used when any land vehicle that is designed primarily for, or in use for, moving persons or property from one place to another on rails is involved in crash.

### Code 38

Struck/Struck by object/cargo/ person from other vehicle - used when the injury or damage producing event is two motor vehicles in-transport making contact by something setin-motion by one of the vehicles. In crashes involving harmful events caused by objects set-in-motion by a motor vehicle in transport, remember that a vehicle's load is considered part of the vehicle and these are considered all one unit. Example: If cargo falls from a truck and strikes another motor vehicle, this is treated as a two-vehicle crash even if the two vehicles do not actually touch each other. If cargo falls from a truck and strikes a pedestrian or other nonmotorist, the proper attribute would be code 32 "Non-motorist."

### Code 96

Collision with other nonfixed object (explain in narrative) – used when the collision involves a motor vehicle colliding with another nonfixed object and none of the other attributes fit the situation.

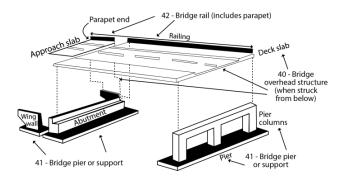


Code 44

Code 45

### D. COLLISION WITH A FIXED OBJECT

### **Bridge Components**



### Code 40 Collision with bridge overhead structure – used when striking the bottom of a bridge while traveling on a trafficway underneath the bridge.

# Code 41 Collision with bridge pier or support – used when striking the square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments that support the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing walls).

## Code 42 Collision with bridge/Rail parapet – used when striking the wooden, brick, stone, concrete, or metal fence-like structure that runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Bridges do not need to support another roadway but may be an overpass for a train or even for a viaduct (water conduit).

## Code 43 Collision with curb/Island/Raised median - used when any of the following are struck. Curb is a concrete or asphalt structure that borders the roadway. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Raised median provides space to locate pedestrian safety feature, landscaping, and storm water management. A raised island can be

used to narrow the traveled way, either in midblock locations, or to create gateways to entrances.

### Collision with ditch – used when any man-made structure for drainage purposes is struck. A ditch ends where a culvert begins and resumes on the opposite of the culvert. A collision with the sides of a ditch ("ditchbank" or "ditch embankment") should be coded as a Ditch rather than an embankment.

Collision with embankment – used when a raised structure to hold back water, carry a roadway, or the result of excavation or washout (including erosion) that may be faced with earth, rock, stone, or concrete. An embankment is usually differentiated from a wall by its incline, whereas a wall is usually vertical.

Code 46

Collision with ground – used when the impact is with an earthen or paved surface off of the roadway. "Ground" is not to be used when the harmful event is a "Rollover/Overturn." Example:

When a snowmobile comes out of a ditch and lands on the road causing damage to the vehicle, but the vehicle did not rollover or overturn. This code will not be used often.

### Code 47 Collision with culvert/Pipe opening – used when a man-made drain or channel crossing under a road, sidewalk, etc., is struck.

Code 48

Collision with guardrail face – used when a when a guardrail face, which is a low barrier, that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.) is struck. A guardrail is differentiated from code 50 "Concrete traffic barrier" by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers it is concrete (including concrete rails).

### Code 49 Collision with guardrail end – used when a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal



attached to the end of an expanse of guardrail face.

## Code 50 Collision with concrete traffic barrier – used when the longitudinal traffic barriers constructed of concrete are struck. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here but are code 64 "Walls."

- Code 51 Collision with other traffic barrier (explain in narrative) used for all other longitudinal barriers such as wood or rock and unknown barrier composition type.
- Code 52 Collision with cable barrier used when the flexible barrier system, which uses several cables typically supported by steel posts, is struck. These barriers are designed to help lessen the impact or keep vehicles within the confines of the road.
- Code 53

  Collision with impact attenuator/
  crash cushion used when a device for
  controlling the absorption of energy
  released during vehicle collision (crash
  cushion) is struck. Its most common
  application involves the protection of
  fixed-roadside objects such as bridge
  piers, elevated gores at exit ramps, etc.
  Example: Barrels filled with water or
  sand; plastic collapsible structures.
- Code 54 Collision with utility pole/light support

   used when the poles or supports for
  electrical, telephone, cable, lighting,
  and other utility pole type is struck.
- Code 55

  Collision with traffic sign support used when the post supporting traffic sign or the sign itself is hit by a motor vehicle. This includes mile marker posts and signs above the trafficway.
- Code 56 Collision with traffic signal support used when the post supporting a traffic signal or the signal itself is hit by a motor vehicle.

### Code 57 Collision with other post/pole/support-(explain in narrative) – used for posts other than highway signs (e.g., reflectors on poles alongside of roadway, parking meters, flag poles, etc.).

- Code 58

  Collision with fire hydrant used when the roadside device used by fire departments to provide water for fighting fires is struck. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.
- Code 59 Collision with mailbox used when a private residence mail/newspaper box, including the post, is struck. A cluster of private mailboxes is included in this attribute. This element does not include a U.S. mailbox, which are typically blue and are for general public use, these would be code 97 "Other fixed object."
- Code 60

  Collision with tree used when a vehicle strikes a standing tree. This includes impacts from overhanging branches or tree stumps. If a vehicle strikes a tree lying in the roadway, use code 96 "Other nonfixed object." If a tree falls on a vehicle as it is passing by, use code 30 "Thrown or falling object."
- Code 61 Collision with landscape/shrubbery used to refer to vegetation that is usually of a woody, multi-stemmed variety and in most instances is lowgrowing rather than tall. These may also be called bushes. Also used for the enhancement to the appearance of land, especially around buildings, by altering its contours, shrubs, and flowers.
- Code 62 Collision with snowbank used when snowfall and/or road plowing creates an essentially fixed barrier of snow/ice that are not snow-covered earth or rock embankments.
- Code 63 Collision with fence used when a fence or fence post is struck and can be made of wood, chain link, stone, etc.



### Code 64 Collision with wall - used for a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating area (but not for containment as in the primary function of a fence). Also included are headwalls (or end walls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wing walls should use code

Collision with building - used when Code 65 the vehicle impacts a roofed and walled structure build for permanent use. The type of construction material used is not of interest, nor is the use of the building.

41 "Bridge pier or support."

Code 97 Collision with other fixed object (explain in narrative) – used when the object is fixed (considered a permanent structure) and is not described by any of the other fixedobject attributes.

### E. MISCELLANEOUS EVENTS

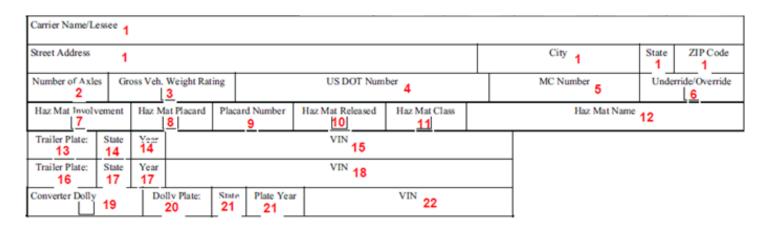
Code 70

fire or explosion that occurs during the crash sequence or as a result of the crash. As it pertains to the occurrence of a fire or explosion, the crash circumstances are not considered stabilized until the threat of damage to this vehicle or injury consequences to this vehicle's occupants has ceased. The event is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (e.g., in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash.

Fire/Explosion - used for a vehicle

- Code 71 Immersion - used when a motor vehicle enters a body or water and results in injury or damage. *Note: In* immersion injuries/fatalities, the injury to the person may be noted as "drowning."
- Code 72 Hit and run - used when the vehicle left the scene. This should not be the first or only sequence. The object they hit should be listed in the Sequence of Events prior to this selection. This also applies when the driver flees the scene on foot. This really is only for the "run" part.
- Code 73 **Eluding law enforcement –** used when the motor vehicle is trying to avoid being stopped by law enforcement.
- Code 74 Gas inhalation/asphyxiation - used when an injury or death results from toxic fumes such as carbon monoxide fumes leaking from the motor vehicle.
- Code 75 Vehicle out of gear/rolled - used when the vehicle comes out of gear and rolls causing damage or injury.
- Code 98 Other (explain in narrative) - used when none of the other attributes apply to the situation.
- Code 99 **Unknown –** used when you don't know all events due to a vehicle that has left the scene, or it is unknown what was hit.

### COMMERCIAL MOTOR VEHICLE SECTION



**DEFINITION**: Information collected concerning commercial vehicles, includes vehicles capable of carrying eight or more people (including the driver) and vehicles display a hazardous materials placard, regardless of weight.

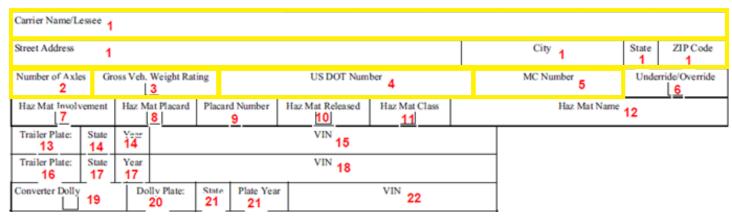
**RATIONALE**: Required by the Federal Motor Carrier Safety Administration (CFR 350.201). The FMCSA has the authority to fine and sanction unsafe interstate (and some intrastate) truck and bus companies. A keyway to identify potentially unsafe motor carriers is to collect crash data by the identification number (USDOT number), name and address of the company. The street address allows FMCSA staff to visit carriers and review compliance with FMCSA Regulations and provides a cross-check for the correct identity of the carrier. The USDOT number, found on the power unit and assigned by the U.S. DOT or by a state, is a key element for carrier identifications and the FMCSA databases for crashes and for other carrier information. This data element is collected at the scene to meet the FMCSA's 90-day reporting requirement.

### This section must be completed if any of the following applies:

- 1. Any truck that has a gross vehicle weight rating (GVWR) of 10,001 pounds or more, or a gross combination weight rating (GCWR) of 10,001 pounds or more.
- 2. Any motor vehicle with seating to transport nine (9) or more people, including the driver's seat.
- 3. Any motor vehicle displaying a hazardous materials placard (regardless of weight).

**AND** any of the following are true.

- 1. Any of the vehicles involved in the crash were towed due to disabling damages. The towed vehicle does not have to be the commercial motor vehicle (CMV).
- 2. Any party involved in the crash suffered injuries for which immediate treatment was necessary away from the scene. This code is not for those treated at the scene and released.
- 3. A fatality occurred.



Note: If the crash occurred on private property, the "CMV" section does not need to be completed.

### 1 CARRIER NAME/LESSEE

- a. Enter the carrier's name (an individual, partnership, or corporation) in the "Carrier Name/Lessee" field.
   The identification of the carrier can be found in three different ways.
  - 1. The carrier's name may be displayed on both sides of the vehicle, usually the driver's side door of the cab.
  - The carrier's name should be on the shipping papers carried by the driver, on the driver's log, or on the lease agreement. In the case of a bus, the driver carries a trip manifest, or a charter order, which gives the name of the motor carrier.
  - 3. Ask the driver for the carrier's name.
- b. Clearly enter the carrier's principal place of business in the carrier's "Address, City, State, ZIP Code" fields.

### 2 NUMBER OF AXLES

Enter the total number of axles on the vehicle, including the power unit and trailers in the "Number of Axles" field.

### **3 GVWR**

**DEFINITION:** The gross vehicle weight rating (GVWR) is the amount recommended by the manufacturer as the upper limit to the operational weight for the motor vehicle and any cargo (human or other) to be carried. The gross combination weight rating (GCWR) is the sum of all GVWRs for each unit in the combination unit motor vehicle (power unit plus trailer(s)). Thus for single-unit trucks, there is no difference between the GVWR and GCWR. For combination trucks, the GCWR is the total of the GVWRs of all the units in the combination.

**RATIONALE**: Required by the Federal Motor Carrier Safety Administration (CFR 350.201). The FMCSA imposes certain regulations on all single or combination unit trucks that have a GCWR of more than 10,001 pounds. Additional regulations are imposed on all motor vehicles with a

GVWR/GCWR of more than 26,000 pounds. This data element is collected at the scene because FMCSA requires reporting within 90 days.

Select the correct range for the GVWR/GCWR for the unit(s).

If GVWR of the power unit is less than 10,001 pounds, the GVWR for the trailer should be combined with that of the power unit.

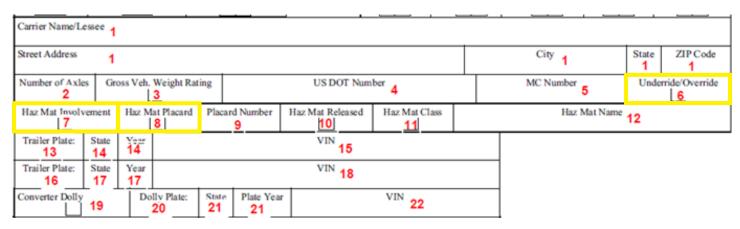
Code 1	10,000 pounds or less
Code 2	10,001-26,000 pounds
Code 3	26,001 pounds or greater

### **4 USDOT NUMBER**

- a. Enter the USDOT number in the "**USDOT Number**" field, when applicable. If there is no USDOT number available, leave the field blank.
- The USDOT number should be displayed on the power unit of the CMV and are usually found on one or both doors.
- c. The number for the USDOT number will be numerical with a length of seven digits or less and preceded by "USDOT."

### **5 MOTOR CARRIER NUMBER**

- a. Enter the motor carrier number in the "MC Number" field, when applicable. If there is no motor carrier number available, leave the field blank.
- b. The motor carrier number should be displayed on the power unit of the CMV and are usually found on one or both doors.
- c. The motor carrier number will be numeric with a length of six digits or less and preceded by "MC."



### 6 UNDERRIDE/OVERRIDE

**DEFINITION**: This element indicates whether an underride/override occurred for all vehicles during the crash.

**RATIONALE**: Needed to identify the magnitude of crashes in which an underride or override occurs to support National Highway Traffic Safety Administration rulemaking activities in motor vehicle bumper compatibility research.

- a. An underride refers to a vehicle sliding under another vehicle during the crash.
- b. An override refers to a vehicle riding over top of another vehicle during the crash.

**Note**: Either can occur with a parked vehicle.

- c. Select the appropriate code in the "Underride/ Override" field.
- d. If one unit is override, the other unit is underride

Code	1	None
Loue		MOLIE

Code 2 Underride, compartment intrusion



Underride, no compartment intrusion



Code 4

unknown

Underride, compartment intrusion



Override, moving vehicle



Override, parked/stationary vehicle

Code 01

Code 99

Code 7 **Unknown** (explain in narrative)

### 7 HAZMAT INVOLVEMENT

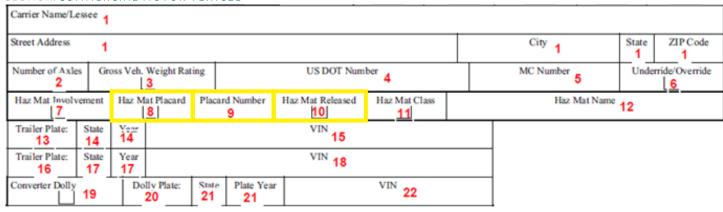
**DEFINITION**: Hazardous material is a substance or material that has been designated by the U.S. DOT or other authorizing entity as capable of posing an unreasonable risk to health, safety, and property when transported in commerce.

**RATIONALE**: This element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.

**Yes** – used when hazardous materials

were indicated for this vehicle. Code 02 **No –** used when there is no indication of hazardous materials for this vehicle. Code 03 Not applicable - used when the vehicle involved is not capable of carrying hazardous material.

**Unknown** (explain in narrative)



### 8 HAZMAT PLACARD

**DEFINITION**: This element indicates the presence of a diamond panel indicating the presence of hazardous material being transported.

**RATIONALE**: Data collected is used to calculate the risk assessment, determine response methods, and develop regulations. Vehicles carrying hazardous materials are required to carry shipping papers containing the hazmat class and identification number.

Code 01	Yes -	used when	hazardous	materials
Code 01	res –	usea wnen	nazardous	materials

are involved.

**Code 02 No –** used when hazardous materials are involved, but officer indicates there

is no placard.

Code 03 Not applicable – used when there

is no indication of hazardous materials

for this vehicle.

Code 99 Unknown (explain in narrative)

### **9 PLACARD NUMBER**

**DEFINITION**: Four-digit hazardous material identification number or name taken from the middle of a diamond or rectangle box located on the vehicle.

**RATIONALE**: Data collected is used to calculate the risk assessment, determine response methods, and develop regulations. Vehicles carrying hazardous materials are required to carry shipping papers containing the hazmat class and identification number.

- a. Enter the hazardous material class number in the "Placard Number" field.
- b. If number is unknown, leave the field blank.

### **10 HAZMAT RELEASED**

**DEFINITION**: This element indicates whether any hazardous cargo was released from the cargo tank or compartment.

RATIONALE: Required by the Federal Motor Carrier Safety Administration (CFR 350.201). The FMCSA devotes special attention to motor carriers that transport hazardous material, including calculating risk assessments, determining response methods, imposing higher regulations, and conducting compliance reviews on a higher percentage of hazmat carriers. Getting good data on crashes involving trucks carrying hazmat, and whether hazmat are spilled during the crash, helps FMCSA focus law enforcement efforts. This data element is collected at the scene because FMCSA requires reporting within 90 days.

- a. The intent of this field is to determine whether any of the placarded material was released or escaped from its transport container into the environment.
- Fuel or oil carried by the vehicle for its own use is not considered cargo and should not be reported in this field.

**Code 01 Yes –** used when there is hazardous material involved and was released from the material(s) cargo

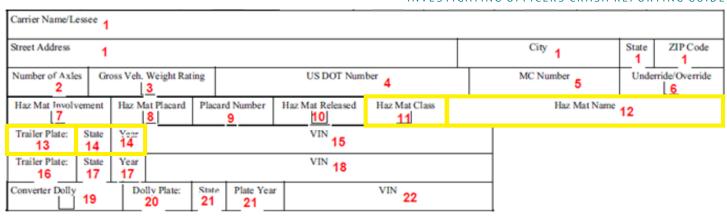
compartment.

Code 02 No – used when there is hazardous material involved but was not released

from the cargo compartment.

**Code 03 Not applicable –** used when there is no hazardous material involved.

Code 99 Unknown (explain in narrative)



### 11 HAZMAT CLASS

**DEFINITION**: This element indicates a single-digit hazardous material class number for the vehicle.

**RATIONALE**: Data collected is used to calculate the risk assessment, determine response methods, and develop regulations. Vehicles carrying hazardous materials are required to carry shipping papers containing the hazmat class and identification number.

- a. Enter the one-digit hazardous material class number in the "**Hazmat Class**" field.
- b. If you are given a two-digit number with a decimal point, record only the first digit in the "Hazmat Class" field.

### 12 HAZMAT NAME

**DEFINITION**: This element indicates the name of the hazardous material being transported.

RATIONALE: Required by the Federal Motor Carrier Safety Administration (CFR 350.201). The FMCSA devotes special attention to motor carriers that transport hazardous material, including calculating risk assessments, determining response methods, imposing higher regulations, and conducting compliance reviews on a higher percentage of hazmat carriers. Getting good data on crashes involving trucks carrying hazmat, and whether hazmat are spilled during the crash, helps FMCSA focus law enforcement efforts. This data element is collected at the scene because FMCSA requires reporting within 90 days.

- a. Enter the name of the material being transported in the "Hazmat Name" field.
- b. If you have two materials in the same class, report the material in greatest quantity, if you have the information.
- If you do not have the information, report the material that is listed first on the shipping papers or manifest.

### **13 TRAILER PLATE**

**DEFINITION**: This element identifies the registration information for the first trailing unit attached to the power unit.

**RATIONALE**: Used to identify the registration information for the trailer or towed vehicle and to confirm the identity of the owner/carrier.

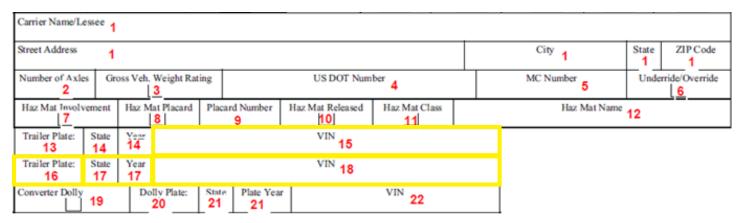
- Trailing unit applies to any device connected to a motor vehicle by a hitch, including tractor-trailer combinations, a single-unit truck pulling a trailer, etc.
- **b. Note**: This is **not** for the power unit plate. This is for the trailer or other unit attached to the power unit.
- c. Enter the plate number in the "Trailer Plate" field.

### 14 TRAILER PLATE STATE/YEAR

**DEFINITION**: This element identifies the state in which the trailing unit was registered.

**RATIONALE**: Used to identify the state in which the trailing unit was registered, for confirmation of ownership.

- Enter two-digit state abbreviation in the "State" field.
- Enter the validation year on the sticker in the "Year" field as this would show the most current year of registration.



### **15 TRAILER VIN**

**DEFINITION**: This element identifies the unique combination of alphanumeric characters assigned to the specific unit as designated by the manufacturer. This manufacturer-assigned number is permanently affixed to the unit.

RATIONALE: Used to identify the specific design characteristics for effective evaluation. The Federal Motor Carrier Safety Administration uses this information to keep statistical records of any issues with the unit due to design or manufacturing flaws as it pertains to the safety of all users of state and interstate highways and roadways.

- a. The vehicle identification number (VIN) is usually a 17-digit number.
- Enter the VIN exactly as it appears on the unit or any available identifying paperwork in the "VIN" field. If unable to locate the VIN, leave the field blank.

### **16 TRAILER PLATE**

### (SECOND TRAILING UNIT IN DOUBLES)

**DEFINITION**: This element identifies the registration information for the second trailing unit attached to the first trailing unit.

**RATIONALE**: Used to identify the registration information for the second trailer or towed vehicle and to confirm the identity of the owner/carrier.

- a. Trailing unit applies to any device connected to a motor vehicle by a hitch, including tractor-trailer combinations, a single-unit truck pulling a trailer, etc.
- b. **Note**: This is not for the power unit plate. This is for the trailer or other trailing unit attached to the **first** trailing unit.
- Enter the plate number in the second "Trailer Plate" field.

### 17 TRAILER PLATE STATE/YEAR

(SECOND TRAILING UNIT)

**DEFINITION**: This element identifies the state in which the second trailing unit was registered.

**RATIONALE**: Used to identify the state in which the second trailing unit was registered, for confirmation of ownership.

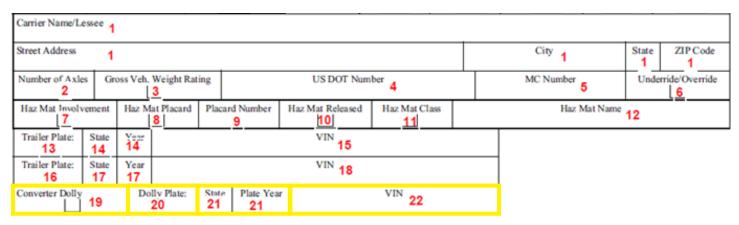
- Enter two-digit state abbreviation in the second "State" field.
- b. Enter the validation year on the sticker in the second "**Year**" field as this would show the most current year of registration.

### **18 TRAILER VIN (SECOND TRAILING UNIT)**

**DEFINITION**: This element identifies the unique combination of alphanumeric characters assigned to the specific unit as designated by the manufacturer. This manufacturer-assigned number is permanently affixed to the unit.

**RATIONALE**: Used to identify the specific design characteristics for effective evaluation. The FMCSA uses this information to keep statistical records of any issues with the unit due to design or manufacturing flaws as it pertains to the safety of all users of state and interstate highways and roadways.

- a. The VIN is usually a 17-digit number.
- Enter the VIN exactly as it appears on the unit or any available identifying paperwork in the second "VIN" field. If unable to locate the VIN, leave the field blank.



### **19 CONVERTER DOLLY**

**DEFINITION**: A small trailer that can be coupled to a truck or trailer so as to support a semitrailer. The dolly consists of a bogie equipped with a kingpin and a fifthwheel to which the semitrailer is coupled. It is equipped with between one and three axles and is designed to connect a tow bar on the rear of the truck or trailer in front.

**RATIONALE**: This element is used to identify equipment used to tow additional units. Information is collected to link records as it pertains to maintenance and safety issues.

**Code 1 Yes –** dolly was used.

Code 2 No – dolly was not used.

Code 3 No information/label – used when

there is no information or label or it is unreadable.

**Unknown** (explain in narrative)

Code 9





### **20 DOLLY PLATE**

**DEFINITION**: This element identifies the registration information for the dolly used.

**RATIONALE**: Information needed to link records between manufacturers and owner/leaser/lease to maintain the integrity of the equipment and its maintenance and safety records.

Enter the plate number in the "Dolly Plate" field.

### 21 DOLLY STATE/YEAR

**DEFINITION**: This element identifies the state in which the dolly was registered.

**RATIONALE**: Used to identify the state in which the dolly was registered, for confirmation of ownership.

- Enter the two-digit state abbreviation in the "State" field.
- b. Enter the validation year on the sticker as this would show the most current year of registration in the year field.

### 22 DOLLY VIN

**DEFINITION**: This element identifies the unique combination of alphanumeric characters assigned to the specific unit as designated by the manufacturer. This manufacturer-assigned number is permanently affixed to the unit.

**RATIONALE**: Used to identify the specific design characteristics for effective evaluation. The FMCSA uses this information to keep statistical records of any issues with the unit due to design or manufacturing flaws as it pertains to the safety of all users of state and interstate highways and roadways.

Enter the VIN exactly as it appears on the unit or any available identifying paperwork in the "VIN" field. If unable to locate the VIN, leave the field blank.

					2	3	4	5	6	7	8	9	10	
					Sex	Seating Position	Injury Status	Occupant Protection		Ejection	Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute
	Phone Number:												$\square$	
DRIVER OF UNIT 1	Transported to:							sporte	d By:					
Name 1: 1		Phone: 1 DOB: 1												
Address:		Trans. to: 11					Tran	s. By:	12					
Name 2:		Phone:		DOB:										
Address:		•	Trans. to:				Tran	s. By:						
Name 3:		Phone:		DOB:										
Address:	Trans. to:						Tran	s. By:						
Name 4:	Phone: DOB:													
Address:			Trans. to:				Tran	s. By:						

### INJURY SECTION

### 1 NAMES, ADDRESSES, PHONE NUMBERS, DATE OF BIRTH

You do not have to re-enter the driver's name, gender, or their seating position since this information has already been collected above. Fields 2 thru 10 in this section **must** be filled out for the driver of the vehicle even if they are NOT injured. If possible, it is a good practice to capture this information for **all** passengers that are in the same vehicle as the driver whether they are injured or not. This creates a record for the officer of all people in the vehicle at the time of the crash. An exception to this would be passengers on a bus if they are not injured.

**DEFINITION**: All data elements for each person are needed because they describe the characteristics, actions, and consequences to persons involved in the crash. These elements include the full name, address, date of birth, and gender.

**RATIONALE**: The date element of the name is collected to facilitate future linkage to health and insurance files. The accurate reporting of the date of birth is used to assess the effectiveness of occupant protection systems for specific age groups and to identify the need for safety programs directed toward them. This element is also critical in providing linkage between the crash, emergency medical service, and hospital records. Gender is used to evaluate the effect of gender of the person involved on occupant-protection systems and motor vehicle design characteristics.

### **2 SEATING POSITION**

**DEFINITION**: The location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events. Describes the type of person involved in a crash.

**RATIONALE**: Need to know person type for classification purposes to evaluate specific countermeasures designed for specific people. Without known seating position for each person is the motor vehicle, it is not possible to fully evaluate, for example the effect of occupant protection programs.

1	2	3	First row
4	5	6	Second ro
7	8	9	Third row
10	11	12	Fourth rov
13	14	15	Fifth row

- 16 In sixth row or greater
- 17 In enclosed passenger/cargo area
- 18 In unenclosed passenger/cargo area
- cond row 19 Sleeper
  - 20 Trailing unit
  - 21 Riding on exterior of vehicle
  - 22 Hanging onto vehicle
  - 23 Passenger of motorcycle/moped/ATV
  - 98 Other vehicle-related (explain in narrative)
  - 99 Unknown

						2	3	4	5	6	7	8	9	10
					Sex	Seating Position	Injury Status	Occupant Protection	Airbag Deployment	Ejection	Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute
	Phone Number:													Щ
DRIVER OF UNIT 1	Transported to:						Tran	sporte	d By:					
Name 1: 1		Phone: 1 DOB: 1												
Address:			Trans. to:	11			Tran	s. By:	12					
Name 2:		Phone:		DOB:										
Address:			Trans. to:				Tran	s. By:						
Name 3:		Phone:	•	DOB:										
Address:	Trans. to:						Tran	s. By:						
Name 4:	Phone: DOB:			DOB:										
Address:		Trans. to:					Tran	s. By:						

### **3 INJURY STATUS**

**DEFINITION**: The injury severity level for a person involved in a crash. If an injury changes to a fatality within 720 hours of the crash, it is especially important to change the "Injury Status" and the "Died at scene/ enroute" fields on the crash report and transmit the modified case to the lowa Department of Transportation in a timely manner. This should be done for all injuries that change.

**RATIONALE**: Necessary for injury outcome analysis and evaluation. This element is also critical in providing linkage between the crash, emergency medical service, and hospital records.

**Note**: Other than code 1 "**Fatal**," code 2 "**Serious**," and code 7 "**Fatal not crash related**," the person may refuse treatment but the attribute should be based on what was observed at the scene or indicated to the officer when interviewing everyone involved. Example: A person complains of pain but then refuses treatment, if there is nothing to indicate that it should be something more than a possible then use code 4.

### Code 1

Fatal – A fatal injury is any injury that results in death within 30 days (720 hours) after the motor vehicle crash in which the injury occurred. If the person did not die at the scene but died within 30 days (720 hours) of the motor vehicle crash in which the injury occurred, the injury classification should be changed from the attribute previously assigned to the attribute "Fatal Injury."

### Code 2

**Suspected Serious Injury** – A suspected serious injury is any injury other than fatal which results in one or more of the following:

- Severe laceration resulting in exposure of underlying tissues/ muscle/organs or resulting in significant loss of blood
- Broken or distorted extremity (arm or leg)
- Crush injuries
- Suspected skull, chest, or abdominal injury other than bruises or minor lacerations
- Significant burns (second and third degree burns over 10% or more of the body)
- Unconsciousness when taken from the crash scene
- Paralysis

### Code 3

### Suspected minor/non-incapacitating

 A minor injury is any injury that is evident at the scene of the crash, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/ muscle).

				2	3	4	5	6	7	8	9	10		
								Occupant Protection	Airbag Deployment	Ejection	Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute
	Phone Number:													
DRIVER OF UNIT 1	Transported to:						Tran	sporte	d By:					
Name 1: 1	Phone: 1 DOB: 1			DOB: 1	1									
Address:			Trans. to:	11			Tran	s. By:	12					
Name 2:		Phone:		DOB:										
Address:			Trans. to:				Tran	s. By:						
Name 3:		Phone: DOB:												
Address:		Trans. to:					Tran	s. By:						
Name 4:	Phone: DOB:			DOB:										
Address:							Tran	s. By:						

### Code 4 Possible (complaint of pain/injury)

– A possible injury is any injury reported or claimed which is not a fatal, suspected serious, or suspected minor injury. Examples include momentary loss of consciousness, claim of injury, limping, or complaint of pain or nausea. Possible injuries are those that are reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.

Code 5

**Uninjured** – No apparent injury is a situation where there is no reason to believe that the person received any bodily harm from the motor vehicle crash. There is no physical evidence of injury and the person does not report any change in normal function.

Code 7

**Fatal, not crash related** – used when the vehicle fatalities that are involved in a motor vehicle crash have died from natural causes such as a stroke, heart attack, or from a homicide or suicide.

Code 9

**Unknown** – used when the person has left the scene and injury status is unknown.

### **4** OCCUPANT PROTECTION

**DEFINITION**: The restraint equipment is use by the occupant, or the helmet used by a motorcyclist at the time of the crash.

**RATIONALE**: Proper classification of the use of available occupant restraint systems and helmet use is vital to evaluating the effectiveness of such equipment.

Code 01

Not applicable – used when there is no restraint available in the seat position of this occupant. Use this attribute for persons who are riding in the sleeper section of the cab of a truck, for persons who are riding on the exterior of the vehicle, and for persons in unenclosed cargo areas, such as the bed of a pickup truck. This is NOT to be used for motorcycle drivers or their passengers. For motorcyclists, use Code 2, Code 10, or Code 11.

Code 02

**None used** – used when the occupant did not use a restraint even though it was available. An example would be a motorcyclist who did not use a helmet, or a motor vehicle driver or passenger did not use their seatbelt.

Code 03

**Shoulder and lap belt used** – used when the occupant restraint system consists of both the shoulder belt and lap belt portions and is connected to a buckle.

								2	3	4	5	6	7	8	9	10		
							Sex	Seating Position	Injury Status	Occupant Protection	Airbag Deployment	Ejection	Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute		
		Phone Number:					Š	Š	ā	0	<	Ξ,	Ξ.	E	Š	Ω		
DRIVER OF	F UNIT 1	Transported to:							Tran	sporte	d By:			_				
Name 1: 1			Phone: 1		DOB: 1		1											
Address:				Trans. to:	11				Tran	s. By:	12							
Name 2:			Phone:		DOB:													
Address:			'	Trans. to:	•				Tran	s. By:								
Name 3:			Phone:		DOB:													
Address:				Trans. to:	•				Tran	s. By:								
Name 4:	Phone: DOB:																	
Address:			•	Trans. to:	•				Tran	s. By:								
Code 05  Code 06	occupant is using a lap safety belt either because the motor vehicle is equipped only with a lap belt or because the shoulder belt is not in use.  Shoulder belt only used – used for a two-part occupant restraint system and only the shoulder belt portion is connected to a buckle.  Child safety seat (forward-facing) – used when a child passenger is seated in a forward-facing child safety								cycle ederards. image the lead of the lead	heli The tely: st or e foa the f ma r on ker a o ind iant, foun helm		that Vehi /pica unds ich t ave ufac ctur back is n e tha coun fixec	is coicle! s, have hick an interest e, and of the left th	ompl Safe ve ag of fi nside r, mo d ha he h noug e he eit st	liant ty h n inr rm e lab odel, ove a love a lmet icke	ner pel a et.		
Code 07	Code 07  Child safety seat (rewhen a child passe a rearward facing of This does not imply placement of the sea			1	Code 11 Code 98	motorcycle helmet was used but could not be determined if it was compliant.							t it s D( d of	)Τ				
Code 09	knows the restraint is restraint if the restraint is restraint if the restraint is restraint in the restraint is restraint in the restraint is restraint in the restraint in the restraint in the restraint is restraint.	of child t the type of nen a child	nild of	Code 99		<b>Un</b>	<b>kno</b> v s lef knov	<b>wn</b> -	use sce	e of d wh ne s kind	hen o tha	the v	/ehio		re			

				2	3	4	5	6	7	8	9	10		
				Sex	Seating Position	Injury Status	Occupant Protection	Airbag Deployment		Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute	
	Phone Number:													
DRIVER OF UNIT 1	Transported to:						Tran	sporte	d By:					
Name 1: 1		Phone: 1 DOB: 1												
Address:		Trans. to: 11					Tran	s. By:	12					
Name 2:		Phone:		DOB:										
Address:			Trans. to:				Tran	s. By:						
Name 3:		Phone:		DOB:										
Address:		Trans. to:					Tran	s. By:						
Name 4:	Phone: DOB:													
Address:		Trans. to:					Tran	s. By:						

### 5 AIR BAG DEPLOYMENT

**DEFINITION**: This element is used to record air bag availability and deployment.

**RATIONALE**: Necessary to evaluate the effectiveness of air bags and other occupant protection equipment, especially at a time when air bags are becoming standard equipment.

Code 01 **Not applicable** – used when there was

no air bag available for this person.

Code 02 **Airbag turned off** – used when there

is indication that any air bag for this occupant's position was manually switched off and did not deploy.

Code 03 Not deployed - used only if the

> vehicle is equipped with an air bag(s) for this occupant's position, but it (they) did not deploy in the crash.

Code 04 **Deployed front of person** – used when

driver or front-seat passenger's air bag is out of its cover and protruding into driver compartment. Bag is fully or partially deflated or inflated.

Code 05 **Deployed side of person** – used when

> air bag on side of motor vehicle is out of its cover and protruding into occupant compartment. Bag is fully or partially deflated or inflated.

Code 06

**Deployed both front/side** – used when more than one air bag deploys from front and side into occupant compartment. Bag is fully or partially deflated or inflated.

Code 07

**Deployed curtain** – used when the curtain air bag is out of its cover and protruding into driver or passenger compartment. Bag is fully or partially deflated or inflated.

Code 98

Other deployment (explain in narrative) - used when a knee air bag, air belt, or other new air bag technology is deployed.

Code 99

**Unknown** – used when this information is unavailable because the vehicle has left scene.

				2	3	4	5	6	7	8	9	10		
				Sex	Seating Position	Injury Status	Occupant Protection	Airbag Deployment		Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute	
	Phone Number:													
DRIVER OF UNIT 1	Transported to:						Tran	sporte	d By:					
Name 1: 1		Phone: 1 DOB: 1												
Address:		Trans. to: 11					Tran	s. By:	12					
Name 2:		Phone:		DOB:										
Address:			Trans. to:				Tran	s. By:						
Name 3:		Phone:		DOB:										
Address:	Trans. to:						Tran	s. By:						
Name 4:	Phone: DOB:			DOB:										
Address:		Trans. to:					Tran	s. By:						

### **6** EJECTION

**DEFINITION**: Occupant completely or partially thrown from the interior of the motor vehicle, excluding motorcycles, as a result of a crash.

**RATIONALE**: Occupant protection systems prevent or mitigate ejections to various degrees. Analyses of the effectiveness of safety systems depend on information from this data element.

**Note**: Ejection refers to occupants being totally or partially thrown from the vehicle, including the bed of pickup trucks, during the course of the crash. This includes occupants of Jeeps, go-karts, snowmobiles, three- or four-wheel ATV/UTVs, and three wheel motorcycles, but excludes occupants of two-wheel motorcycles and mopeds.

Code 1

Not applicable – used for persons who are riding on the exterior of a vehicle or for two-wheel motorcycle or moped occupants. The exterior of the vehicle includes running boards, roof, fenders, and bumpers, but not the bed of pickup trucks, open tailgate, or boot of a convertible.

Code 2

**Not ejected** – used when the listed occupant was not ejected or the occupant was in a hit and run vehicle unless it is known that an ejection did occur.

Code 3

Partially ejected – used when some part but not all of an occupant's body is, at some time during the crash, outside the occupant compartment. This does not apply to occupants who are not initially in the seating compartment of the vehicle (e.g., pickup bed, boot of a convertible, and person riding on an open tailgate), since any ejection for these would use code 4 "Total ejected."

Code 4

**Totally ejected** – used when the occupant's body is entirely outside the vehicle by may be in contact with the vehicle. This includes an occupant who is not initially in the seating compartment of the vehicle (e.g., pickup bed, boot of a convertible, and person riding on an open tailgate).

Code 9

**Unknown** – used if information is unknown.

		_		2	3	4	5	6	7	8	9	10		
								Occupant Protection	Airbag Deployment		Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute
	Phone Number:													
DRIVER OF UNIT 1	Transported to:						Tran	sporte	d By:					
Name 1: 1		Phone: 1 DOB: 1												
Address:		Trans. to: 11					Tran	s. By:	12					
Name 2:		Phone:		DOB:										
Address:			Trans. to:				Tran	s. By:						
Name 3:		Phone:		DOB:										
Address:		Trans. to:					Tran	s. By:						
Name 4:		Phone: DOB:												
Address:		Trans. to:					Tran	s. By:						

### **7** EJECTION PATH

**DEFINITION**: This element identifies the path by which this person was ejected from the vehicle.

**RATIONALE**: Use to analysis the projection of occupants involved in a crash for information on preventive safety measures.

This is used in conjunction with above the "**Ejection**" field so you cannot have a code 2 "**Not ejected**" and any element of codes 2 through 9.

Code 01 Not ejected/Not applicable – used

when this occupant was not ejected or they are riding a two wheel motorcycle

or moped.

**Code 02** Through front windshield – used when

this occupant was ejected either partially or completely through the

front windshield.

**Code 03** Through side window – used when

this occupant was ejected either partially or completely through the side

window.

Code 04 Through side door – used when this

occupant was ejected either partially or completely through the side door.

Code 05 Through roof – used when this occupant was ejected either partially or

completely through the roof.

Code 06

**Through back window** – used when this occupant was ejected either partially or completely through the

back window.

Code 07 Through back door/tailgate opening

 used when this occupant was ejected either partially or completely through the back door or tailgate opening.

**Code 98 Other** (explain in narrative) – used

when none of the above elements indicate the proper ejection path taken.

**Code 99 Unknown** – used when it is unknown

what the ejection path was.

### 8 TRAPPED/EXTRICATED

**DEFINITION:** This element identifies if equipment or other force was used to remove this person from the vehicle more than just lifting or carrying person out of wreckage.

**RATIONALE**: Used for analysis purposes evaluating vehicles for safety improvements in exiting a vehicle after a crash.

If an officer indicates that a person was "pinned" or "wedged" or something similar, then the officer must indicate that equipment was used to remove the occupant.

Code 1

Not trapped/applicable – used when there is no extrication for this occupant. This field is not applicable to motorcycle and ATV/ATC riders.

							2	3	4	5	6	7	8	9	10		
						Sex	Seating Position	Injury Status	Occupant Protection	Airbag Deployment	Ejection	Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute		
		Phone Number:				S	S		0	<	Ξ.	ω.	F	S	-		
DRIVER O	F UNIT 1	Transported to:						Tran	sporte	d By:							
Name 1: 1			Phone: 1		DOB: 1	1											
Address:				Trans. to:	11			Tran	s. By:	12							
Name 2:			Phone:	•	DOB:												
Address:				Trans. to:				Tran	s. By:								
Name 3:				DOB:													
Address:		Trans. to:	Trans. B						is. By:								
Name 4:			Phone:		DOB:												
Address:			Trans. to:	Trans. By:													
Code 2	<ul><li>used wh</li><li>means wa</li><li>from being</li></ul>	I by nonmechanen some non as used to assi g removed froust lifting or can vehicle.	-mechanical st occupant om vehicle	n	Code 04  Code 05	Law enforcement – used when enforcement officer is taking th or injured party to a medical facture due to injuries. This is not to be when making tests for alcohol of Parent/Spouse/Friend – used when making tests for alcohol of the control of the							the driver facility be used ol or drugs.				
Code 3	used whei assistance	I by mechanican there was meeto remove are such as "jaws of	nechanical n occupant fro	om ent.		parent, spouse, or friend tran the driver or injured party for treatment or evaluation. <b>Self</b> – used when the driver o						ansports for medical					
Code 9		– used when	it is unknowi		Code 06  Self – used when the departy indicates they will themselves to a medicate treatment or evaluation							will be driving dical facility for					
	: Type and iden dical facility re	tity of unit pro		port	Code 07	th	<b>fune</b> e dri	ver c	or inj	ured	par	ty is	dece	ease	d		
crash through	the health care	e system. Faci	n from the scene of morgue. Facilitates linkage cy medical services <b>Code 98 Other</b> <i>(explain i</i>							aken directly to a funeral home ue. • (explain in narrative) – used none of the above apply.							
Code 01	injured party or driver is not transported because they are not hurt or are refusing medical treatment									d wh h as							
Code 02	injured pa	used when th arty is transpo some other me	rted by Life	vice.													
Code 03	or injured	nd – used who party is trans e or other me															

						2	3	4	5	6	7	8	9	10
					Sex	Seating Position	Injury Status	Occupant Protection	Airbag Deployment	Ejection	Ejection Path	Trapped/extricated	Source of Transport	Died at scene/enroute
	Phone Number:													
DRIVER OF UNIT 1	Transported to:	ransported to:					Tran	sporte	d By:					
Name 1: 1		Phone: 1 DOB		DOB: 1	1									
Address:	'		Trans. to: 11				Trans. By: 12							
Name 2:	Phone:			DOB:										
Address:		•	Trans. to:				Tran	s. By:						
Name 3:		Phone:		DOB:										
Address:		Trans. to:				Tran	s. By:							
Name 4: Phone:			DOB:											
Address:			Trans. to:				Tran	s. By:						

### **10 DIED AT SCENE/ENROUTE**

**DEFINITION**: This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.

**RATIONALE**: Information is used by National Highway Traffic Safety Administration's Fatality Analysis Reporting System (FARS) analysis.

**Code 01 Not applicable** – when an occupant

did not die

Code 02 Died at scene – used for victims who

are dead at the scene of the crash.

**Code 03 Died enroute** – used for victims who

die on the way to a hospital or treatment facility by emergency medical service or other transport.

Code 04 Died at hospital – used for victims that

die at the hospital shortly after arriving.

Code 05 Died later, within 30 days (720 hrs)

 used for victims who die in the hospital before the 30 days from crash date has passed and they died from

crash related injuries.

**Code 98** Other (explain in narrative) – used when

none of the above apply.

**Code 99 Unknown** – used when information is

unknown, this should be rarely if

ever used.

### 11 & 12 TRANSPORTED TO AND TRANSPORTED BY

**DEFINITION**: These are spaces to be used to indicate where the injured party has been sent to receive treatment and how they arrived at this location.

**RATIONALE**: Helps to provide linkage to the parties that provided the transportation and the treatment center that provided medical assistance.

If transported to a medical examiner, clarify what county of if to the State Medical Examiner in Ankeny.

	IOWADOT	INVESTIGATING OFFICER'S REPORT		Sheet 3 of 4	
Form 433003 (03-19)					Law Enforcement Case Number:
			OF MOTOR VEH	IICLE ACCIDENT	
MA	IL REPORTS TO: Iov	va Department of Transpor	tation, Driver & Identificati	ion Services, P.O. Box 9204, Des Moines, Iowa 50306-9204	
	Date of Accident	Time of Accident	County	Accident occurred within corporate limits of (city):	Legal 1 Private 2 Intervention?
L	If accident occurred or city limits show gener	2	N NE E SE S S	SW W NW of nearest city	County: 7 Route: 8
C	On Road, Street, or H	ighway: 4	At inters	section with: 5	y X-Coordinate:
A T				ed above, use the space below to give the exact location wo distances and directions if necessary.	10 Y-Coordinate:
I O N	Feet Miles or Milepost Number	N NE E SE S  O O O O  Definable intersection bridge, or railroad cr		or N NE E SE S SW W NW of	If Divided highway, Provide Route (Cardinal) Travel Direction  NB SB 11 EB WB

### **LOCATION SECTION**

**DEFINITION**: Gives the precise location where the situation became unstable.

**EXAMPLE:** If a vehicle loses control while going around a corner and hits a house, you should locate the crash at the intersection where the driver lost control, not where they hit the house. Also, this would not be a Private Property crash because it became unstable on the road.

**RATIONALE**: Allows location information to be placed and then utilized to determine if other safety features for this trafficway may need to be completed.

**Note**: Date and time of the crash do not have to be completed again, however, it is helpful when the paper form is being completed to fill out the "**County**" and "**City**" fields again as lowa DOT staff use this information to bring up the correct county maps on their location tool.

If using TraCS Location Tool, 3-11 do not apply.

**1 LEGAL INTERVENTION** is marked only if law enforcement used some sort of force or other means to stop an eluding vehicle (i.e., ramming the vehicle or using sticks to puncture tires). When this field is used, the crash is not considered to be a crash event and neither party has a crash recorded. However, if another event occurs based on the above situation (i.e., such as someone is hurt that was not intended to be injured), other property becomes damaged, or officer loses control and sustains injury or damage, then the situation changes and becomes reportable as a crash event. Iowa law allows that if this occurs to an officer while he is in the line of duty, he can have his supervising officer complete an officer on duty form and submit it to the Iowa DOT. This form is available online.

**2 PRIVATE PROPERTY** is used when the crash occurred on private property (such as a parking lot, parking ramp, some area of a park or rest stop, farm fields, etc.). Reminder: Crashes still need to be reported to the Iowa DOT if they meet the criteria of total property damage was \$1,500 or an injury or fatality occurred. The information you provide to the department regarding these crashes may not always be used for statistical purposes but are still used for financial responsibility requirements and other departmental actions such as re-examinations and graduated driver license (GDL).

### 3 IF THE CRASH OCCURRED OUTSIDE OF

**CITY LIMITS**, show the general vicinity by miles, give the direction from the nearest lowa city and enter the name of that city in the "of nearest city" field.

### 4 ROAD, STREET, OR HIGHWAY

Enter the number or name of the road, street, or highway in the "On Road, Street, or Highway" field. Avoid the use of local road names that cannot be identified on a map. Indicate if the road or street does not have a number or name. For example: Enter "Unnumbered county road."

### 5 INTERSECTION

If the crash occurred in an intersection, enter the number or name of the intersecting road, street, or highway in the "At intersection with" field.

- Railroad crossings may be shown in this space, if applicable.
- A private drive, farm drive, or business drive is not an intersection. Refer to "Intersection Definitions" on page 87 for definitions and diagrams of intersections.
- If the crash occurred within an intersection of two different classes of roads, indicate that the crash happened on the higher-class road at an intersection with a lower-class road. For example: On U.S. 69 at intersection with Iowa 210, or on Iowa 210 at intersection with County Road R-14.
- If duplicate junctions are involved, indicate the proper one by an N, NE, E, SE, S, SW, W, or NW designation. For example: East and west junctions of U.S. 6 and U.S. 63.

	IOWADOT	IN	VECTICATING	FFICER'S REPORT	S	heet 3	of 4
_	Form 433 003 (03-19)			ICLE ACCIDENT	Law En	forcement C	Case Number:
M	AIL REPORTS TO: Iov	va Department of Transporta	tion, Driver & Identification	on Services, P.O. Box 9204, Des Moines, Iowa 50306-920	4		
	Date of Accident	Time of Accident	County	Accident occurred within corporate limits of (city):	Legal Intervent		vate 2 perty?
L	If accident occurred o city limits show gener	3 miles	N NE E SE S S'	W W NW of nearest city	County:	7 Ro	oute: 8
C	On Road, Street, or H	ighway: 4	At interse	ection with: 5	9	X-Coordin	rate:
A T	rvote. Offices accident			ed above, use the space below to give the exact location wo distances and directions if necessary.	10	Y-Coordin	rate:
I	Feet Miles or	N NE E SE S SW	W NW 6 Feet	or Miles N NE E SE S SW W NW	of (Cardinal	) Travel Dir	
N	Milepost Number	or Definable intersection, bridge, or railroad cross			NB O	SB 11 E	EB WB

### **6** EXACT LOCATION

Use the "Feet, Miles, Milepost Number, or Definable intersection, bridge, or railroad crossing" fields to identify the exact location of the crash unless it occurred at the intersection of numbered routes and is completely described previously.

- For crashes at complex intersections, the exact location within the intersections should be described in these fields.
- The location of non-intersection rural crashes should be identified as being a specific distance from a known point; such as an intersection of two numbered routes, a railroad crossing, major bridge, or county line, using one or more distances or directions. Do not use pavement markers, station markers, or bridge numbers.
- Non-intersection city crashes should be identified as being a specific distance (in feet) from the nearest intersection. Do not use intersection of a road and a business or residential drive. Do not use the block number of a street. For example: Do not state "100 block," although a specific address is acceptable.
- If the specific location can be described from one or more definable points but does not fit into the blank on the form, write "See narrative" and enter the description in the "Narrative" section on the back of the form.

### 7 COUNTY

Enter the county number in the "County" field. This field is optional but should be entered if the officer has access to global positioning system (GPS) information.

### 8 ROUTE

Enter the "**Route**." This field is optional but should be entered if the officer doesn't have access to GPS information.

### 9 X-COORDINATE

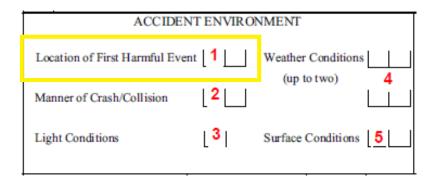
Enter the "x-coordinate" of the first harmful event or where the event became unstabilized. This field is optional, but it should be entered if the officer has access to GPS information. Provide the coordinate in UTM Format – NAD83 DATUM (i.e., 0443924).

### **10 Y-COORDINATE**

Enter the "**y-coordinate**" of the first harmful event or where the event became unstabilized. This field is optional, but it should be entered if the officer has access to GPS information. Provide the coordinate in UTM Format – NAD83 DATUM (i.e., 4652238).

### **11 DIVIDED HIGHWAY**

If the crash occurred on a divided highway, mark the direction of the lane of travel where the first harmful event happened in the "If Divided Highway, Provide Route (Cardinal) Travel Direction" field. (The cardinal directions of Interstate 35 are north and south, even where the roadway is oriented east and west around Des Moines.)

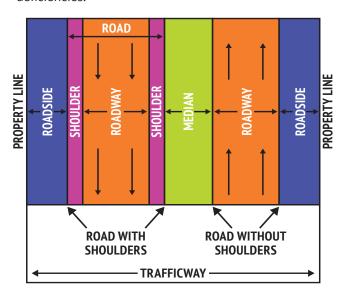


### ACCIDENT ENVIRONMENT SECTION

### 1 LOCATION OF FIRST HARMFUL EVENT:

**DEFINITION**: The location of the first harmful event as it relates to its position within or outside the trafficway. This should indicate when property damage or an injury first occurred.

**RATIONALE**: Important to identify highway geometric deficiencies.



Code 01

On roadway – used when the roadway is that part of a trafficway designed, improved and ordinarily used for motor vehicle travel or, where various classes of motor vehicles are segregated, that part of a trafficway used by a particular class. Separate roadways may be provided for northbound or southbound traffic or for trucks and automobiles. Roadway may be noted as the travel lanes and if present, includes the area between the painted "fog lines." Additionally, a driveway access area is considered part of the roadway of the trafficway to which it connects.

Code 02

Code 03

structure. It can be paved or unpaved and on either side of the roadway. Not

considered medians.

all roadways have shoulders. Median – used when it is that

Shoulder – used when the part of

the trafficway contiguous with the

accommodation of stopped vehicles,

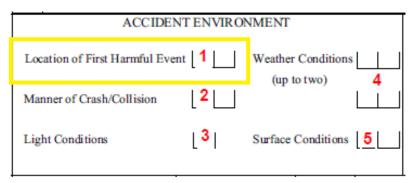
and for lateral support of the roadway

roadway for emergency use, for

area of a divided trafficway between parallel roads separating travel in opposite directions. The principal function of a median is to have freedom from interference of opposing traffic, to provide a recovery area for out-of-control vehicles, to provide a stopping area in case of emergencies, and to minimize headlight glare. Medians may be depressed, raised, or flush. Flush medians can be as little as 4 feet wide between roadway edge lines. Painted roadway edge lines 4 feet or more wide denote medians. Medians of lesser width must have a barrier to be considered a median. Continuous left-turn lanes are not

Code 04

Roadside - used when a location off the roadway, but inside the right of way. It is the outermost part of the trafficway that lays between the outer property line or other barrier and the edge of the first road encountered in the trafficway. Bicycle lanes and shared-use path or trails contiquous with the roadway and sidewalks are also included. In addition, use this attribute if the first harmful event occurs in a raised or painted center island (directional or channeling) of a traffic circle, roundabout, or junction.



### Code 05

Gore - used when an area of land where two roadways diverge or converge. The area is bounded on two sides by the edges of the roadway. which join at the point of divergence or convergence. The direction of traffic must be the same on both of these roadways. The area includes shoulders or marked pavement if any, between the roadways. The third side is 60 meters (approximately 200 feet) from the point of divergence or convergence or, if any other road is within 70 meters (230 feet) of that point, a line 10 meters (33 feet) from the nearest edge of such road. Inclusions are areas at rest or exit ramps, areas at truck weight station entry or exit ramps, areas where two main roadways diverge or converge, areas where a ramp and another roadway or two ramps, diverge or converge or areas where a frontage road and another roadway or two frontage roads diverge or converge. Exclusions include islands for channelizing of vehicle movements and islands for pedestrian refuge. Used for areas not open to the public as a matter of right or custom for moving persons or property. This includes property beyond the roadside outside the boundaries of the trafficway. A portion of the trafficway closed for construction is not a trafficway and would be considered as outside trafficway.

### Code 06

**Outside Trafficway** – used for areas not open to the public as a matter of custom for moving persons or property. This includes property beyond the boundaries of the trafficway. This would include a portion of the trafficway closed for construction, and crashes that occur on private property such as parking lots.

### Code 07

In parking lane/zone – used when an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of roadway parking (e.g., legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should not be used during hours when parking is not permitted.

### Code 08

**Continuous left-turn lane** – used when a two-way, left-turn lane positioned between opposing straight through travel lanes.

### Code 09

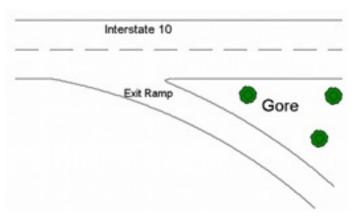
**Separator** – used when an area of a trafficway between parallel roads separating travel in the same direction or separating a frontage road from other roads. This maybe a physical barrier or a depressed, raised, flush, or vegetated area between roads.

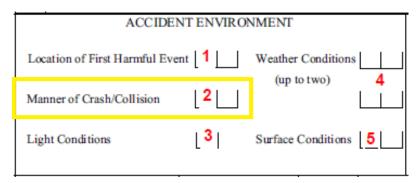
### Code 98

**Other** (explain in narrative) – used for other situation not covered with the existing attributes listed above.

### Code 99

**Unknown** – used when officer is unable to determine exactly where the crash for first harmful event occurred. Should rarely be used as even if the vehicle left the scene it is still possible to know where the crash occurred.





### 2 MANNER OF CRASH/COLLISION

**DEFINITION**: The identification of the manner in which two motor vehicles initially came together without regard to the direction of force. This data element refers only to crashes where the first harmful event involves a collision between two motor vehicles. If there is only one vehicle involved, then it is classified as a non-collision (single vehicle). Bicycle, pedestrian, and horse and buggy crashes would be considered as non-collision crashes because they are not considered units and should be recorded in the "**Non-motorist**" section, not in the "**Unit**" section.

**RATIONALE**: Important for evaluation of occupant injuries and structural defects. This data element can be used in conjunction with motor vehicle action, points of impact, and direction of travel to describe the crash.

### Code 01

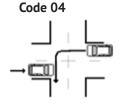
Non-collision (single vehicle) – used when the first harmful event is not an impact between two intransport motor vehicles. Bicycles and horse/buggy are not considered motor vehicles (see listing for non-motorists) so this attribute should be used when they are involved.



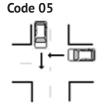
**Head-on (front to front)** – used when a collision occurs between the front end of one vehicle and the front end of another vehicle. The direction of travel for each vehicle should be opposite (N/S or E/W) and the points of impact must both be front.



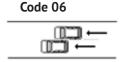
Rear-end (front to rear) – used when a collision occurs between the rear of one vehicle and the front of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must be front to back and direction of travel for both vehicles should be the same (N/N, S/S, E/E, W/W).



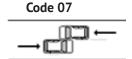
Angle (oncoming left turn) – used when one vehicle is making a left-hand turn and another vehicle is going straight. The direction of travel should be opposite (N/S, E/W with at least one vehicle making a left-hand turn).



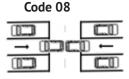
**Broadside (front to side)** – used when impact is made in the side of vehicle and the direction of travel is at the next compass point (N/W, N/E, S/W, S/E). One of the vehicles should have damage to the front of their vehicle and the other vehicle along the side.



**Sideswipe (same direction)** – used when the two vehicles were traveling in the same direction and the impact is made along the side of the vehicles.



Sideswipe (opposite direction) – used when the vehicles were traveling in opposite directions and the impact is made along the side of the vehicles.



Rear to rear – used when the rear of one vehicle hits the rear of another vehicle so that the points of impact both must be back. Usually occurs when one or more vehicles are backing up.



Rear to side – used when a collision occurs between the rear of one vehicle and the side of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must back for one and side for the other.

Code 98

**Other** (explain in narrative) – used when none of the above attributes fit the event and should be reported in the narrative in detail to help explain the situation.

Code 99

**Unknown** – used when it is not known such as the vehicle has left the scene and there are no witnesses to indicate what the vehicle was doing.

ACCIDEN	NT ENVIRO	NMENT	
Location of First Harmful Ever	nt [ 1	Weather Conditions	<u> </u>
Manner of Crash/Collision	[ <b>2</b>	(up to two)	
Light Conditions	[3]	Surface Conditions	5

### 3 LIGHT CONDITIONS

**DEFINITION**: The type/level of light that existed at the time of the motor vehicle crash (see Appendix G on page 108 for light condition table).

**RATIONALE**: Important for management/administration and evaluation. This is critical for prevention programs and engineering evaluations.

Code 1	<b>Daylight</b> – used when the incident
	is during the daylight hours.

Code 2 **Dusk** – used when the incident is during the transition period going from a daylight condition to the "dark of night." This is typically the 30-minute period after the sun sets.

Code 3 **Dawn** – used when the incident is during the transition period going from "dark of night" to a daylight condition. This is typically the 30-minute period before the sun rises.

Code 4 Dark, roadway lighted - used when there is no natural light exists but there is overhead man-made lighting on the roadway where the crash occurs. Lighted areas will generally include streets within cities or towns and some interchange areas. This does not include lighting from store fronts, houses, parking lots, etc.

Code 5 Dark, roadway not lighted - used when the condition is that there is no natural light and no overhead man-made lighting is present on the roadway where the crash occurred.

Code 6 Dark, unknown roadway lighting - used when the crash occurred at night but it is unknown about the roadway lighting.

Code 9 **Unknown** – used when it is unknown what hour the crash occurred so that a determination of lighting is not possible.

### **4 WEATHER CONDITION** (UP TO TWO MAY BE USED)

**DEFINITION**: The prevailing atmospheric conditions that existed at the time of the crash.

**RATIONALE**: Important for management/administration and evaluation. This is critical for prevention programs and engineering evaluations.

Code 01	Clear – used when the sky is clear
	but also includes partial cloudiness if
	sunlight is not diminished

sunlight is not diminished.

Code 02 **Cloudy** – used when the sky is "overcast" but may include partial cloudiness if light is diminished.

Code 03 Fog, smoke, smog – used when a natural or man-made condition causes reduced visibility.

Code 04 Freezing rain/drizzle – used when precipitation is falling as liquid (rain) and then freezing on the roadway.

Code 05 **Rain** – used when the precipitation falling is other than snow, hail, or sleet.

Code 06 **Sleet, hail** – used when the precipitation falling is ice.

Code 07 **Snow** – used when the precipitation falling is snow.

Code 08

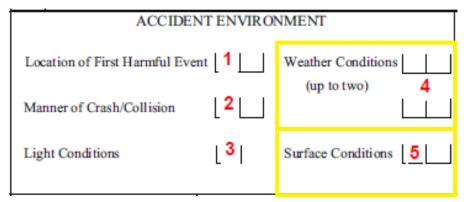
Blowing snow – used when snow that is falling and/or to snow that has fallen to the ground and is set aloft by wind. Use this code for blizzard like

conditions.

Code 09 Severe winds – used when winds traveling at an angle with respect to the travel lanes at velocities significant enough to create a risk

because vehicles could be diverted from their path or high-profile vehicles could be blown over. These are winds that are strong enough to affect

vehicle stability.



Code 10 Blowing sand, soil, dirt – used when particulate matter set aloft by winds creating a condition of reduced visibility that constitutes a hazard for vehicles operating in the area. This attribute should be used for "dust storms" but should not be used in conjunction with severe winds

unless the winds are affecting vehicle stability in addition to reducing visibility.

Code 98 Other (explain in narrative) - used when none of the above attributes fit

the condition.

Code 99 **Unknown** – used when it is not known

what the condition was at the time of the crash such as a hit and run crash with no witnesses or idea of what time

the crash occurred.

### 5 SURFACE CONDITION

**DEFINITION**: The roadway surface condition at the time and place of a crash.

**RATIONALE**: Important to identify and correct high wet-surface crash locations and provide information for setting coefficient of pavement friction standards. This is critical for prevention programs and engineering evaluations.

**Note**: For vehicles departing the trafficway prior to their critical events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical event, the roadway selected for classification is the one it is on before entering the junction. These conditions may have been present but did not necessarily contribute to the crash.

Dry - used when the road in normal Code 01 conditions. Code "Dry" when the road is

made of any material, including sand or dirt, if it is in normal conditions.

Code 02 Wet – used when the roadway surface

that is covered with water from rain or

melted snow.

Code 03

**Ice/Frost** – used when the roadway is covered with ice from freezing rain or water runoff that has pooled on the roadway and turned to ice.

Code 04 **Snow** – used when the roadway surface is covered with snow.

Code 05 **Slush** – used when the roadway surface is covered with melting snow.

Code 06 Mud, dirt - used when these substances were present on the surface of the roadway at the crash location, not the surface type of the

roadway by design.

Code 07 Water (standing or moving) - used when the roadway surface that is

covered with water and typically

localized.

Code 08 **Sand** – used when sand is on the roadway as a result of sand blown by wind or sand discharged on the

roadway by highway trucks.

Code 09 Oil – used when oil is on the roadway,

includes fuel spilled on the roadway.

Code 10 **Gravel** – used when gravel is present on the surface of the roadway at the

crash location, not the surface type of the roadway by design (not a gravel

road).

Other (explain in narrative) - used Code 98 when none of the above attributes fit

the situation.

**Unknown** – used when it is unknown Code 99

the condition of the surface at the time of the crash because it is unknown when the actual crash occurred and there are no witnesses.

ROADWAY CHARACTERIS	STICS
Major Contributing Circumstances	
Environment	<b>1</b>
Roadway	2
Type of Roadway Junction/Feature	[ <mark>3</mark> ]
FRA#: 4	

### ROADWAY CHARACTERISTICS SECTION

### **1 ENVIRONMENT**

**DEFINITION**: Apparent environmental conditions that may have contributed to the crash.

**RATIONALE**: Important to determine existence of unusual conditions that could be useful in determining the need for additional traffic control devices or geometric improvements.

**Code 01** None apparent – used when there

is no apparent environmental

circumstance.

**Code 02 Weather conditions** – used when there

is an indication that environmental conditions recorded in "Weather Conditions" field contributed to the crash. Ensure that if you put weather as a factor here, you make sure that you have something other than code 1 "Clear" or code 2 "Cloudy" as neither of these would have an adverse effect on

driving.

**Code 03 Visual obstruction** – used when an object that blocked the driver's sign

contributed to the crash such as a

bush, tree, etc.

**Code 04 Non-motorist action** – used when the actions of a pedestrian, pedal

cyclist, or other non-motorist such as persons riding on an animal, or in an animal drawn conveyance, or on a personal conveyance causes the driver to crash. Contact does not have to be

made for this attribute to be used.

bright, dazzling light impairs the driver's vision and can be from a motor vehicle (headlights or shining off of some part of the vehicle) or natural

light (sunlight, reflection from snow,

**Glare** – used when a very harsh

etc.)

Code 06

Animal in roadway – used when an animal is in the roadway and would include live wild or domestic animals but would exclude animals pulling a conveyance or ridden animals as they would be classified as non-motorist. Contact does not have to be made to

use this attribute.

Code 07

Severe crosswinds – used when there is a crosswind that is severe enough to impact driving. This is not related to weather conditions with strong winds but more of a natural element of the roadway (i.e., roadway is located at a dip in which the least amount of wind causes a rush of air to flow around the vehicle making it difficult to keep

Code 98

**Other** *(explain in narrative)* – used when none of the other attributes can

be used.

Code 99

**Unknown** – used when it is unknown.

### 2 ROADWAY

**DEFINITION**: Apparent condition of the road that may have contributed to the crash.

vehicle in control).

**RATIONALE**: Important to determine highway maintenance and possible engineering needs.

**Code 01 None apparent** – used when

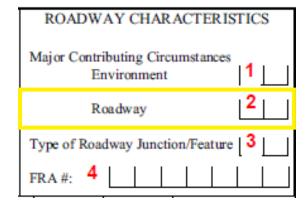
there is no indication there was a contributing circumstance in this crash

related to the road/roadway.

Code 02 Surface condition (e.g., wet, icy)

 used when the road surface condition was wet, icy, snow, slush, etc., that contributed to the crash. Note that weather condition and surface condition should also have an element other than clear or dry.

Code 05



Code 03

**Debris** – used when an object(s) in the roadway may have contributed to the crash, such as cardboard boxes, trash or vehicle parts, animal carcasses, nails, glass, barricades, piles of sand, or other materials that have fallen from another vehicle. Note: These would be objects in the roadway that are not large enough to block travel but could cause damage or a loss of control.

damage of a toss of control.

Code 04

**Ruts**, **holes**, **bumps** – used when there is an irregular roadway surface, either concave in the case of ruts and holes or convex in the case of bumps.

Code 05

Work zone (roadway-related) - used when an area of a trafficway where construction, maintenance, or utility work activities are identified by warning signs/signals/indicators, including those on transport devices (e.g., signs, flashing lights, channelizing devices, barriers, pavement markings, flagmen, warning signs, and arrow boards mounted on the vehicles in a mobile maintenance activity) that mark the beginning and end of a construction, maintenance, or utility work activity. It extends from the first warning sign, signal, or flashing lights to the "End Road Work" sign or the last traffic control device pertinent for that work activity. Work zones also include roadway sections where there is ongoing, moving (mobile) work activity such as lane line painting or roadside mowing only if the beginning of the ongoing, moving (mobile) work activity is designated by warning signs or signals. If this attribute is used, then the "Work Zone" field should also be completed.

Code 06

Slippery, loose or worn surfaces – used when the road surface is well used, often very smooth or shiny in appearance or a loose gravel roadway (i.e., slippery or old worn blacktop, newly paved surface, loose gravel roadway).

Code 07

**Obstruction in roadway** – used when there is a blockage in the roadway, such as that caused by a fallen tree or a large boulder.

Code 08

**Traffic control obscured** – used when the traffic control is covered or faded and would include lane markings faded, signs that are down or covered by foliage, etc.

Code 09

Shoulders (none, low, soft, high)

- used when the shoulders or the

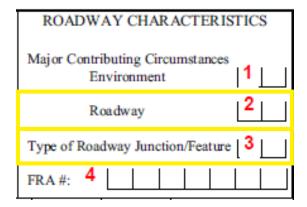
 used when the shoulders or the lack of having shoulders contributes to the crash. The shoulder is the part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped motor vehicles and for lateral support of the roadway structure.

Code 10

Non-highway work – used when there is maintenance or other types of work occurring near or in the trafficway but not related to the trafficway. This would not be a work zone situation, but an example would include work on replacing a pole or the wires/lines.

Code 11

**Traffic backup, prior crash** – used when the accumulation of traffic caused by vehicles slowing or stopping the traffic flow. Note this attribute is only used for prior traffic crashes. The distance from the prior crash does not matter, just its relevance to this crash.



### Code 12 Traffic backup, regular congestion -

used when the accumulation of traffic is caused by vehicles slowing or stopping the traffic flow and pertains to daily traffic volume congestion issues. This could occur any day of the week, but typically would occur during peak work travels periods in the morning and evening.

### Code 13 Traffic backup, prior nonrecurring

incident – used when accumulation of traffic caused by vehicles slowing or stopping the traffic flow and would include a funeral procession, a sporting event or other gathering, a parade, a traffic signal outage, etc.

Code 03

Code 14

Disabled vehicle - used when accumulation of traffic caused by vehicles slowing or stopping the traffic flow due to a stalled or disabled vehicle.

Code 98

Other – used when none of the above attributes cover the situation and needs to be clarified in the narrative.

Code 99

**Unknown** – used when the information is not known.

### 3 TYPE OF ROADWAY JUNCTION/FEATURE

**DEFINITION**: The coding of this data element is based on the location of the first harmful event of the crash; it identifies the crash's location with respect to presence in a junction or proximity to components typically in junction or interchange area.

**RATIONALE**: Important for site-specific safety studies to identify locations with actual or potential problems.

### A. NON-INTERSECTIONS

### Code 01

Non-junction/No special feature used when crashes where the first harmful event occurs outside an interchange area and does not occur in or related to a junction, ramp, rail grade crossing, crossover, or shareduse path or trail. This attribute

includes crashes that occur on a parking lot way (access road) at the connection of a parking aisle or on a straight piece of highway in which it is not yet meeting any other junction at the time of the crash.

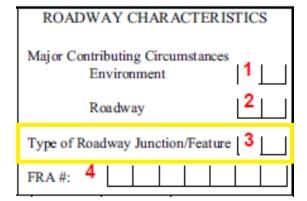
Code 02

Bike lanes – used when a part of the road that is marked off or separated for the use of bicyclists, not to be confused with bike trails that intersect with roadways as these would be coded 17 "Intersection related shared-use path or trail."

Railroad grade crossing – used when the first harmful event occurred at an intersection between a roadway and train tracks that cross each other at the same level (grade). Crashes occurring outside a railway grade crossing due to traffic congestion associated with a railway grade crossing are considered as code 1 "Non-junction."

Code 04

**Driveway access (within)** – used when the first harmful event occurs on a driveway access or involves a road vehicle entering or leaving by way of a driveway access where at least one traffic unit or non-motorist is physically on the driveway access within the trafficway. This attribute includes crashes occurring on sidewalks within the driveway access. A driveway is outside the trafficway and is typically not provided an official identification name or number. Examples: A car turning into a private residence driveway strikes a bicyclist riding on the sidewalk that crosses over the driveway access, or a tractortrailer backing out of a business entrance onto the trafficway, while partially on the driveway access, is struck by a car on the roadway.



### Code 05 Driveway access (related, not in) -

used when the first harmful event occurs on the trafficway but does not occur on a driveway access but results from an activity, behavior, or control related to the movement of traffic units onto or out of a driveway. Examples: A vehicle attempting to turn left into a driveway from the eastbound lanes is struck broadside by another vehicle traveling in the westbound lanes, or a vehicle that has just entered the trafficway from a driveway is struck in the rear before it can gain speed. Note: When a driveway access junction is within the boundaries of the intersection it should be coded as intersection related and have one of the codes from 10 through 18.

### Code 06 Alley - used when the first harmful

event occurs on a narrow street or passageway between or behind city or

residential buildings.

### Code 07 Crossover-related - used when the

crash is located in the area of the median of a divided trafficway where motor vehicles are permitted to cross the opposing lanes of traffic or do a U-turn. The crash has to be related to

the use of the crossover.

### Code 96 Other non-intersection (explain in

narrative) – used when none of the above attributes fit the description of the roadway.

### B. INTERSECTION-RELATED

**DEFINITION**: An intersection consists of two or more roadways that intersect at the same level.

**RATIONALE**: Important for site-specific safety studies to identify actual or potential safety problem locations.

### Code 10

**Roundabout** – used when there are circular traffic patterns in which yield control is used on all entries,

circulating vehicles have the right of way, pedestrian access is allowed only across the legs of the roundabout behind the yield line and circulation is counter-clockwise and passes to the right of the central island.

Code 11

**Traffic circle** – used when there is an intersection of roads where motor vehicles must travel around a circle to continue on the same road or leave on any intersecting road.

Code 12

Four-way intersection – used when there are two roadways cross or connect.

Code 13

T-intersection – used when an intersection where two roadways connect in a perpendicular manner and one roadway does not continue across the other roadway. The roadways form a "T."

Code 14

**Y-intersection** – used when an intersection where three roadways connect and none of the roadways continue across the other roadways. The roadways form a "Y."

Code 15

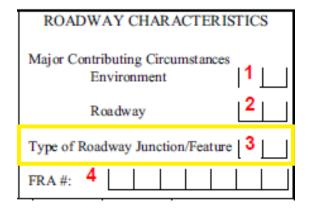
Five points or more - used when the intersection is where more than two roadways cross or connect.

Code 16

L-intersection – used when there is a two-armed intersection in which one road intersects with another road but neither road extends beyond the other road

Code 17

Shared-use path or trail - used when a bikeway physically separated from motorized vehicular traffic by an open space or barrier. Shared-used paths will also be used by pedestrians, skaters, wheelchairs, joggers, and other nonmotorized users.



Code 18

**Intersection with ramp** – used when an area that contains a crossing or connection of two or more roadways with one of the roadway being classified as a ramp.

Code 97

**Other intersection** *(explain in narrative)* – used when none of the other attributes above apply.

### C. INTERCHANGE-RELATED

**DEFINITION**: The coding of this data element is based on the location of the first harmful event of the crash. It identifies the crash's location with respect to presence in an interchange area.

**RATIONALE**: Important for site-specific safety studies to identify locations with actual or potential problems.

Code 20

On-ramp, merge area – used when the first harmful event occurs on the roadway in an interchange area on an auxiliary or speed-change lane that allows vehicles to accelerate to highway speeds before entering the through roadway.

Code 21

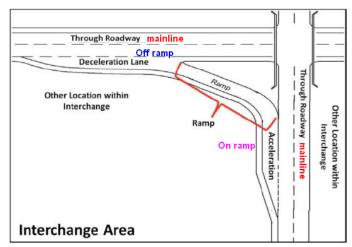
Off-ramp, diverge area – used when the first harmful event occurs on the roadway in an interchange area on an auxiliary or speed-change lane that allows vehicles to decelerate to safe speeds to negotiate a ramp without interrupting traffic flow on the through roadway existed.

Code 22

On-ramp (also known as an entrance ramp) – used when the crash occurs on an approach to a roadway.

Code 23

Off-ramp (also known as an exit ramp) – used when the crash occurs on an exit of a roadway.



Code 24

Mainline, between ramps – used when the crashes is in an interchange area and it does not occur:

- 1) on an entrance/exit ramp; or
- 2) in an intersection or related to an intersection or other junction.

Code 98

**Other interchange** *(explain in narrative)* – used when none of the other attributes apply.

Code 99

**Unknown** – used when the information is not known.

### 4 FRA NO.

**DEFINITION**: Each highway-railroad crossing is assigned a unique identifier – a U.S. DOT National Highway-Rail Crossing Inventory Program's inventory number, normally referred to as a Federal Railroad Administration number. The number consists of six digits followed by a letter and is posted on a metal plate at each crossing.

**RATIONALE**: Is used to identify crashes to the lowa DOT's Office of Rail Transportation for purposes of evaluating any safety features that may be needed.

**Note**: This will only be used when there is a crash between a train and a motor vehicle.

WORKZONE First Harmful Event (Crash) Yes No Activity Location Type Workers Present RELATED?

### FIRST HARMFUL EVENT/WORK ZONE-RELATED SECTION

### 1 FIRST HARMFUL EVENT (CRASH)

**DEFINITION**: The first event in the crash that caused damage or an injury. See note\*, none of these events would actually cause damage or injury but only are leading up to the collision event.

**RATIONALE**: Needed for uniformity in reported motor vehicle crash statistics, understanding crash causation, and identifying possible crash avoidance countermeasures.

Codes are listed for this field in "Sequence of **Events**"/"Most Harmful Event."

\*Note: Do not use the pre-crash events coded as 1 through 13, except for 8, in the "Sequence of Events/Most Harmful" field as these are only events that occurred prior to the event that created damage or injury.

### WORK 70NF-RFI ATFD

**DEFINITION**: A crash that occurs in or related to a construction, maintenance, or utility work zone, whether or not workers were actually present at the time of the crash. "Work zone-related" crashes may also include those involving motor vehicles slowed or stopped because of the work zone, even if the first harmful event occurred before the first warning sign. See Appendix F on page **107** to see a diagram of a work zone area.

**RATIONALE**: Important to assess the impact on traffic safety of various types of on-highway work activity, to evaluate traffic control plans used at work zones, and to make adjustments to traffic control for the safety of workers and the traveling public. This data element needs to be collected at the scene because work zones are temporary or moving operations that are not recorded in permanent road inventory files.

### **WORK ZONE**

**DEFINITION**: An area of a trafficway where construction, maintenance, or utility work activities are identified by warning signs/signals/indicators, including those on transport devices (e.g., signs, flashing lights, channelizing devices, barriers, pavement markings, flagmen, warning signs, and arrow boards mounted on the vehicles in a mobile maintenance activity) that mark the beginning and end of a construction, maintenance, or utility work activity. It extends from the first warning sign, signal, or flashing lights to the "End Road Work" sign or the last traffic control device pertinent for that work activity. Work zones also include roadway sections where there is ongoing, moving (mobile) work activity such as lane line painting or roadside mowing only if the beginning of the ongoing, moving (mobile) work activity is designated by warning signs or signals.

**RATIONALE**: Important to assess the impact on traffic safety of various types of on-highway work activity, to evaluate Traffic Control Plans used at work zones, and to make adjustments to Traffic Control Plans for the safety of workers and the traveling public. This data element needs to be collected at the scene because work zones are temporary or moving operations that are not recorded in permanent road inventory files.

### 2 WORK ZONE CRASH

**DEFINITION**: A motor vehicle traffic crash in which the first harmful event occurs within the boundaries of a work zone or on an approach to or exit from a work zone, resulting from an activity, behavior, or control related to the movement of the traffic units through the work zone.

Select Yes or No in this field.

### **3 WORK ZONE ACTIVITY**

Code 01 **Construction** – used when there is

> long-term stationary construction such as building a new bridge, adding travel lanes to the roadway, extending an existing trafficway, etc. Highway construction includes construction of appurtenances such as quardrails or ditches, surveying activity, installation of utilities within the right of way, etc.

Code 02 Maintenance – used when there is work activities, including moving work activities, such as striping the roadway, median, and roadside grass mowing/landscaping, pothole repair, snowplowing, etc., where there are

warning signs or signals marking the beginning of the moving work area.

Code 03 Utility - used when there is a shortterm stationary work such as repairing/ maintaining electric, gas, water lines, or traffic signals. The utility company

must perform the work.

Code 98 **Other** (explain in narrative) – used when none of the above attributes

describe the activity.

Code 99 **Unknown** – used when the information is not known because an officer did not investigate at the scene.

	ORKZONE Yes No C2	Activity 1	Location Type  [4   5	Workers Present
--	-------------------	------------	-----------------------	-----------------

### **4** LOCATION

**DEFINITION**: The exact location in a construction, maintenance, or utility work zone.

**RATIONALE**: Important to assess the impact on traffic safety of various types of on-highway work activity, to evaluate traffic control plans used at work zones, and to make adjustments to traffic control plans for the safety of workers and the traveling public. This data element needs to be collected at the scene because work zones are temporary or moving operations that are not recorded in permanent road inventory files.

### Code 01

Before work zone warning sign – used when occurring in an area before the start of the actual marked work zone. This attribute applies when the "First Harmful Event" of the crash occurs outside (before) the first warning sign, signal, or indicator marking the start of the work zone but is related to the movement of the traffic units through or entry into the work zone area.

### Code 02

Advance warning area – used when in the area within a work zone where motorists are warned of changes in the flow of traffic as a result of the work zone. This attribute applies when the first harmful event of the crash occurs inside the work zone (after) the first warning sign, signal, or indicator marking the start of the work zone but before any change in the flow of traffic by restriction, re-routing, or closure of travel lanes. Not all work zones will have advance warning areas.

### Code 03

Transition area – used when in the area within a work zone where motorists are transitioned from the normal flow of traffic as a result of the work zone. This attribute applies when the first harmful event of the crash occurs inside the work zone in the area where the flow of traffic is modified by restriction, re-routing, or closure of travel lanes before entering the location where the work activity is taking place. Not all work zones will have transition areas.

### Code 04

Within or adjacent to work activity – used when located adjacent to actual work area, whether workers and equipment were present or not. Note: This is the area within a work zone where the work activity associated with the marked work zone takes place. This attribute applies when the first harmful event of the crash occurs inside the work zone in the area where the work activity is taking place. All work zones will have activity areas.

### Code 05

**Termination area** – used when in the area within a work zone where motorists are transitioned from the modified flow of traffic in the work zone back to the normal flow of traffic for the trafficway. This attribute applies when the first harmful event of the crash occurs inside the work zone in the area where motorists are transitioned back to the normal flow of traffic or outside the work zone (i.e., beyond the "End Road Work" sign if present) but is related to the movement of the traffic units exiting the work zone.

### Code 98

**Other** *(explain in narrative)* – used when none of the above attributes apply.

### Code 99

**Unknown** – used when this information is unknown.

First Harmful Event (Crash)	WORKZONE RELATED?	Yes No	Activity 3	Location 4	Type	Workers Present
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### **5 TYPE**

**DEFINITION**: Work zone includes lane closure; lane shift/ crossover; work on shoulder or median; intermittent or moving related to a construction, maintenance, or utility work zone, whether or not workers were actually present at the time of the crash.

**RATIONALE**: Important to assess the impact on traffic safety of various types of on-highway work activity, to evaluate traffic control plans used at work zones, and to make adjustments to traffic control plans for the safety of workers and the traveling public. This data element needs to be collected at the scene because work zones are temporary or moving operations that are not recorded in permanent road inventory files.

### Code 01

Lane closure – used when in a work zone where the work activity results in the closure of a travel lane in one direction resulting in the re-routing of vehicles to a different lane for travel in that direction.

### Code 02

Lane switch/crossover – used when in a work zone where the work activity results in the re-routing of vehicles through a lane shift where the number of lanes is maintained and those lanes are shifted several feet to one side to enable more workspace by using the shoulder to carry traffic.

### Code 03

Work on shoulder or median – used when in a work zone where the work activity is occurring on the shoulder or median adjacent to the travel lanes. This type of work zone would not require a closure of a lane or shift of vehicle travel.

### Code 04

Intermittent or moving work – used when in a work zone where the work activity involves the construction vehicles traveling (moving) along the trafficway and either stopping periodically to perform work (e.g., pothole patching) or performing slowmoving operations (e.g., pavement marking convoys).

### Code 98

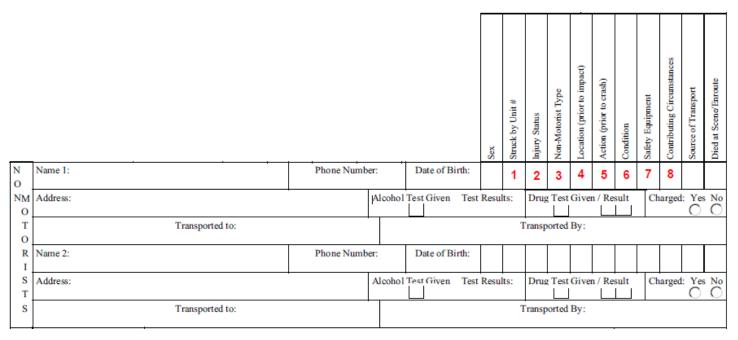
**Other** (explain in narrative) – used when none of the above apply.

### Code 99

**Unknown** – used when information is unknown.

### **6 WORKERS PRESENT**

Code 01	Workers only
Code 02	No workers present
Code 03	Workers and officer present
Code 04	Law enforcement present only
Code 05	No one present
Code 98	Other (explain in narrative)
Code 99	Unknown



### NON-MOTORIST SECTION

**DEFINITION**: This section is to be used for all non-motorists who have been injured or died.

**RATIONALE**: Important for management/administration and evaluation. Needed to determine number and type of non-motorists injured or killed in crashes.

Fields that need to be completed and instructions to do so are found elsewhere in this manual.

- Name (page 7, Driver information)
- Address (page 7, Driver information)
- Phone number
- Date of birth (page 7, Driver information)
- Sex (page 7, Driver information)
- Transported to (page 56, Injury section)
- Transported by (page 56, Injury section)

Refer to earlier sections on how to complete these fields

- Alcohol test given (page 9, Driver information)
- Test results (page 9, Driver information)
- Drug test given (page 9, Driver information)
- Drug test results (page 9, Driver information)
- Injury status (page 49, Injury section)
- Source of transport (page 55, Injury section)
- Died at scene/enroute (page 56, Injury section)

					Sex	Struck by Unit #	Injury Status	Non-Motorist Type	Location (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute
N O	Name 1:	Phone Number	:	Date of Birth:		1	2	3	4	5	6	7	8		
NM O	Address:	P	Alcoho1	Test Given Test	Resu	lts:	Drug	Test	Giver	n / Re	sult	Ch	arged	Ye.	s No
T O	Transported to:	•				7	ransp	orted	By:						
R I	Name 2:	Phone Number	:	Date of Birth:											
S	Address:	A	Alcoho1	Test Given Test	Resu	lts:	Drug	Test	Giver	n / Re	sult	Ch	arged	Ye	s No
S	Transported to:					7	ransp	orted	By:						

#### 1 STRUCK BY UNIT NUMBER

**DEFINITION**: Number assigned to identify the motor vehicle that struck the non-motorist in the crash.

**RATIONALE**: Used for tracking; important information to have when multiple motor vehicles are involved in the crash.

Enter the unit number of the vehicle that actually hit the non-motorist in "**Struck by Unit No.**" field.

#### 2 INJURY STATUS

Same options as for motorists - see page 49.

#### **3 NON-MOTORIST TYPE**

**DEFINITION**: A non-motorist is someone who is not in or a part of a motor vehicle such as a pedestrian, bicyclist, horse and buggy, etc.

**RATIONALE**: Need to know person type for classification purposes to evaluate specific countermeasures designed for specific people.

**Code 01 Pedestrian** – when the person is not an occupant of a vehicle and is

hiking, sitting, or lying.

Code 02 Pedalcyclist (bicycle, tricycle, unicycle,

**pedal car)** – used when it is a one, two, or three- wheeled, nonmotorized cycle or a vehicle that has four wheels but is

standing, walking, running, jogging,

propelled by pedal power.

Code 03 Pedalcycle passenger – used when

the injured party was riding on a two or three-wheeled, nonmotorized cycle or a vehicle that has four wheels but is propelled by pedal power but was not the one using the pedals. Code 04

Code 05

Code 06

Code 98

Code 99

In or on building – used when the person injured is inside of a building or on a building such as a loading dock outside of the building area.

Horse and buggy/Animal conveyance – used when the person injured is riding on an animal or in an animal-powered vehicle.

Skater, personal conveyance, and wheelchairs – used when the person injured was on a skate board, on roller skates, in a wheelchair whether motorized or not, or was on a personal conveyance such as a Segway.

**Other non-motorist** *(explain in narrative)* – used when the injured party does not fit any of the above attributes.

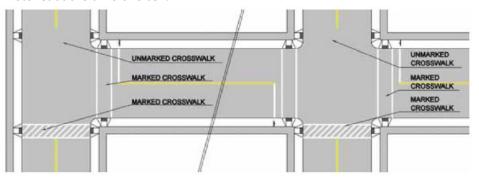
**Unknown** – used when information is unknown.

					Sex	Struck by Unit #	Injury Status	Non-Motorist Type	Location (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute
N O	Name 1:	Phone Number:		Date of Birth:		1	2	3	4	5	6	7	8		
NM O	Address:	P	lcohol	Test Given Test	Resu	lts:	Drug	Test	Giver	ı / Re	sult	Ch	arged	: Ye	No C
T	Transported to:					Т	ransp	orted	By:						
R	Name 2:	Phone Number:	:	Date of Birth:											
S	Address:	A	dcohol	Test Given Test	Resu	lts:	Drug	Test	Giver	n / Re	sult	Ch	arged	: Ye	No C
S	Transported to:					Т	`ransp	orted	By:			•			

#### **4** LOCATION (PRIOR TO IMPACT)

**DEFINITION**: The location of the non-motorist with respect to the roadway at the time of crash.

**RATIONALE**: The development of effective roadway design and operation, education, and enforcement measures to accommodate pedestrians and cyclists and prevent crashes with motor vehicles is enhanced by the collection of the location of the non-motorist at the time of crash.



#### A. INTERSECTION

# Code 01 Within marked crosswalk – used when the portion of the roadway that is distinctly indicated for pedestrian crossing by lines or other markings on

the surface of the roadway.

Code 02 Within unmarked crosswalk – used

when the portion of the roadway at an intersection that connects curbs but does not have the lines or markings on

the surface of the roadway.

Code 03 Not within crosswalk – used when a person in a travel lane that is not using an available crosswalk or there

using an available crosswalk or there is not a crosswalk at this location.

Code 04 Unknown location – used when a

person is known to be at an intersection but no other information

is known.

#### B. NON-INTERSECTION (MIDBLOCK)

Code 05 Within marked crossw

Within marked crosswalk – used when a person is in the portion of the roadway, not at an intersection, that is distinctly indicated for pedestrian crossing by lines or other markings on

the surface of the roadway.

Code 06 Within unmarked crosswalk – used

when a person is in the portion of the roadway, not at an intersection that is to be used as a crosswalk for pedestrian crossing that do not have lines or markings on the surface of the

roadway.

**Code 07 Not within crosswalk** – used when a person is in the portion of the

roadway, not at an intersection, and not in an area that is distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway. (i.e., there is a midblock crosswalk, but the person is not using it or there is no crosswalk at

this location).

						Sex	Struck by Unit #	Injury Status	Non-Motonist Type	Location (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute
N	Name 1:		Phone Number	:	Date of Birth:		1	2	3	4	5	6	7	8		
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NM	Address:			Alcohol	Test Given Tes	Resu	lts:	Drug	Test	Criver	n/Re	sult	Ch	arged	: Ye	s No
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T	Tra	ansported to:					1	ransp	orted	By:						
0						_										
R	Name 2:		Phone Number	:	Date of Birth:											l
I									-	~.			$\Box$	$\coprod$		
S	Address:		1	Alcohol	Test Given Test	Resu	lts:	Drug	Test	Give	n/Re	sult	Ch	arged	: Ye	s No
T				_				<u> </u>	Ш				—		$\cup$	$\cup$
S	Tra	ansported to:					Т	ransp	orted	By:						
	<del></del>															

#### 5 ACTION (PRIOR TO CRASH)

**DEFINITION**: The action of the non-motorist immediately prior to the crash.

**RATIONALE**: The development of effective roadway design and operation, education, and enforcement measures to accommodate pedestrians and bicyclists and prevent crashes with motor vehicles is enhanced by the collection of the actions and circumstances prior to the crash.

Code 01 Entering or crossing roadway – used when the non-motorist had entered the roadway or was moving across the travel lanes with the goal of crossing

the roadway.

Code 02 Waiting to cross roadway – used when the non-motorist is near the curb or the roadway edge waiting to cross a

roadway anywhere along the roadway.

Code 03 Going to/coming from school – used when persons are age 5-18 or an adult

supervising persons age 5-18 going to or from a school for any reason. Examples are going to a school dance, sports practice, or extracurricular activities.

Code 04

Working in trafficway – used when the non-motorist was in the roadway but not crossing it. Examples include conducting maintenance or as part of an official response to an incident, such as a firefighter moving between an emergency vehicle and a crash involved vehicle.

Code 05 Approaching or leaving vehicle – used when a person has already left the vehicle and is walking away from it

or is approaching a vehicle

**Code 06 Entering/exiting vehicle** – used when a person is in the process of entering

or has just gotten out of a vehicle.

Code 07 Playing on or working on vehicle –

used when a person is playing on or working on a vehicle. This would be on the outside of the vehicle.

on the outside of the femete.

Code 08 Disabled vehicle-related/pushing

**vehicle** – used when the pedestrian was outside of a disabled vehicle for any reason and includes pushing

the vehicle.

						Sex	Struck by Unit #	Injury Status	Non-Motorist Type	ocation (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute
N	Name 1:	•	Phone Numbe	r:	Date of Birth:	0.	1	2	3	4	5	6	7	8	<u> </u>	_
o									_				<u> </u>	igsquare		
NM	Address:			Alcoho	l Test Given Test	Resu	lts:	Drug	Test	Give	n/Re	sult	Ch	arged	: Yes	s No
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O																
R	Name 2:		Phone Numbe	r:	Date of Birth:											
I																
S	Address:			Alcoho	Test Given Test	Resu	lts:	Drug	Test	Give	n / Re	sult	Ch	arged	: Yes	s No
T									Ш			Ш			$\circ$	0
S		Transported to:					Т	ransp	orted	By:						

#### A. MOVEMENT

#### Code 10

Along roadway with traffic – used when the non-motorist was not on a sidewalk and was moving in the same direction of traffic, either in the travel lane or adjacent to it (e.g., jogging or walking on shoulder or roadside).

#### Code 11

Along roadway against traffic – used when the non-motorist was not on a sidewalk and was moving in the opposite direction of traffic (facing oncoming vehicles), either in the travel lane or adjacent to it.

#### Code 12

Along roadway (direction unknown) – used when the non-motorist was not on a sidewalk and was moving in or adjacent to a travel lane but their direction with respect to the flow of traffic is unknown.

#### Code 13

On shoulder/median – used when the non-motorist was not in the roadway but in an area immediately adjacent to the roadway, such as a median or a shoulder, but not a sidewalk.

#### Code 14

**On sidewalk** – used when the nonmotorist was moving (not standing) on the sidewalk.

#### Code 98

**Other** (explain in narrative) – used when none of the attributes reflect the action

#### Code 99 Unknown

#### **6** CONDITION

**DEFINITION**: This element attempts to identify any physical impairment to this non-motorist which may have contributed to the cause of the crash.

**RATIONALE**: Important for evaluating the effect that fatigue, medications/alcohol/drugs, or other conditions have on the crash.

See <u>"Driver Condition"</u> on <u>page 24-25</u> for the code definitions, as the attributes used here are the same.

						Sex	Struck by Unit #	Injury Status	Non-Motorist Type	Location (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute
N	Name 1:		Phone Numbe	r:	Date of Birth:		1	2	3	4	5	6	7	8		
O												Щ.	H-			
NM	Address:			Alcohol	Test Given Test	Resu	lts:	Drug	Test	Given	/Re	sult	Ch	arged	: Ye	s No
O												Ш_	Ш		$\cup$	0
T		Transported to:					7	`ransp	orted	By:						
O																
R	Name 2:		Phone Numbe	r:	Date of Birth:											l
I																l
S	Address:	-		Alcoho1	Test Given Test	Resu	lts:	Drug	Test	Given	/ Re	sult	Ch	arged	: Ye	s No
Т					1 1						1				0	O
S		Transported to:	-				7	ransp	orted	Bv:						
		ransported to.						тапър	orica	Δ,						

#### **7 SAFETY EQUIPMENT**

**DEFINITION**: This element indicates the safety equipment that was used by the non-motorist involved in the crash.

**RATIONALE**: Used to evaluate effectiveness of non-motorist safety equipment. It is important to calculate usage statistics for the development and evaluation of the effectiveness of educational countermeasures.

Code 01 Not applicable – used when no safety

equipment applies to the situation.

**Code 02 None** – used when the non-motorist was not wearing or carrying any type

of safety equipment.

Code 03

Helmet – used when the non-motorist was wearing a safety helmet. The non-motorist does not have to be riding a bicycle at the time of the crash to use this attribute. Use code 98 "Other" for a non-motorist wearing a motorcycle

helmet.

Code 04 Reflective clothing – used when the

non-motorist was wearing or carrying some type of reflective equipment. The emphasis is on the reflective property of the equipment and does not include devices that give off light under their own power such as flashlights. The equipment can be reflective tape affixed to regular clothing, special reflective clothing, a reflective device that is worn or a reflective devise that is carried. It can be made by the nonmotorized and does not have to be specially designed as a safety device.

Code 05

**Lighting** – used when a non-motorist uses a light on his/her person or on a pedalcycle or personal conveyance for safety purposes, to include flashlights.

Code 06

**Protective pads** – used when the nonmotorist was wearing padded, shaped attachments to protect specific areas of the body (elbows, knees, shins, etc.) from injury.

Code 07

**Multiple equipment** (explain in narrative) – used when the non-motorist is using several of the attributes listed above.

Code 98

**Other** (explain in narrative) – used when none of the above attributes fit the situation.

Code 99

**Unknown** – used when this information is not known.

							Sex	Struck by Unit #	Injury Status	Non-Motonist Type	Location (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute	
N Na	nme 1:		Phone Numbe	r:	Date of B	irth:		1	2	3	4	5	6	7	8			
NM Ad	idress:			Alcohol	Test Given	Test F	esult	s:	Drug	Test	Giver	ı / Re	sult	Ch	arged	: Ye	s No	
T O		Transported to:						Tı	ranspo	orted	By:			•				
	ame 2:		Phone Numbe	r:	Date of B	irth:												
	ddress:			Alcohol	Test Given	Test F	lesult	s:	Drug	Test	Giver	ı / Re	sult	Ch	arged	: Ye	s No	
S		Transported to:						Tı	ranspo	orted	By:							
<b>DEF</b> mote	FINITION: The corist that may a element is b	NG CIRCUMSTANCES e actions/circumstances of the have contributed to the crash ased on the judgment of the ler investigating the crash.	h. This	C	ode 05			Inat – us talk eng	ed ing,	whe eat	n th ing,	ne no or to	on-n extir	noto	rist	was		
desi mea prev	gn and operates sures to accor vent crashes w	e development of effective roa tion, education, and enforcem mmodate pedestrians and cyc vith motor vehicles is enhance actions and circumstances at the	ent lists, and ed by the	Code 06  Riding/walking on wrong s  - used when the non-moto walking or riding in a direct than required by statute.						noto lirec	otorist was rection other							
the	crash.			C	ode 07											<b>, signals,</b> non-		
Code	e 01	<b>No improper action</b> – used v is an indication that the non did nothing to contribute to	-motorist	<b>or officer</b> – used when the motorist fails to obey any t signal, or officer.								gn,						
Code	e 02	Not visible (dark clothing) – when the non-motorist was visible to the motorist becau non-motorist wearing dark of	not Ise of lothing	Code 08  Failure to yield right of way when there is a right of way by the non-motorist by failin a traffic control device.						y vio	olati	ion						
		or there was insufficient ligh see them.	iting to	C	ode 09			Fail requ										
Code	e 03	nen the ssed t a	motorist has a lightening dev fails to use it when light is refor easy visibility.					levis	e bı									
Code	e 04	lking. en a non, into the st whose s not rist walked,	C	ode 10			- us not nee slov or o	sed hav hav ded v mo the	where the (e.govin slower) (e.govin slower) (e.govin slower) (e.govin slower)	en the ne re g., ho ng si ow-n	ne no quir orse gnag novi	on-n ed e and ge o ng v	noto equi bug n ba ehio	prist pme ggy i ack c cles	doe nt need of bu	ds uggy		

								Sex	Struck by Unit #	Injury Status	Non-Motorist Type	Location (prior to impact)	Action (prior to crash)	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at Scene/Enroute
N O	Name 1:		Phone Number	er;	T	Date of B	irth:		1	2	3	4	5	6	7	8		
NM O	Address:	-		Alcoho	17	est Given	Test	Resu	lts:	Drug	Test	Giver	ı / Re	sult	Ch	arged	: Yes	No C
T		Transported to:							7	Γransp	orted	By:						
O R	Name 2:		Phone Number	er:	T	Date of B	irth:											
I S	Address:			Alcoho	17	est Given	Test	Resu	lts:	Drug	Test	Giver	ı / Res	sult	Ch	arged	: Yes	No No
T S		Transported to:		$\top$					7	Fransp	orted	By:					0	О
Code 12 Improper turn/merge – used when the non-motorist made an improper turn or improperly merged into traffic.  Code 13 Improper passing – used when the			nproper nto traffic. en the			ode 18			– u an a tı	ised exit raffic	whe or e way	en th entry /.	e no way	on-n / im	noto prop	rist perly	uses fro	s m
Co	ode 14	Passing with insufficient dist or inadequate visibility – use the non-motorist passed with allowing enough distance ar	ance ed when hout			ode 19			the lyir roa	nor ng, w idwa	n-mo vorki y.	otori ing,	st is or p	sta layir	ndin ng ir	ig, si n the	ttin	g,
6	. J. 4F	vehicle being passed or faile adequate visibility to make t	ed to have he pass.	Code 20  Disabled vehicle-related – us the non-motorist is working of pushing, or leaving/approach disabled vehicle.					g on	on,								
Co	ode 15	when the non-motorist is ma	roper/Erratic lane changing – used not the non-motorist is making roper or erratic lane changes.				Code 21 Entering/exiting parked/standing vehicle – used when the non-mo is entering a vehicle but is not in					oto						
<b>Failure to remain in proper lane</b> – used when the non-motorist does not stay in proper lane but crosses over the lane and back.			not stay						the the tha	veh veh t is	icle icle park	or h and ed, o	ias j is o or th	ust ( utsi e er	gott de a ngin	en o veh e is	ut o nicle	of e
Co	ode 17	Operating in a reckless, errat careless, negligent manner - when the non-motorist is op transport vehicle other than	- used erating a a motor			ode 98			wh des	en n scrib	one e th	of t e sit	he a uati	bov on.	e at	tribu	ıtes	
		vehicle in a reckless, erratic, or negligent manner.	careless,		Co	de 99				<mark>knov</mark> not k			d w	hen	the	Charged  Cha		tion

N O P	If Property other than vehicles damaged explain.	1 Object Damaged			Estimate of Damage \$ 2
N O V p	Owner's Last Name 3	First Name 3	Middle	Name 3	Phone Number 3
E E	Address 4	City 4	State ZIP C		or tenant notified? = No 9 = Unknown 5
I T	II Floberty outer man	Object Damaged			Estimate of Damage \$
U L I	Owner's Last Name	First Name	Middle	e Name	Phone Number
A M R G		City	State ZIP C		or tenant notified? = No 9 = Unknown

#### PROPERTY DAMAGE SECTION

The "Property damage" section is to be completed only if there is property damage to objects other than motor vehicles, attachments to vehicles, and land. Property damage includes injury or death of domestic animals, but not injury or death of nondomestic animals such as deer. This does not include personal items in the vehicle. If there was an attachment to a vehicle, this amount should be included with the estimated cost of repair under the "Owner" section.

#### 1 PROPERTY DAMAGE

"If property other than motor vehicles damaged explain," enter the name of the item damaged in the "Object Damaged" field.

#### **2 ESTIMATE OF DAMAGE**

Enter the estimated cost to the nearest dollar in the "Estimate of Damage" field.

#### **3 OWNER'S NAME**

Enter the owner's name in the "Owner's Last Name," "First Name," and "Middle Name" fields. Also enter the owner's phone number in the "Phone Number" field.

#### **4** ADDRESS

Enter the street address of the owner or the tenant in "Address," "City," "State," and "ZIP Code" fields.

**Note**: When only one owner has property damage to several objects, the required information may be entered on one report. When more than one owner has property damage, each owner's damage information must be entered. The Supplemental Investigating Officer's Report of Motor Vehicle Crash form may be used for the additional information.

#### **5 OWNER NOTIFIED**

Place the appropriate code in the "Was owner or tenant notified?" field to show if the owner or tenant of the damaged property was notified.

Code 1	Yes
Code 2	No
Code 9	Unknown

W	Last Name 1	First Name 1	2 Address	City 2	State 2	ZIP Code 2	Phone Number: 3
T	Last Name	First Name	Address	City	State	ZIP Code	Phone Number:
E	Last Name	First Name	Address	City	State	ZIP Code	Phone Number:
S	Last Name	First Name	Address	City	State	ZIP Code	Phone Number:

#### **WITNESS**

The witness block is used to record information concerning witnesses who saw the crash occur.

#### 1 NAME

Enter the witness' full name in the "Last Name" and "First Name" fields.

#### **2 ADDRESS**

Enter the witness' complete address in the "Address," "City," "State," and "ZIP Code" fields.

#### **3 PHONE NUMBER**

Enter the witness' complete phone number in the "Phone Number" field.

Is This a Secondary Crash?: Type of Primary Incident:	2		Roadway Clearance Date: 3	Incident Clearance Date: 6
Signature of Officer:	Badge Number:	Time Officer Notified of Accident: Hrs.	Roadway Clearance Time: 4	Incident Clearance Time: 7
Name of Agency:	Date of Report:	Time Officer Arrived at Scene: Hrs.	Total Roadway Clearance Time: 5	Total Incident Clearance Time: 8

#### SECONDARY CRASH

The "Secondary Crash" block is used to enter information concerning Secondary Crashes such as type and clearance times.

A "**Secondary Crash**" is defined as: A motor vehicle traffic crash within a traffic incident scene or within a traffic queue in either direction resulting from a prior traffic incident.

The original incident does not have to be a collision. It could be a disabled motorist, vehicles on the side of the road, traffic stop, or any other unusual circumstance related to traffic backup or change in traffic flow as long as it played a role in distracting the driver or the causation in the collision. If the queue is normal, everyday occurrence without an original unplanned incident then a crash is not secondary.

#### 1 IS THIS A SECONDARY CRASH?

If this is a "Secondary Crash" mark "Y". If not, mark "N".

#### 2 TYPE OF PRIMARY INCIDENT

Code 5

**DEFINITION:** This element identifies the type of Primary Incident that this crash is connected to.

**RATIONALE:** The information this data element provides is used to classify the primary incident as being a motor vehicle traffic crash or not, based on the location where it occurred. Collecting this data on the crash report allows research and resources to be targeted and countermeasures to be evaluated based on the characteristics of the crash.

Code 1	<b>Vehicle crash</b> – This crash is subsequent to a previous crash.
Code 2	<b>Traffic Stop</b> – This crash is possibly due to slow traffic near a traffic stop.
Code 3	Roadway debris - This crash is in traffic that has slowed due to debris in the roadway that is not large enough to block travel but could cause damage or a loss of control. Items such as dislodged cargo, parts from a vehicle, tire tread, ladders, or animal carcasses.
Code 4	<b>Motorist assist</b> – This crash is in traffic that has slowed down near a motorist assist.

**Other –** *Explain in narrative* 

#### **3 ROADWAY CLEARANCE DATE**

The date of first confirmation that all lanes are available for traffic flow.

#### **4** ROADWAY CLEARANCE TIME

The time of first confirmation that all lanes are available for traffic flow.

#### **5** TOTAL ROADWAY CLEARANCE TIME

This is the total time from when the first officer is notified of the crash until the Roadway Clearance Time.

#### **6 INCIDENT CLEARANCE DATE**

This is the date when the last responder has left the scene.

#### 7 INCIDENT CLEARANCE TIME

This is the time that the last responder has left the scene.

#### **8 TOTAL CLEARANCE TIME**

This is the total time from when the first officer is notified of the crash until the Incident Clearance Time.

Signature of Officer:	Badge Number: 2	Time Officer Notified of Accident:  3 Hrs.		
Name of Agency: 4	Date of Report: 5	Time Officer Arrived at Scene: 6 Hrs.		
Report Reviewed By: 7	Date of Review: 8	Investigation made at scene? Y N 9	T.I. #: 10	Other Technical Investigating Agency:

#### **OFFICER SECTION**

The "Officer block" is used to enter information concerning the officer completing the report and other data such as when the officer arrived.

#### **1 SIGNATURE OFFICER**

Enter the officer's title and name in the "**Signature of Officer**" field (e.g., Patrolman John Doe, Trooper Jane Doe, or Deputy Joe Schmoe).

#### **2 BADGE NUMBER**

Enter the officer's badge number in the "**Badge Number**" field. Troopers must enter their badge number and the post to which they are assigned (e.g., 58-2).

#### **3** TIME OFFICER NOTIFIED OF ACCIDENT

Enter the time (using 24-hour time) the officer was notified of the crash in the "Time Officer Notified of Accident" field.

#### **4** NAME OF AGENCY

Enter the name of the officer's department in the "Name of Agency" field (e.g., Ankeny Police Department).

#### **5 DATE OF REPORT**

Enter the date the report was written in the "**Date of Report**" using the MM/DD/YYYY format.

#### **6** TIME OFFICER ARRIVED AT SCENE

Enter the time (using 24-hour time) the officer arrived at the crash in the "Time Officer Arrived at Scene" field.

#### **7 REPORT REVIEWED BY**

Enter the name of the person that reviewed the report in the "Report Reviewed By" field.

#### **8** DATE OF REVIEW

Enter the date the report was reviewed in the "**Date of Review**" field using the MM/DD/YYYY format

#### 9 INVESTIGATION MADE AT SCENE?

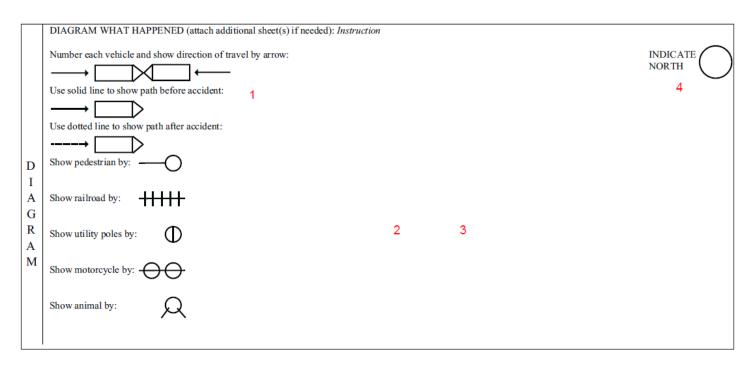
Mark the appropriate circle, Y for Yes or N for No, to indicate if an investigation was made at the scene in the "Investigation made at scene?" field.

#### 10 T.I. CASE #

If another agency is doing a technical investigation on this crash, enter that agency's case number for the crash in the "T.I. No." field.

## 11 OTHER TECHNICAL INVESTIGATING AGENCY

If another agency is doing a technical investigation on this crash, enter the name and number of the agency in the "Other Technical Investigating Agency" field.



#### **DIAGRAM SECTION**

The diagram space is used to draw a picture that visually details how the crash occurred. A diagram is required. Just because the vehicles have moved does not mean you can not create a diagram based on your investigation.

#### 1 OUTLINE ROADWAY

Draw an outline of the roadway or draw the roadway in any manner necessary to adequately depict the crash scene in the "**Diagram What Happened**" field. The symbols to use are show on the diagram above.

#### 2 LABEL ROAD NAMES

Enter the number(s) or name(s) of the road(s), street(s), or highway(s) near where you draw the diagram.

#### **3 NUMBER EACH VEHICLE**

Number each vehicle according to the numbers assigned on page 1 of the report form ("unit 1," "unit 2," "unit 3," and so on) and show the direction of travel by using arrows. Use a solid line to show a path before the crash and a dotted line after the crash.

#### **4** INDICATE NORTH

Show north by an arrow in the circle, which is located in the upper right corner labeled "**Indicate North.**" Diagram the crash with north at the top of the report whenever possible.

#### NARRATIVE SECTION

The "Narrative" section may be used to provide additional information whenever other portions of the report lack sufficient space to provide adequate explanations. Use the "Describe what happened" field and refer to each vehicle by number ("unit 1," "unit 3," and such).

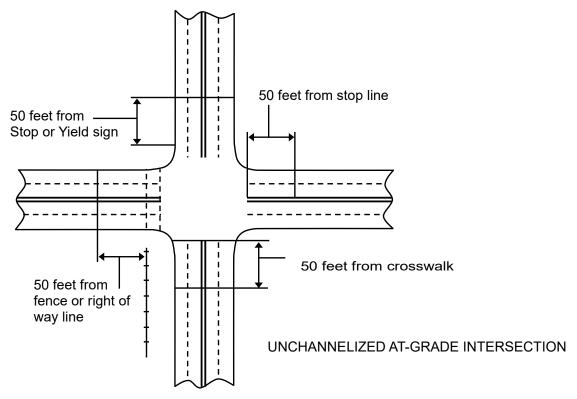
	Describe what happened (attach additional sheet(s) if needed)
NT.	
N A	
R	
R	
A T	
I	
V	
E	

Describe what happened completely, use additional forms if necessary. The description must give the main events of the crash; clearly state the action of vehicles and pedestrians involved. Information needed to clarify information entered in other fields on the form may also be entered in the "Narrative" section of the form.

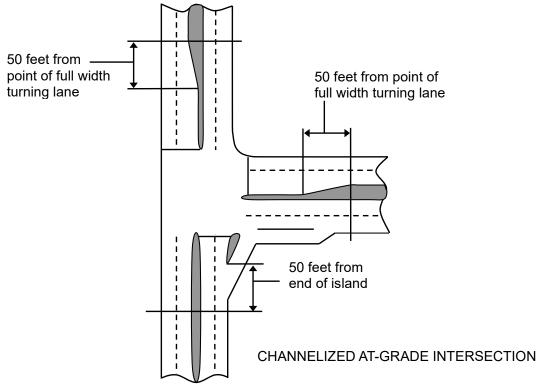
Remember, the Investigative Officer's Crash Report is a traffic report, not the place to include information about civil disputes or other details that do not pertain to the circumstances immediately surrounding the crash.

- **Do** include details that directly contributed to the crash.
- **Do not** include irrelevant details such as a driver's destination; "Driver 1 was going to the grocery store to buy milk when, or where you were when you received the call, or what car you were in ..."
- **Do** include results of an investigation but **not** necessarily the details of the process.
- **Do not** include any Personal Identifiable Information (PII) such as, names, insurance policy numbers, names of insurance agents, DL numbers, plate numbers, VIN, DOB, phone numbers, or addresses of anyone.
- **Do not** list "Property Damage" or "Witnesses" in the narrative. There are sections in the report for these items.

#### **INTERSECTION DEFINITIONS**



UNCHANNELIZED AT-GRADE INTERSECTION — area within a boundary 50 feet beyond the crosswalk, stop line markings, Stop or Yield signs, or in the absence of these features, the edge of the roadway.



CHANNELIZED AT-GRADE INTERSECTION — area within a boundary 50 feet beyond the island or point where full width turning lane begins.

#### STATE AND U.S. TERRITORY ABBREVIATIONS

Alabama	AL	Montana	MT
Alaska	AK	Nebraska	NE
American Samoa	AS	Nevada	NV
Arizona	AZ	New Hampshire	NH
Arkansas	AR	New Jersey	NJ
California	CA	New Mexico	NM
Colorado	CO	New York	NY
Connecticut	CT	North Carolina	NC
Delaware	DE	North Dakota	ND
District of Columbia	DC	North Marianas Islands	MP
Florida	FL	Ohio	ОН
Georgia	GA	Oklahoma	OK
Guam	GU	Oregon	OR
Hawaii	HI	Pennsylvania	PA
Idaho	ID	Puerto Rico	PR
Illinois	IL	Rhode Island	RI
Indiana	IN	South Carolina	SC
Iowa	IA	South Dakota	SD
Kansas	KS	Tennessee	TN
Kentucky	KY	Texas	TX
Louisiana	LA	Utah	UT
Maine	ME	Vermont	VT
Maryland	MD	Virginia	VA
Massachusetts	MA	Virgin Islands	VI
Michigan	MI	Washington	WA
Minnesota	MN	West Virginia	WV
Mississippi	MS	Wisconsin	WI
Missouri	MO	Wyoming	WY

#### **24-HOUR TIME**

The method to calculate 24-hour time from the clock time is given below.

- 1. If the clock time is between midnight and 1 a.m., 24-hour time equals 00 + clock minutes (e.g., 12:45 a.m. is 0045).
- 2. If clock time is between 1 a.m. and 1 p.m., 24-hour time equals clock time, using four digits (e.g., 3:45 a.m. is 0345).
- 3. If clock time is from 1 p.m. to midnight, 24-hour time equals clock time + 12 hours (e.g., 2:45 p.m. is 1445).

### **IOWA COUNTIES AND THEIR NUMBERS**

1	Adair	34	Floyd	67	Monona
2	Adams	35	Franklin	68	Monroe
3	Allamakee	36	Fremont	69	Montgomery
4	Appanoose	37	Greene	70	Muscatine
5	Audubon	38	Grundy	71	O'Brien
6	Benton	39	Guthrie	72	Osceola
7	Black Hawk	40	Hamilton	73	Page
8	Boone	41	Hancock	74	Palo Alto
9	Bremer	42	Hardin	75	Plymouth
10	Buchanan	43	Harrison	76	Pocahontas
11	Buena Vista	44	Henry	77	Polk
12	Butler	45	Howard	78	Pottawattamie
13	Calhoun	46	Humboldt	79	Poweshiek
14	Carroll	47	Ida	80	Ringgold
15	Cass	48	Iowa	81	Sac
16	Cedar	49	Jackson	82	Scott
17	Cerro Gordo	50	Jasper	83	Shelby
18	Cherokee	51	Jefferson	84	Sioux
19	Chickasaw	52	Johnson	85	Story
20	Clarke	53	Jones	86	Tama
21	Clay	54	Keokuk	87	Taylor
22	Clayton	55	Kossuth	88	Union
23	Clinton	56	Lee	89	Van Buren
24	Crawford	57	Linn	90	Wapello
25	Dallas	58	Louisa	91	Warren
26	Davis	59	Lucas	92	Washington
27	Decatur	60	Lyon	93	Wayne
28	Delaware	61	Madison	94	Webster
29	Des Moines	62	Mahaska	95	Winnebago
30	Dickinson	63	Marion	96	Winneshiek
31	Dubuque	64	Marshall	97	Woodbury
32	Emmet	65	Mills	98	Worth
33	Fayette	66	Mitchell	99	Wright

#### **CODE SHEET**

The following shows an example of the code sheet Iowa DOT Form 433014. This form is also available for download on the IowaDOT's website: www.iowadot.gov/mvd/ods/accidents.htm.

Page 1 of 4



### INVESTIGATING OFFICER'S REPORT OF MOTOR VEHICLE ACCIDENT CODE SHEET

#### Vehicle Characteristics **Vehicle Configuration Initial Travel Direction** Cargo Body Type (prior to coded Vehicle Action) 1 - Passenger car 21 - Motor home/recreational vehicle 2 - Four-tire truck (pick-up) 1 - Not applicable 1 - North 3 - Sport utility vehicle 22 - School bus (seats >15) 2 - Van/enclosed box 2 - East 3 - Dump (grain/gravel) 4 - Passenger van (seats <9) 23 - Small school bus (seats 9-15) 3 - South 4 - Cargo tank 5 - Passenger van (seats 9-15) 24 - Other bus (seats >15) 4 - West 25 - Other small bus (seats 9-15) 5 - Flatbed 99 - Unknown 6 - Cargo/panel van 6 - Concrete mixer 7 - Auto transporter 7 - Single-unit truck (2-axle, 6-tire) 26 - Farm tractor 8 - Single-unit truck (>=3 axles) 8 - Garbage/refuse 27 - Farm equipment Vehicle Action 9 - Other light truck (<=10,000 lbs) (explain in narrative) 9 - Hopper (grain, chips, gravel) 10 - Vehicle <=10,000lbs, placarded 28 - All-terrain vehicle (ATV) 10 - Pole trailer 1 - Movement essentially straight for hazardous materials 29 - Snowmobile 11 - Log trailer 2 - Turning Left 11 - Truck/trailer 30 - Golf cart 12 - Intermodal container chassis 3 - Turning right 12 - Truck tractor (bobtail) 31 - Street legal, low-speed vehicle 13 - Small utility trailer (one-axle) 4 - Making U-turn 14 - Large utility trailer (2+axles) 13 - Tractor/semi-trailer 5 - Overtaking/passing 14 - Tractor/doubles 32 - Limousine/taxi (seats 8 or less) 15 - Boat 6 - Changing lanes 16 - Camper 15 - Tractor/triples 33 - Limousine/taxi (seats 9-15) 7 - Entering traffic lane (merging) 16 - Other heavy truck (>10,000 lbs) 34 - Limousine/taxi (seats >15) 17 - Large mobile home 8 - Leaving traffic lane 18 - Oversize load (cannot classify) 9 - Backing 19 - Towed vehicle 35 - Maintenance/construction vehicle 10 - Slowing/stopping (decelerating) 17 - Motorcycle 36 - Train 11 - Stopped in traffic 98 - Other (explain in narrative) 18 - 3-wheeled, enclosed 12 - Legally parked 19 - 3-wheeled, unenclosed 98 - Other (explain in narrative) 99 - Unknown 13 - Illegally parked/unattended 20 - Moped 99 - Unknown 14 - Negotiating a curve **Special Vehicles** Vehicle Defect 15 - Starting in road **Special Function of Vehicle** 16 - Accelerating in road 1 - None 11 - Headlights 2 - Brake system 12 - Tail lights 17 - Leaving a parked position 1 - No special function 18 - Entering a parked position 3 - Steering 13 - Turn signal 2 - Police 4 - Blowout 14 - Body/doors 98 - Other (explain in narrative) 3 - Fire 99 - Unknown 5 - Other tire defect (explain in narrative) 15 - Power train 4 - Ambulance 6 - Wheels 16 - Suspension 5 - Incident response vehicle 7 - Windows/windshield 17 - Exhaust 6 - Non-transport emergency service Point of Initial Impact 8 - Wipers 18 - Safety systems vehicle Most Damaged Area 9 - Mirrors 98 - Other 7 - Military (explain in narrative) 8 - Snow plow 10 - Trailer hitch/truck coupling, safety chain 99 - Unknown 9 - Taxi Hazardous Materials **Towed Field** 10 - School (cargo only) 98 - Other (explain in narrative) 1 - Driven away 10 2 2 - Disabled - privately arranged 99 - Unknown Front Involvement 3 - Disabled - officer arranged 2 - No 3 - Not applicable **Emergency Status** 4 - Not disabled - privately arranged 5 - Not disabled - officer arranged 99 - Unknown 1 - Not applicable Placard 6 - Abandoned/left at scene 2 - Yes, warning equipment used 1 - Yes 3 - Yes, warning equipment not used **Extent of Damage** 2 - No 3 - Not applicable 99 - Unknown 9 3 13 1 - None 4 - No, non-emergency, non-transport 2 - Minor Damage 5 - No, non-emergency, transport Released 99 - Unknown 3 - Functional damage 1 - Yes 4 - Disabling damage 2 - No 3 - Not applicable 99 - Unknown 5 - Severe, vehicle totalled **Bus** Use 9 - Unknown 8 4 1 - School (public or private) **Commercial Motor Vehicle** Underride / Override 2 - Transit/commuter 1 - None Converter Dolly 6 2 - Underride, compartment intrusion 3 - Intercity 1 - Yes 3 - Underride, no compartment 4 - Charter/tour 2 - No dolly used intrusion 5 - Shuttle 3 - No informatiom/label or unreadable 14 - Undercarriage 4 - Underride, compartment intrusion 6 - Modified for personal/private use 9 - Unknown 15 - Non-collision/no damage unknown 7 - Church 5 - Override, moving vehicle **Gross Vehicle Weight Rating** 16 - Cargo loss 98 - Other (explain in narrative) (GVWR) 6 - Override, parked/stationary 98 - Other (explain in narrative) 99 - Unknown 1 - 10,000 lbs or less vehicle 99 - Unknown 2 - 10,001 lbs -26,000 lbs 8 - Other

9 - Unknown

3 - 26,001 lbs or more

Page 2 of 4 **CONTRACT** 

### INVESTIGATING OFFICER'S REPORT OF MOTOR VEHICLE ACCIDENT

	Driver Characteristi	cs	
Contributing Circumstance	ces, Driver (up to two)		Driver Re-Examination Needed:
1 - Ran traffic signal 2 - Ran Stop sign 3 - Exceeded authorized speed 4 - Driving less than the posted speed limit 5 - Driving too fast for conditions 6 - Lost control 7 - Followed too close 8 - Operating vehicle in a reckless, erratic careless, negligent manner 9 - Improper or erratic lane changing 10 - Aggressive driving/road rage 11 - Made improper turn 12 - Failed to yield to emergency vehicle 13 - Traveling wrong way/on wrong side 14 - Traveling on prohibited traffic way 15 - Over-correcting/over-steering 16 - Failed to keep in proper lane 17 - Failure to signal intentions 18 - Swerved to avoid: vehicle, object non-motorist, or animal in roadway 19 - Starting or backing improperly 20 - Failure to dim lights/have lights on 21 - Vehicle stopped on railroad tracks 22 - Vehicle drove around grade crossing gates  Passing 30 - On wrong side 31 - Where prohibited by signs/markings 32 - With insufficient distance/inadequate visibility	Failed to yield right-of-way (1)  Failed to yield right-of-way (1)  40 - From Stop sign  41 - From Yield sign  42 - Making left turn  43 - Making right turn on red sign  44 - From driveway  45 - From parked position  46 - To non-motorist  47 - At uncontrolled intersecti  97 - Other FTYROW (explain  Other (explain in narrative):  50 - Vision obstructed  51 - Operating without required  52 - Failure to obey displayed  warnings or instruct  53 - Disregarded signs/road m  54 - Illegal off-road driving  55 - Towing improperly  56 - Getting off/out of vehicle  57 - Overloading/improper load  with passengers/cargo  58 - Operator inexperience  88 - No improper action  98 - Other (explain in narrative)	ignal 2  ignal 2  ignal 2  ignal 4  5  d equipment vehicle ons arkings	- Yes (explain in narrative) - No  Driver Distraction: - Not applicable/no driver - Not distracted  lectronic devices: - Manual operation of an electronic communication device (texting, typing, dialing) - Talking on hand-held device - Talking on hands free device - Adjusting devices (radio, climate) 5 - Other activity with electronic device (explain in narrative)  ther distraction inside vehicle: 0 - Passenger - Unrestrained animal 2 - Eating or drinking related 3 - Smoking related 4 - Reaching for object(s)/fallen object(s) 5 - Inattentive/lost in thought 5 - Looked but did not see 7 - Other distraction inside vehicle (explain in narrative)
33 - Through/around barrier 96 - Other passing (explain in narrative)	99 - Unknown	90	3 - Distraction outside vehicle (explain in narrative)
			9 - Unknown
Driver Condition		A	ccident Environment

96 - Other passing (explain in narrative)		99 - Unknown			
Driver (	Condition	Accident Environment			
<ol> <li>Apparently normal</li> <li>Emotional (e.g., depressed, angry)</li> <li>Asleep/fatigued</li> <li>Illness/fainted</li> <li>Medical condition (seizure, reaction)</li> <li>Under the influence of alcohol</li> <li>Under the influence of drugs/meds</li> </ol>	8 - Physical impairment 9 - Walks with a cane/crutches 10 - Paraplegic/wheelchair restricted 11 - Impaired due to previous injury 12 - Hearing impaired/deaf 13 - Visually impaired 98 - Other (explain in narrative) 99 - Unknown	Location of First Harmful Event  1 - On roadway  2 - Shoulder  3 - Median  4 - Roadside  5 - Gore  6 - Outside trafficway  7 - In parking lane/zone  8 - Continuous left turn lane	Manner of Crash/Collision  1 - Non-collision (single vehicle)  2 - Head-on (front to front)  3 - Rear end (front to rear)  4 - Angle, oncoming left turn  5 - Broadside (front to side)  6 - Sideswipe, same direction  7 - Sideswipe, opposite direction  8 - Rear to rear		
	Obscured  1 - Broken/dirty windshield	9 - Separator 98 - Other (explain in narrative) 99 - Unknown	9 - Rear to side 98 - Other (explain in narrative) 99 - Unknown		
3 - Embankment 1 4 - Hillcrest 1 5 - Building(s) 1 6 - Sign/billboard 1 7 - Parked vehicle(s) 1 8 - Moving vehicle(s) 1 9 - Person/object in or on vehicle 9	2 - Frosted windows/windshield 3 - External mirrors 4 - Blowing snow 5 - Fog/smoke/dust 6 - Splash/spray of passing vehicle 7 - Inadequate vehicle lighting 8 - Exterior angle/blind spot on vehicle 8 - Other (explain in narrative) 9 - Unknown	Weather Conditions (up to two)  1 - Clear  2 - Cloudy  3 - Fog, smoke, smog  4 - Freezing rain/drizzle  5 - Rain  6 - Sleet, hail  7 - Snow  8 - Blowing snow  9 - Severe winds	Surface Conditions  1 - Dry  2 - Wet  3 - Ice/Frost  4 - Snow  5 - Slush  6 - Mud, dirt  7 - Water (standing or moving)  8 - Sand  9 - Oil		
Alcohol/D	rug Testing	10 - Blowing sand, soil, dirt	10 - Gravel		
Alcohol Test Given   Drug Test Given	Drug Test Result	98 - Other (explain in narrative) 99 - Unknown	98 - Other (explain in narrative) 99 - Unknown		
1 - None 2 - Blood 3 - Urine 4 - Breath 5 - Vitreous 9 - Refused 1 - None 2 - Blood 3 - Urine 4 - Breath 5 - Vitreous 9 - Refused 9 - Refused	1 - Negative 6 - Inhalants 2 - Cannabis 7 - Narcotic 3 - Central Nervous Sys. depressants 4 - Central Nervous Sys, stimulants 9 - Prescription Drug 5 - Hallucinogens 98 - Other (explain	Light Co 1 - Daylight 2 - Dusk	onditions 4 - Dark, roadway lighted 5 - Dark, roadway not lighted 6 - Dark, unknown roadway lighting		

## INVESTIGATING OFFICER'S REPORT OF MOTOR VEHICLE ACCIDENT CODE SHEET

Work Zone Related?	Harmfu	l Events
Work Zone Activity	Sequence of Events Most harm	ful Event First Harmful Event
1 - Construction 2 - Maintenance 3 - Utility 98 - Other (explain in narrative) 99 - Unknown	Pre-crash events:  1 - Ran off road, right 2 - Ran off road, straight 3 - Ran off road, left 4 - Crossed centerline (undivided) 5 - Crossed median (divided)	Collision with fixed object: 40 - Bridge overhead structure 41 - Bridge pier or support 42 - Bridge/bridge rail parapet 43 - Curb/island/raised median 44 - Ditch
Location  1 - Before work zone warning sign  2 - Advance warning area  3 - Transition area  4 - Within or adjacent to work activity  5 - Termination area  98 - Other (explain in narrative)  99 - Unknown	6 - Evasive action (swerve, panic braking, avoidance 7 - Downhill runaway 8 - Cargo/equipment loss or shift 9 - Equipment failure (tires, brakes, etc.) 10 - Towed portion came apart (separation of units) 11 - Loss of traction 12 - Trailer fishtailing or swaying 13 - Animal (avoided hitting) 94 - Other pre-crash (explain in narrative)  Non-collision events: 20 - Overturn/rollover	2) 45 - Embankment 46 - Ground 47 - Culvert/pipe opening 48 - Guardrail - face 49 - Guardrail - end 50 - Concrete traffic barrier (median or right side) 51 - Other traffic barrier (explain in narrative) 52 - Cable barrier 53 - Impact attenuator/crash cushion 54 - Utility pole/light support 55 - Traffic sign support 56 - Traffic signal support
Type  1 - Lane closure  2 - Lane switch/crossover  3 - Work on shoulder or median  4 - Intermittent or moving work  98 - Other (explain in narrative)  99 - Unknown	21 - Jackknife 22 - Non-contact vehicle (phantom) 23 - Vehicle went airborne 24 - Fell/jumped from vehicle 95 - Other non-collision (explain in narrative)  Collision with: 30 - Thrown or falling object 31 - Animal 32 - Non-motorist (see non-motorist section	57 - Other post/pole/support (explain in narrative) 58 - Fire hydrant 59 - Mailbox 60 - Tree 61 - Landscape/shrubbery 62 - Snow bank 63 - Fence 64 - Wall 65 - Building
Workers Present?  1 - Workers only 2 - No workers present 3 - Workers and officer present 4 - Law enforcement only 5 - No one present 98 - Other (explain in narrative) 99 - Unknown	- NOT a unit) 33 - Vehicle in traffic 34 - Re-entering roadway 35 - Parked motor vehicle 36 - Work zone maintenance equipment 37 - Railway vehicle/train 38 - Struck/struck by object/cargo/person from other vehicle 96 - Other non-fixed object (explain in narrative)	97 - Other fixed object (explain in narrative)  Miscellaneous events: 70 - Fire/explosion 71 - Immersion 72 - Hit and run 73 - Eluding law enforcement 74 - Gas inhalation/asphyxiation 75 - Vehicle out of gear/rolled 98 - Other (explain in narrative) 99 - Unknown
	Roadway Characteristics	
Contributing Circumstances, Environment  1 - None apparent  2 - Weather conditions  3 - Visual obstruction  4 - Non-motorist action  5 - Glare  6 - Animal in roadway  7 - Severe crosswind  98 - Other (explain in narrative)  99 - Unknown	Type of Roadway Junction/Feature  Non-intersection:  1 - Non-junction/no special feature  2 - Bike lanes  3 - Railroad grade crossing  4 - Driveway access (within)  5 - Driveway access (related, not in)  6 - Alley  7 - Crossover-related  96 - Other non-intersection (explain in narrative)  Intersection-related:	Traffic Controls  1 - No controls present  2 - Traffic signals  3 - Flashing traffic control signal  4 - Stop signs  5 - Yield signs  6 - No passing zone (marked)  7 - Warning sign  8 - School zone signs  9 - Railway crossing device  10 - Traffic director (person)
Contributing Circumstances, Roadway  1 - None apparent  2 - Surface condition (e.g., wet, icy)  3 - Debris  4 - Ruts, holes, bumps  5 - Work Zone (roadway-related)  6 - Slippery, loose, or worn surface  7 - Obstruction in roadway  8 - Traffic control obscured  9 - Shoulders (none, low, soft, high)  10 - Non-highway work  11 - Traffic backup, prior crash  12 - Traffic backup, regular congestion  13 - Traffic backup, prior non-recurring incident  14 - Disabled vehicle  98 - Other (explain in narrative)  99 - Unknown	10 - Roundabout 11 - Traffic circle 12 - Four-way intersection 13 - T-intersection 14 - Y-intersection 15 - Five points or more 16 - L-intersection 17 - Shared use path or trail 18 - Intersection with ramp 97 - Other intersection (explain in narrative)  Interchange-related: 20 - On-ramp merge area 21 - Off-ramp, diverge area 22 - On-ramp 23 - Off-ramp 24 - Mainline, between ramps 98 - Other interchange (explain in narrative)  99 - Unknown	11 - Work zone sign 12 - Inoperative (not functioning properly) 13 - Traffic sign missing 98 - Other (explain in narrative) 99 - Unknown  Horizontal Alignment (curve): 1 - Straight 2 - Traversing curve to left 3 - Traversing curve to right 98 - Other (explain in narrative) 99 - Unknown  Vertical Alignment (grade): 1 - Level 2 - At crest 3 - Traversing uphill 4 - Traversing downhill 5 - At sag (bottom of hill) 98 - Other (explain in narrative) 99 - Unknown

Page 4 of 4 **COMADOT**Form 433014 (04-18)

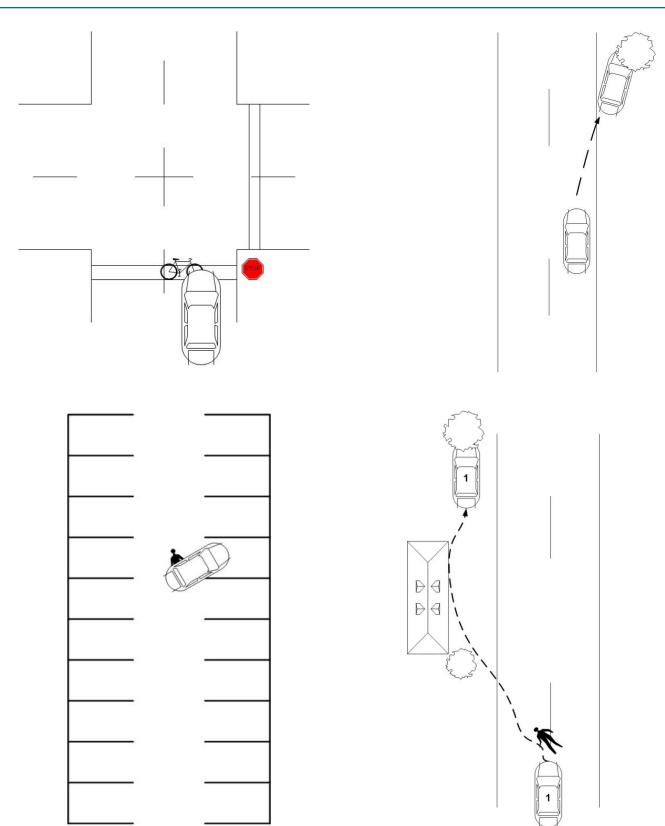
### INVESTIGATING OFFICER'S REPORT OF MOTOR VEHICLE ACCIDENT CODE SHEET

		Injur	/Protec	tive De	vices			
Injury Status		Seating Posit	ion				Occupant Protection	
1 - Fatal			_	_		1 - No	ot applicable	
2 - Suspected serious/incapacitati	ng	1	2	3	1st Row		one used	
3 - Suspected minor/non-incapac		1		Ľ	1 100		oulder and lap belt used	
4 - Possible (complaint of pain/in		4	5	6	2nd Row	4 - Lap belt only used		
5 - Uninjured	<i>3 3</i> /	-	8	9	2-17	5 - Shoulder belt only used		
7 - Fatal, not crash-related		7	٥	9	3rd Row	6 - Cł	nild safety seat (forward-facing)	
9 - Unknown		10	11	12	4th Row		nild safety seat (rear-facing)	
Died at Scene/Enro	ute	-		1.0			nild safety seat (type unknown)	
1 - Not applicable		13	14	15	5th Row		poster seat	
2 - Died at scene		16 - In 6th row or	greater				Helmet (DOT compliant)	
3 - Died enroute		17 - In enclosed p		/cargo ar	ea		Helmet (other)	
4 - Died at hospital		18 - In unenclose					98 - Other (explain in narrative) 99 - Unknown	
5 - Died later (w/in 30 days)		19 - Sleeper	· r · · · · · ·	,				
98 - Other (explain in narrative)		20 - Trailing unit				Airbag Deployment		
99 - Unknown		21 - Riding on ex	erior of	vehicle		1 - No	ot applicable	
Source of Transpo	ort	22 - Hanging onto	vehicle			2 - Ai	irbag turned off	
		23 - Passenger of					ot deployed	
1 - Not transported		98 - Other vehicle	-related	(explain i	in narrative)		eployed front of person	
2 - EMS air 3 - EMS ground		99 - Unknown					eployed side of person	
4 - Law enforcement							eployed both front/side	
5 - Parent/spouse/friend		Tı	apped/E	xtricated	1		eployed curtain	
6 - Self		1 - Not trapped/ap					Other deployment (explain in narrative)  Junknown	
7 - To funeral home/morgue		2 - Extricated by				99 - 0	Jiknown	
98 - Other (explain in narrative)		3 - Extricated by	nechanic	al means			Ejection Path	
99 - Unknown		9 - Unknown				1 - No	ot ejected/not applicable	
Non-motorist (see non-motorist	section below)						nrough front windshield	
1 - Pedestrian	, , , , , , , , , , , , , , , , , , , ,	Ejection	Tv	ne of Pri	mary Incident		nrough side window	
2 - Pedalcyclist (bicycle, tricycle, u	nicycle,pedal car)	· ·		-	<u> </u>		nrough side door	
<ul><li>3 - Pedalcycle passenger</li><li>4 - In or on building</li></ul>		<ul><li>1 - Not applicable</li><li>2 - Not ejected</li></ul>		Vehicle (		5 - Th	rough roof	
5 - Horse and Buggy		3 - Partially ejected		Traffic St Roadway			nrough back window	
6 - Skater, personal conveyance,	wheelchair	4 - Totally ejected		Motorist .			rough back door/tailgate opening	
98 - Other non-motorist (explain		9 - Unknown			plain in narrative)		Other (explain in narrative)	
99 - Unknown		y chanown		other (EA	piani in narrative)	99 - U	Jnknown	
			Non-M	otorist				
Location (prior to impact)		orior to crash)			Condition		Contributing Circumstances	
Intersection:		crossing roadway	1 -	Annarent	ly normal		1 - No improper action	
	2 - Waiting to c				l (e.g., depressed	, angry)	2 - Not visible (dark clothing) 3 - Improper crossing	
<ul><li>1 - Within marked crosswalk</li><li>2 - Within unmarked crosswalk</li></ul>		ming from school		Asleep/fa		, 83,	4 - Darting/dashing	
3 - Not within crosswalk	4 - Working in	•	4 - I	llness/fai	nted		5 - Inattentive (talking, eating, texting)	
4 - Unknown location		g or leaving vehicle	5 - N	Medical c	ondition (seizure	,	6 - Riding/walking on wrong side of road	
1 Chancon rocation	6 - Entering/exi	ing venicie or working on vehic		reac	tion)		7 - Failure to obey traffic signs, signals, or officer	
Non-intersection (midblock):	, ,	nicle-related/pushin	0-0		influence of alco		8 - Failure to yield right-of-way	
	vehicle		/ - (		influence of dru	gs/meds	9 - Failure to have lights on when required	
<ul><li>5 - Within marked crosswalk</li><li>6 - Within unmarked crosswalk</li></ul>					mpairment		10 - Operating without required equipmen	
7 - Not within crosswalk	Movement:				th a cane/crutche		11 - Improper riding (more riders than	
8 - Unknown location	_	way with traffic			ic/wheelchair res		seats) 12 - Improper turn/merge	
- India in Isomion	_	way against traffic			l due to previous impaired/deaf	injury	13 - Improper turn/merge	
9 - Parking lane/zone	12 - Along road	• \			impaired/dear		14 - Passing with insufficient distance or	
10 - Pedalcycle lane	unknov 13 - On shoulde	,	13 -	visually	impaned/billid		inadequate visibility	
11 - Sidewalk	14 - On sidewa		98 -	Other (e	xplain in narrativ	e)	15 - Improper/erratic lane changing	
12 - Driveway access	17 - Oli sidewa	ı.		Unknow		,	16 - Failure to remain in proper lane 17 - Operating in a reckless, erratic,	
13 - Shared path or trail	` *	lain in narrative)					careless, negligent manner	
14 - Shoulder/roadside	99 - Unknown						18 - Improper exit/entry from trafficway	
15 - Median/crossing island		Safety	Equipm	ent			19 - In roadway improperly (standing,	
16 - Non-trafficway	1 - Not applical	ole	6 - Pr	otective	pads		sitting, lying, working, playing)	
17 - Travel lane, other location	2 - None				pads pment (explain ir	1	20 - Disabled vehicle-related (working on	
	3 - Helmet		, 141		ative)		pushing, leaving/approaching) 21 - Entering/exiting parked/standing	
98 - Other (explain in narrative)	4 - Reflective c	lothing	98 - 0		plain in narrative	)	vehicle	
		J					98 - Other (explain in narrative)	
99 - Unknown	5 - Lighting		99 - U	Jnkown			99 - Unknown	

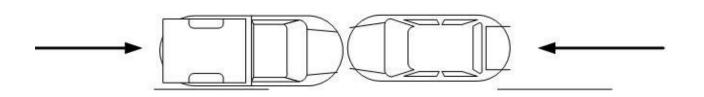
## **APPENDIX A**

## Manner of crash/collision examples

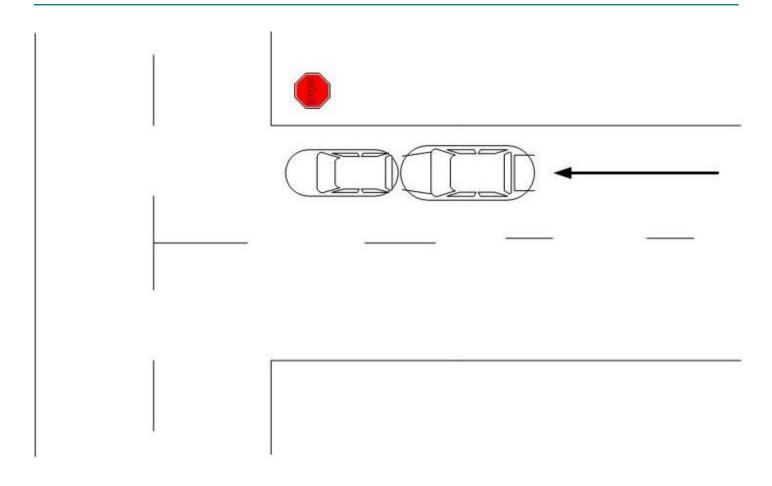
### **CODE 1 - NON-COLLISION**



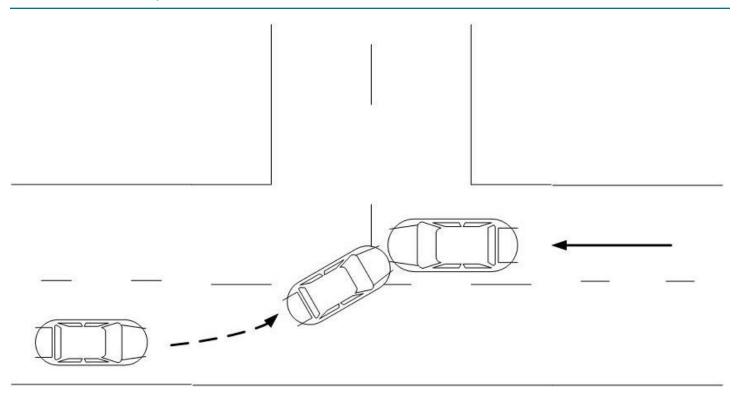
### **CODE 2 - HEAD-ON**



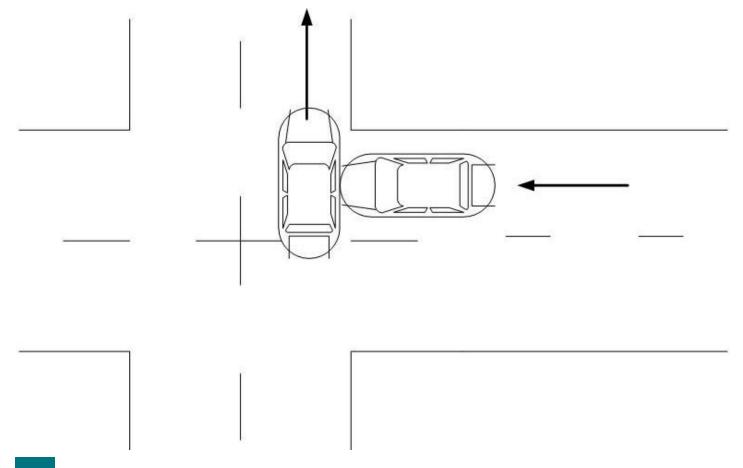
### CODE 3 - REAR-END



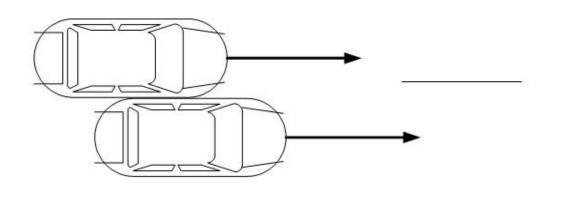
### **CODE 4 - ANGLE, ONCOMING LEFT TURN**



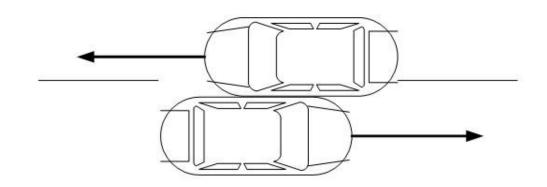
### **CODE 5 - BROADSIDE**



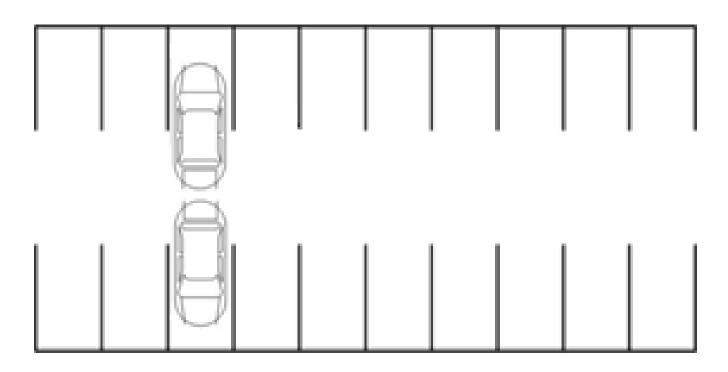
### **CODE 6 - SIDESWIPE, SAME DIRECTION**



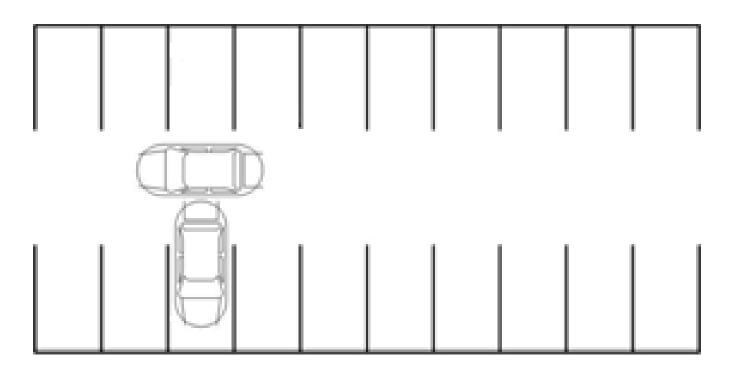
### **CODE 7 - SIDESWIPE, OPPOSITE DIRECTION**



#### **CODE 8 - REAR TO REAR**

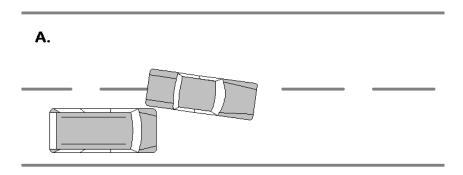


### **CODE 9 - REAR TO SIDE**

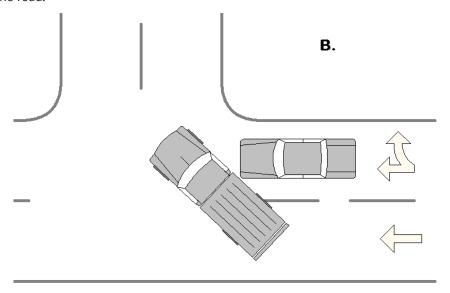


## APPENDIX B FAQ

#### WHEN IS A UNIT TURNING AND WHEN IS IT CHANGING LANES?

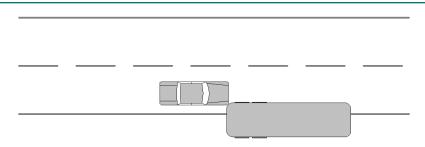


Often when a vehicle is changing lanes, a temptation is to say that it is executing a turn, which is incorrect. A lane change can usually be described as when a unit attempts to move from one lane to another without the intent to leave the roadway by entering a driveway or another road. Unless making a U-turn, a unit cannot be considered turning if there are no roadway features to allow it off the road.



A turn occurs when a driver's intent is to transfer from one roadway to another, such as at an intersection or driveway. Example B is illustrating a truck making an improper turn at an intersection. Although the truck is also traveling across another lane of travel, it is attempting to proceed north on a different roadway than it was previously traveling making it a turn (improper) and not just a lane change.

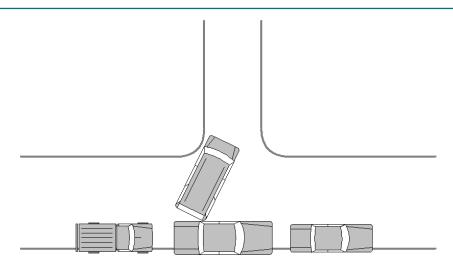
#### IS A TRAILER A UNIT?



In the situation above, a semitrailer was parked on the side of the road, partially in the travelled portion of the roadway and was subsequently struck by a car. A parked trailer of any kind that is not attached to a power unit, is not considered its own unit, but should be recorded as property damage. Remember, only a motor vehicle can be considered a unit and a lone trailer does not qualify.

An exception to this rule may occur if, for example, a livestock trailer being pulled by a pickup truck becomes unattached and rolls into a car. In this situation, even though the trailer wasn't attached at the moment of impact, the truck and trailer should still be treated as the same unit.

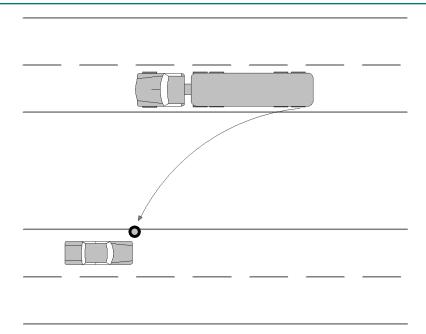
#### **HOW DO I REPORT AN UNOCCUPIED RUNAWAY VEHICLE?**



"Narrative" section example: While parked in owner's driveway, a minivan slips out of gear and rolls down the driveway, colliding with a parked vehicle on the opposite side of the road.

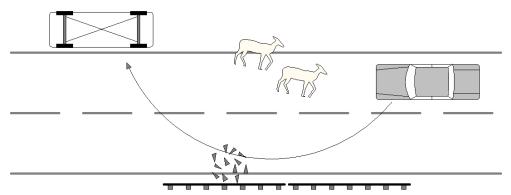
There are only two major differences between a crash like this and if both vehicles were occupied is that the out-of-control unit's driver will be 'unknown' and code 98 "Other" should be entered in the "Vehicle Action" field.

#### HOW DO I REPORT A RUNAWAY TIRE STRIKING ANOTHER VEHICLE?



In a situation like this, as strange as it may seem, the tire should still be treated as though it's a part of the vehicle from which it came. So, for the example above, the manner of crash/collision is a sideswipe, opposite direction. The same thing should be done in instances where a vehicle loses cargo and it strikes another vehicle – treat the cargo as if it's still a part of the vehicle carrying it.

#### IMPROPER USE OF EVENT – CODE 33 "VEHICLE IN TRAFFIC"



In this example, the unit swerved to miss some deer, struck a guardrail, and then traveled into the ditch where it overturned. A common mistake with single-vehicle crashes is to regard any contact between the vehicle and other objects as a collision using code 33 "Vehicle in traffic" (see "Sequence of Events" section on page 34).

A correct sequence of events could be coded as listed below.

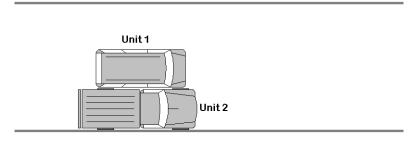
<b>Code 6</b> Evasive action (swerve, panic braking, etc.)	Code 6	Evasive action	(swerve, panio	braking, etc.)
--	--------	----------------	----------------	----------------

**Code 48** Guardrail face

**Code 1** Ran off road, right

Code 20 Overturn/Rollover

## HOW DO I REPORT A HIT AND RUN CRASH WHEN I KNOW NOTHING ABOUT THE STRIKING VEHICLE?

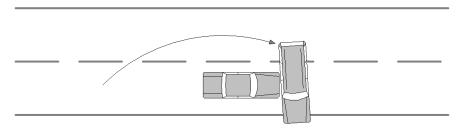


"Narrative" section example: At some point during the night, unknown "unit 1" struck legally parked "unit 2" outside owner's residence.

In a situation like this, there's not a lot of information that can be recorded for the run vehicle but there are still some points to keep in mind, including:

- 1. This is a two-vehicle crash so there should be two units.
- 2. At least one person was driving the run vehicle, so enter 1 in the "Total Occupants" field to validate the form.
- 3. Unit 1 should have code 35 "Collision with parked vehicle" entered in their "Sequence of Events" followed by code 72 "Hit and run."
- 4. Unit 2 "Sequence of Events" would be code 33 "Collision with vehicle in traffic."

#### WHEN THE CORRECT MANNER OF CRASH DOESN'T MAKE SENSE

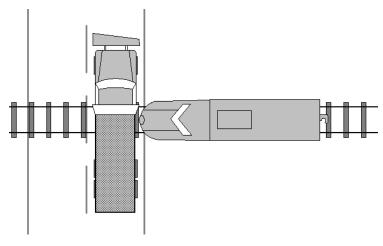


**Situation**: Both vehicles are traveling east on a partially ice-covered roadway when the trailing vehicle attempts to pass. During the maneuver, the passing vehicle loses control, rotating and sliding in front of the other vehicle, at which point a collision occurs.

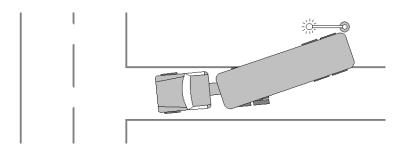
This is understandably one of the most debated topics officers encounter when investigating crashes. The most often argued point is to record the facing directions (which determines the manner of crash) of the vehicles upon impact. This does make sense; however, for analysis purposes the lowa DOT and other agencies need to know the correct initial travel direction of each vehicle immediately prior to the unstable situation. This point causes contention due to the fact that quite often, the manner of crash doesn't seem to make sense, such as in the above example.

In this case, the "Manner of Crash" is code 6 "Sideswipe, same direction." Why, even though the two vehicles obviously collided at a roughly 90-degree angle to each other? Remember, it's the initial travel direction that determines the manner of crash, not the direction the vehicles are facing. In this situation, both vehicles were traveling in an easterly direction that narrows down the manner of crash option to either rear-end or sideswipe, same direction.

#### **HOW DO I REPORT ON CRASHES INVOLVING TRAINS?**



When reporting a crash involving a motor vehicle and a train, the train should be created as a unit but do not enter the train's conductor or engineer as the driver. Enter the train's vehicle configuration as code 36 "Train" and enter 1 for the "Total Occupants" field. In TraCS, answer "No" for the first field of the Unit section, "Is all information known/applicable for this unit?" That allows the fields that are not needed for the train to be left blank and still validate. If anyone on/in the train is injured, add them in the "Injured Persons" under the train unit. The seating position would be "98-Other-vehicle related (explain in narrative).



#### CRASH WAS ON PRIVATE PROPERTY - SHOULD I REPORT IT?

"Narrative" section example: While backing into a private driveway to load corn during harvest time, the unit strikes a yard light and utility pole belonging to the local electric company, knocking the pole and wires to the ground.

Crashes on private property should be reported to the lowa DOT in the same manner as crashes occurring on public roadways as long as they meet the reportable criteria as described on **page 5**.

## **APPENDIX C**

## National Crime Information Center Approved Abbreviations

Acura	ACUR	Kia Motors Corp.	KIA
Alfa Romeo	ALFA	Lamborghini	LAMO
American Motors	AMER	Land Rover	LNDR
Aston Martin	ASTO	Lexus	LEXS
Audi	AUDI	Lincoln-Continental	LINC
Austin	AUST	Lotus	LOTU
Bentley	BENT	Maserati	MASE
BMW	BMW	Mazda	MAZD
Buick	BUIC	Mercedes-Benz	MERZ
Cadillac	CADI	Mercury	MERC
Checker	CHEC	Merkur	MERK
Chevrolet	CHEV	MG	MG
Chrysler	CHRY	Mitsubishi	MITS
Citroen	CITR	Nash	NASH
Daewoo	DAEW	Nissan	NISS
Daihatsu	DAIH	Oldsmobile	OLDS
Datsun	DATS	Opel	OPEL
DeSoto	DESO	Packard	PACK
Dodge	DODG	Peugeot	PEUG
Eagle	EGIL	Plymouth	PLYM
Edsel	EDSE	Pontiac	PONT
Ferrari	FERR	Porsche	PORS
Fiat	FIAT	Rambler	RAMB
Ford	FORD	Renault	RENA
General Motors Corp.	GMC	Rolls-Royce	ROL
GEO	GEO	Rover	ROV
Honda	HOND	Saab	SAA
Hudson	HUDS	Saturn	STRN
Hyundai	HYUN	Studebaker	STU
Imperial	IMPE	Subaru	SUBA
Infiniti	INFI	Suzuki	SUZI
Isuzu	ISU	Toyota	TOYT
Jaguar	JAGU	Triumph	TRIU
Jeep	JEEP	Volkswagen	VOLK
Kaiser	KAIS	Volvo	VOLV

## **APPENDIX D**

## Color Code

COLOR	ABBREVIATION	COLOR	ABBREVIATION
Aluminum	SIL	Green, light	LGR
Amethyst (purple)	AME	lvory	CRM
Beige	BGE	Lavender (purple)	LAV
Black	BLK	Maroon	MAR
Blue	BLU	Mauve (purple)	MVE
Blue, dark	DBL	Multicolored	MUL/COL*
Blue, light	LBL	Orange	ONG
Bronze	BRZ	Pink	PNK
Brown	BRO	Purple	PLE
Burgundy (purple)	MAR	Red	RED
Camouflage	CAM	Silver	SIL
Chrome	COM	Stainless steel	COM
Copper	CPR	Tan	TAN
Cream	CRM	Taupe (brown)	TPE
Gold	GLD	Teal (green)	TEA
Gray	GRY	Turquoise (blue)	TRQ
Green	GRN	White	WHI
Green, dark	DGR	Yellow	YEL

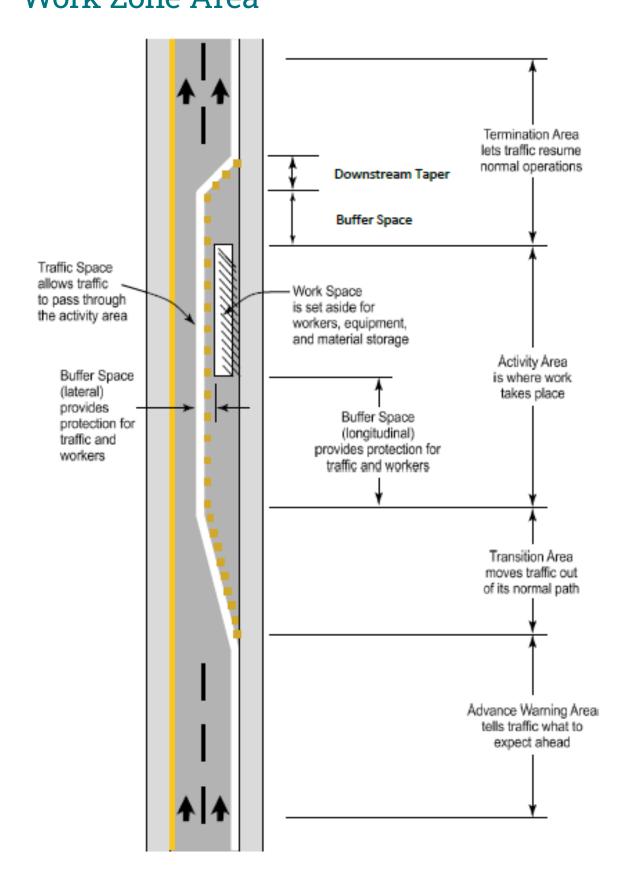
## **APPENDIX E**

## Officer in the Line of Duty Form

#### **SAMPLE**

Note: Email the Officer in the Line of Duty Form to: <a href="mailto:accident.support@iowadot.us">accident.support@iowadot.us</a>
Date:
lowa Department of Transportation Motor Vehicle Division P.O. Box 9204 Des Moines, IA 50306-9204
To Whom It May Concern:
This letter is official notice, as required by Iowa Code 321.267A that an emergency responder employed by the (Agency Name) was involved in a line of duty motor vehicle accident. Following are the required notice details.
OFFICER'S INFORMATION
Officer's name Date of birth
Driver's license number and state of issue
Case number
Name of agency taking report
Date of crash
Accident location
Vehicle identification number (VIN) driven by responder
This crash was reviewed and occurred in the line of duty:
While operating an official government vehicle.
While operating a personally owned vehicle.
I certify under penalty of perjury and pursuant to the laws of the State of Iowa that the preceding is true and correct.
Officer's supervisor

# **APPENDIX F**Work Zone Area



## **APPENDIX G**

## **Light Conditions**

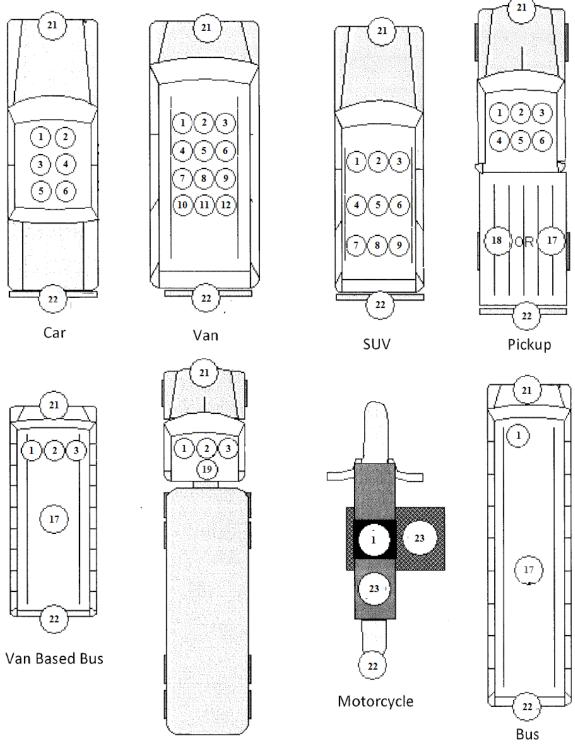
### TIME AND LIGHT CONDITIONS

If MONTH is	and TIME is	then LIGHT condition must be
January (CST)	0001-0530	4 or 5
	0900-1530	1
	1900-2400	4 or 5
February (CST)	0001-0530	4 or 5
	0830-1630	1
	1930-2400	4 or 5
March or April (CST)	0001-0430	4 or 5
	0800-1700 2000-2400	1 4 or 5
	0001-0500	
April (DST)	0800-1730	4 or 5 1
	2130-2400	4 or 5
May (DST)	0001-0430	4 or 5
	0730-1900	1
	2200-2400	4 or 5
June (DST)	0001-0430	4 or 5
	0700-1930	1
	2200-2400	4 or 5
July (DST)	0001-0500	4 or 5
	0730-1900	1
	2200-2400	4 or 5
August (DST)	0001-0500	4 or 5
	0800-1900	1
	2200-2400	4 or 5
September (DST)	0001-0530	4 or 5
	0830-1730	1
	2100-2400	4 or 5
October (DST)	0001-0530	4 or 5
	0830-1630	1
	2000-2400	4 or 5
October or November (CST)	0001-0530	4 or 5
	0830-1530	1
	1830-2400	4 or 5
December (CST)	0001-0600	4 or 5
	0900-1530	1
	1830-2400	4 or 5

# **APPENDIX H**

# **Seating Positions**

Source for images, tables, and charts shown in this appendix unless otherwise noted: *Model Minimum Uniform Crash Criteria, Fourth Edition.* 



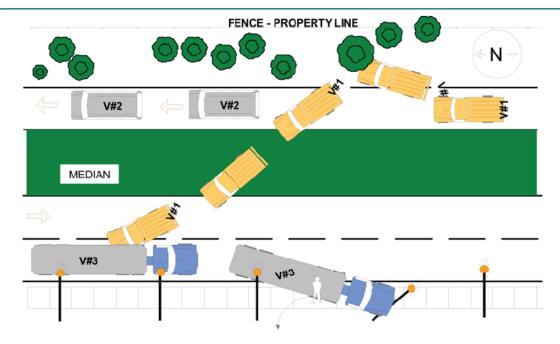
Tractor Trailer

## APPENDIX I

# Sequence of Events

Source for images, tables, and charts shown in this appendix unless otherwise noted: *Model Minimum Uniform Crash Criteria, Fourth Edition.* 

#### **EXAMPLE 1**



### Narrative

V#1, a pickup, was traveling in the right-hand lane of northbound SR7 following V#2, a van. V#2 slowed suddenly. D#1 did not notice V#2 slowing in time and swerved to the right to avoid striking V#2. V#1 struck a tree off the right side of the road. V#1 veered off the tree and proceeded to cross over the center median grass striking V#3 traveling in the right-hand southbound lane injuring the driver of V#1.

After being struck by V#1, V#3 struck the curb on the right-hand side of the road, crossed over the sidewalk, and struck a pedestrian and then a light pole. V#2 did not know the accident had occurred and kept on driving.

### Vehicle 2 from diagram

No sequence of events would be recorded for this vehicle as it was a "noncontact" vehicle and should not be listed as a Unit in the crash report.

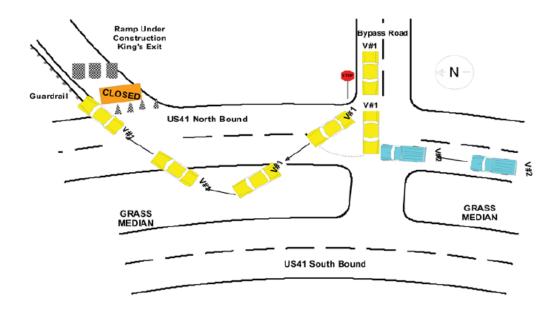
### Vehicle 1 sequence of events

verificite 1 sequence of events		
60	Collision with tree (first harmful event)	
1	Ran off road – right	
60	Collision with tree	
5	Cross median divided	
33	Collision with vehicle in traffic	
33	Collision with vehicle in traffic (most harmful event)	

### Vehicle 3 sequence of events

33	Collision with vehicle in traffic
43	Collision with curb
32	Collision with non-motorists
54	Collision with utility pole/light support
32	Collision with non-motorist (most harmful event)

#### **EXAMPLE 2**



### Narrative

D#1 was stopped at the stop sign on the south end of the bypass road around the King's Mine overpass construction. Upon entering U.S. 41 with the intention of crossing over the northbound lanes and then turning to the south, D#1 failed to see V#2 northbound on U.S. 41. V#2 struck the front driver's side of V#1 causing it to spin clockwise.

D#1 was either unconscious or disoriented. D#1 apparently had her foot on the accelerator and went approximately 1,000 feet to the north in the median and then crossed over northbound U.S. 41.

After crossing the northbound lanes, V#1 started up the ramp at the King's Mine interchange that is currently closed for construction. V#1 went head-on into the guardrail end on the west side ramp.

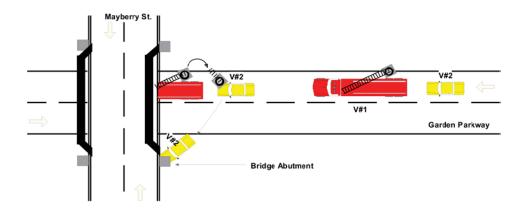
### Vehicle 1 sequence of events

- 33 Collision with vehicle in traffic (first harmful event)
- 33 Collision with vehicle in traffic
- 3 Ran off roadway left
- 49 Collision with quardrail end

### Vehicle 2 sequence of events

- 33 Collision with vehicle in traffic
- 33 Collision with vehicle in traffic (most harmful event)

#### **EXAMPLE 3**



### Narrative

V#1, a fire truck returning from an emergency, was traveling west on Garden Parkway approaching the Mayberry Street underpass when a malfunction in the hydraulic system of its hook and ladder apparatus caused the ladder to raise and swing to the right of the vehicle. When V#1 went under the Mayberry Street overpass the ladder and bucket struck the bottom of the bridge, breaking off the top portion of the ladder. The ladder piece struck the right, front quarter panel of V#2, which was following directly behind V#1. V#2 lost control and struck the underpass bridge abutment on the eastbound side of the road.

### Vehicle 1 sequence of events

- 40 Collision with bridge overhead structure (first harmful event)
- 9 Equipment failure
- 40 Collision with bridge overhead structure
- 8 Cargo/Equipment loss or shift
- 33 Collision with vehicle in traffic
- Collision with vehicle in traffic (most harmful event)

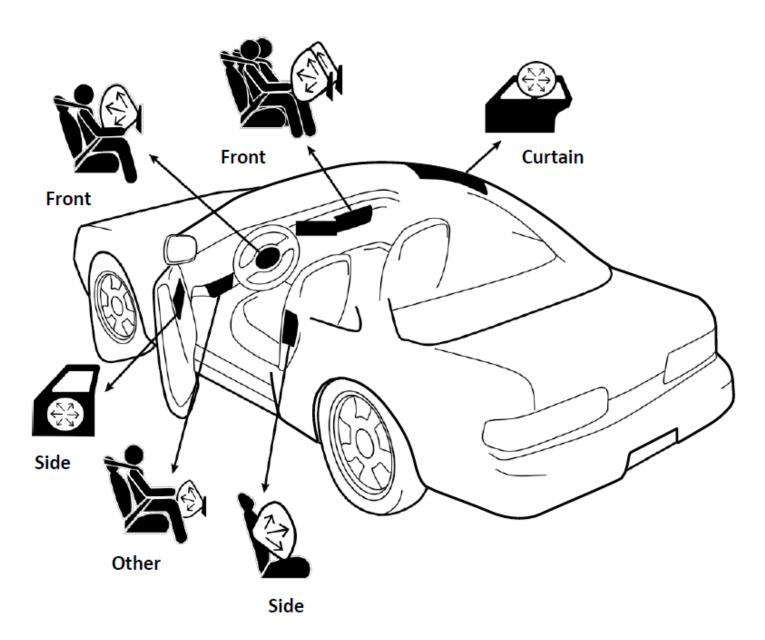
### Vehicle 2 sequence of events

- 38 Struck by object/cargo/person from other vehicle
- 4 Cross centerline
- 3 Ran off road left
- 41 Collision with bridge pier/support
- 38 or 41 Officer needs to determine (most harmful event for V2)

# **APPENDIX J**

# Air Bags Diagram

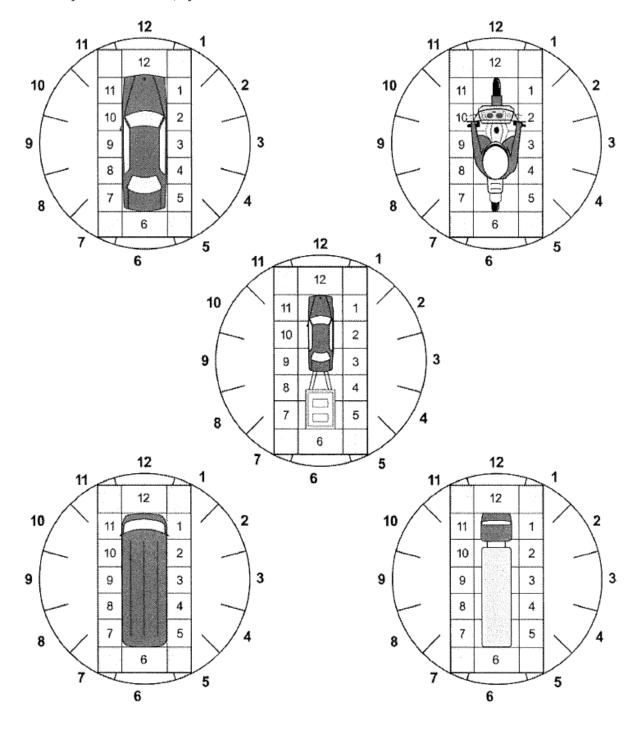
Source for images, tables, and charts shown in this appendix unless otherwise noted: *Model Minimum Uniform Crash Criteria, Fourth Edition.* 



# **APPENDIX K**

# Clockpoint Diagrams for Different Types of Motor Vehicles

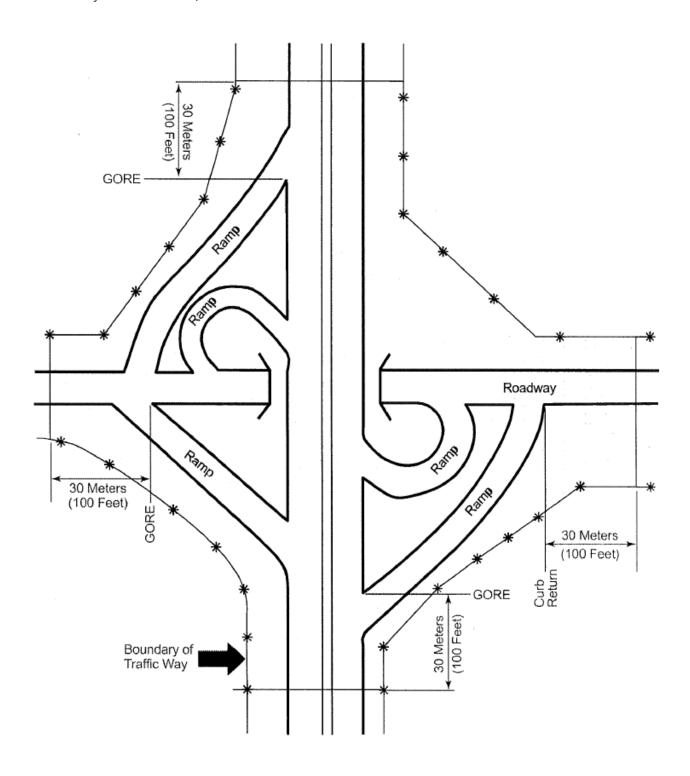
Source for images, tables, and charts shown in this appendix unless otherwise noted: *Model Minimum Uniform Crash Criteria, Fifth Edition*.



# APPENDIX L

# Diagram of an Interchange

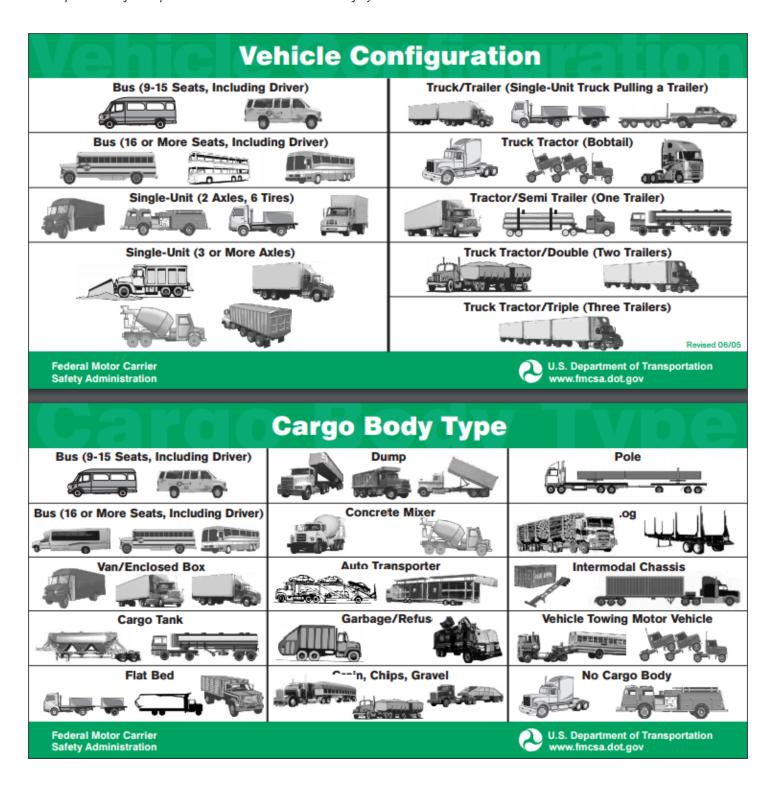
Source for images, tables, and charts shown in this appendix unless otherwise noted: *Model Minimum Uniform Crash Criteria, Fourth Edition.* 



## APPENDIX M

## Commercial Motor Vehicle Information

Source for images, tables, and charts shown in this appendix unless otherwise noted: *U.S. Department of Transportation's Federal Motor Carrier Safety Administration*.



## Truck and Bus Crashes Reportable to FMCSA

#### REPORT A TRAFFIC CRASH IF IT INVOLVES...

Any truck that has a gross vehicle weight rating (GVWR) of more than 10,000 pounds or a gross combination weight rating (GCWR) of more than 10,000 pounds used on public highways

Any motor vehicle with seating to transport nine (9) or more people, including the driver's seat

OR

<u>Any</u> motor vehicle displaying a hazardous materials placard (regardless of weight)

### ...AND RESULTS IN

A fatality: any person(s) killed in or outside of any vehicle (truck, bus, car, etc.) involved in the crash or who dies within 30 days of the crash as a result of an injury sustained in the crash

OR

An injury: any person(s) injured as a result of the crash who immediately receives medical treatment away from the crash scene

OR

A tow-away: any motor vehicle (truck, bus, car, etc.) disabled as a result of the crash and transported away from the scene by a tow truck or other vehicle

Revised 06/05

Federal Motor Carrier Safety Administration



U.S. Department of Transportation www.fmcsa.dot.gov

Crashes involving commercial motor vehicles and some non-commercial motor vehicles must be reported on a State's crash report and to the FMCSA. A commercial motor vehicle is any motor vehicle that is used on a trafficway for the transportation of goods, property, or people in interstate or intrastate commerce.

#### INCLUDED:

Here are some examples of commercial and noncommercial operations that, when involved in a crash, should be included if they meet the criteria on the front of this card.

#### **Examples:**

- A trucking company or individual owner/operator hauling the goods of a business for a fee.
- A manufacturing company hauling its own products to retail stores, or a retail store delivering products to its buyers.
- A farm hauling its produce to market.
- A motorcoach, airport shuttle, or hotel-owned shuttle bus or limousine service transporting passengers.
- A government-owned truck or bus.
- A school bus transporting students to/from school or school-related activities.
- A rented or leased truck used to transport either commercial or personal goods.
- A truck or truck tractor owned and operated for commerce being used for a personal trip or to transport personal goods.

#### **EXCLUDED:**

Here are some examples of non-commercial operations that, when involved in a crash, should <u>not</u> be included.

#### Examples:

- A non-commercial horse owner transporting hay bales from his pasture on one side of the road to his stables on the other side of the road in a truck with a GVWR greater than 10,000 pounds.
- A homeowner carrying recyclables to a drop-off point in a personally owned pickup truck with a GVWR greater than 10,000 pounds.
- 3. A family of 10 persons taking a trip in the family's 12-person van.
- A personally owned pickup truck hauling a boat, horse or utility trailer with a GCWR greater than 10,000 pounds not operating in commerce or as part of a business.
- A family operating a personally owned and registered recreational vehicle or motor home.

### How to Find the Responsible Carrier and Correct U.S. DOT Number

#### SIDE OF THE VEHICLE



In most cases, this is good for name and number. Look for a number preceded by the letters: USDOT.





#### DON'T STOP

...keep on looking...

The information on the side of the truck may not be the U.S. DOT number, name, or address of the responsible motor carrier.

#### DRIVER INTERVIEW

- 1. Is the vehicle leased or rented?
- Who is the motor carrier responsible for this load?
- Who is directing and controlling the movement of this vehicle?
- Where is the motor carrier's principal place of business?



LEASE AGREEMENT

identifies the name of the lessee and their U.S. DOT number.





#### DRIVER'S LOG

contains the name of the motor carrier and the city and State for the carrier's principal place of business.





SHIPPING PAPERS provide

the name of the motor carrier responsible for the load, but not the carrier's U.S. DOT number.

#### NOTE: VEHICLE REGISTRATION

Generally good for identifying owner or registrant. CAREFUL: This may not be the responsible carrier!

FMCSA WEB SITE: http://safer.fmcsa.dot.gov/CompanySnapshot.aspx

is an excellent source for verifying a motor carrier's U.S. DOT number, legal name, "doing business as" name, physical address, and phone number.

Federal Motor Carrier Safety Administration



U.S. Department of Transportation www.fmcsa.dot.gov

### How to Find the Responsible Carrier and Correct U.S. DOT Number

**EXAMPLE 1:** John Smith owns his own truck tractor, operating under John Smith Trucking. He contracts with White Manufacturing to take one of its trailers loaded with its goods from New York to Los Angeles.

Who is the Motor Carrier:

A. John Smith?

B. White Manufacturing?

John Smith is the motor carrier, because he is the entity that has agreed to carry this particular load.

Inc. shipping company for his return trip back to New York. Who is the Motor Carrier:

A. John Smith? B. K&S Trucking?

C. Intermodal Inc.?

John Smith is the motor carrier, because K&S transferred the responsibility of the load to John Smith.

**EXAMPLE 3:** John Smith, driving his truck tractor, leases his services to Polyester Chemical Company. Polyester directs Smith to deliver a semi-trailer

from New York to St. Louis.

Who is the Motor Carrier:

A. John Smith?

B. Polyester?

The lease agreement between Polyester and Mr. Smith makes Polyester the motor carrier responsible for the load.

**EXAMPLE 4:** John Smith is driving a tractor/semi-trailer owned and operated by ABC Trucking.

**EXAMPLE 2:** John Smith, driving his truck tractor, utilizes a

cargo broker, K&S Trucking, to obtain goods from Intermodal

Who is the Motor Carrier:

A. John Smith?

B. ABC Trucking?

ABC Trucking is the motor carrier. John Smith is just a driver for ABC Trucking.

**EXAMPLE 5:** John Smith is driving a tractor owned by ABC Trucking, which has been leased to XYZ Trucking. XYZ uses the tractor to pull XYZ trailers in its regular shipping service.

#### Who is the Motor Carrier:

A. John Smith?

B. ABC Trucking? C. XYZ Trucking?

In this case XYZ is the motor carrier, because XYZ is directing the carrying of the load.



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Federal Motor Carrier Safety Administration



# Reporting Hazardous Materials Information

#### ACCURATE REPORTING SAVES LIVES

Data you collect is used to calculate risk assessment, determine response methods, and develop regulations. Vehicles carrying hazardous materials are required to carry shipping papers containing the HM Class and ID number (or name). Your Accident or Collision Report/Supplement may ask the following hazardous materials questions (exact wording will vary by State):

1. DOES THE VEHICLE HAVE A HAZARDOUS MATERIALS PLACARD? YES NO

Placards should be on all four sides of the vehicle. For containers with bulk packages inside, if the required ID# marking is not visible, the transport vehicle must be marked on each side and each end. Some Common

Placards

2. ENTER THE FOUR-DIGIT NUMBER (OR NAME) FROM THE PLACARD 1993.

The four-digit number may be on an orange panel or a white "square-on-point" panel. If no four-digit number appears on the placard, enter the Placard Name.

1993 1760 1075

3. ENTER THE HAZARDOUS MATERIALS CLASS NUMBER FROM THE BOTTOM OF THE PLACARD 3.

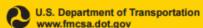
The Class Number can be a one- or two-digit number with a decimal in the middle. 5.1 It is critical for identifying and studying various types of hazardous materials involved in traffic crashes.

1993 OXIDIZER

4. WAS HAZARDOUS CARGO RELEASED? YES NO C

The intent of this question is to determine whether any of the placarded material was released or escaped from its transport container into the environment. Fuel or oil carried by the vehicle for its own use is NOT considered cargo and should not be reported in this section.

**Federal Motor Carrier** Safety Administration



# **APPENDIX N**

# **Sequence of Events**

CODE	DESCRIPTION	HARMFUL Y/N
1	Ran off road, right	N
2	Ran off road, straight	N
3	Ran off road, left	N
4	Crossed centerline (undivided)	N
5	Crossed median (divided)	N
6	Evasive action (swerve, panic braking, avoidance)	N
7	Downhill runaway	N
8	Cargo/equipment loss or shift	Υ
9	Equipment failure (tires, brakes, etc.)	N
10	Towed portion came apart (separation of units)	N
11	Loss of traction	N
12	Trailer fishtailing or swaying	N
13	Animal (avoided hitting)	N
20	Overturn/rollover	Υ
21	Jackknife	Υ
22	Non-contact vehicle (phantom vehicle avoidance)	N
23	Vehicle went airborne	N
24	Fell/jumped from vehicle	Υ
30	Hit by thrown or falling object	Υ
31	Collision with animal	Υ
32	Collision with non-motorist	Υ
33	Collision with vehicle in traffic/transport (moving)	Υ
34	Vehicle re-entering roadway	N
35	Collision with parked motor vehicle	Υ
36	Collision with work zone/maintenance equipment	Υ
37	Collision with railway vehicle/train	Υ
38	Struck by object/cargo/person from other vehicle	Υ
40	Collision with bridge overhead structure	Υ
	Collision with bridge pier or support	Υ
	Collision with bridge rail or parapet	Υ
	Collision with curb/island/raised median causing damage	Υ
	Collision with ditch	Υ
45	Collision with embankment	Υ

Harmful event
Non-harmful event

CODE	DESCRIPTION	HARMFUL Y/N
46	Collision with ground	Υ
47	Collision with culver/pipe opening	Υ
48	Collision with guardrail - face	Υ
49	Collision with guardrail - end	Υ
50	Collision with concrete traffic barrier (median or right side)	Υ
51	Collision with other traffic barrier (explain in narrative)	Υ
52	Collision with cable barrier	Υ
53	Collision with impact attenuator/crash cushion	Υ
54	Collision with utility pole/light support	Υ
55	Collision with traffic sign support	Υ
56	Collision with traffic signal support	Υ
57	Collision with other post/pole/support (explain in narrative)	Υ
58	Collision with fire hydrant	Υ
59	Collision with mailbox	Υ
60	Collision with tree	Υ
61	Collision with landscape/shrubbery	Υ
62	Collision with snow bank	Υ
63	Collision with fence	Υ
64	Collision with wall	Υ
65	Collision with building	Υ
70	Vehicle on fire or explodes	Υ
71	Immersion	Υ
72	Leave the scene of crash (Hit & run)	N
73	Eluding law enforcement	N
74	Gas inhalation/asphyxiation	Υ
75	Vehicle out of gear/rolled	N
94	Other pre-crash event (explain in narrative)	N
95	Other non-collision event (explain in narrative)	N
96	Collision with other non-fixed object (explain in narrative)	Υ
97	Collision with other fixed object (explain in narrative)	Υ
98	Other (explain in narrative)	N
	Unknown (don't know all events due to vehicle left scene or it is	
99	unknown what was hit)	Υ

Harmful event
Non-harmful event

# **TEST YOUR CRASH KNOWLEDGE**

#### TRUE OR FALSE

- 1. A collision is considered legal intervention if a peace officer investigates.
- 2. A vehicle losing control on a roadway and coming to a rest in a parking lot is an example of a "Private property" crash.
- 3. If an officer investigates a two-car hit and run crash in which one vehicle immediately flees the scene, the officer should record both units on the crash report.
- 4. If I don't know how many people were in the fleeing vehicle, I should leave the "Total Occupants" field empty.
- When a vehicle is abandoned at a crash scene, the "Total Occupants" field should be left blank.
- 6. A negative result on a driver's drug or alcohol test should be recorded on the crash report.
- A traffic control device indicating an intersection (traffic signal, stop sign, yield sign, etc.) means the "Type of Roadway Junction/Feature" can be code 1 "No special feature."
- 8. A bicycle is considered a unit.
- 9. When a motor vehicle and train are involved in a crash, the train engineer should be entered in the driver's name field.
- 10. The "Cargo Body Type" of code 2 "Van/Enclosed box" is used when a "Vehicle's Configuration" is code 4 or code 5 "Van/Minivan or any buses" (vehicle configuration equals: 22, 23, 24, or 25).

- 11. A pickup truck (vehicle configuration is a code 2) can have a cargo body type of code 5 "Flatbed."
- 12. "Initial Travel Direction" refers to the direction of travel before the crash.
- 13. The VIN is important even if I have the vehicle's license plate number.
- 14. Using the location tool, I should locate a crash at the vehicle(s) final resting place.
- 15. A crash that occurs on private property does not need to be reported.
- 16. I should use an injury status of code 9 "Unknown" when I am not sure of the extent of injury.
- 17. When a pedestrian or bicyclist is involved, the "Manner of Crash/Collision" should be a code 1 "Noncollision."
- 18. The event sequence code 10 "Separation of units" is used when two vehicles collide and need to be pried apart.
- 19. Extent of damage code 4 "Disabling" is used when the cost of repair is greater than the value of the vehicle.
- 20. "Ran off road right" can be listed as the "First harmful event"

#### ANSWERS TO TEST YOUR CRASH KNOWLEDGE

- 1. **False**. The "Legal Intervention" designation requires action to have been taken by law enforcement that forces a pursuit to come to an end. This includes the use of vehicle barricades, spike strips, a pursuit intervention technique (PIT) maneuver, or other methods of ending the chase. The crash, however, will not be recorded on the fleeing party because the crash was an intentional act.
- False. Determining a crash's location is based on where the incident begins, not where it ends.
- 3. **True**. Even if a vehicle involved in a crash is not at the scene upon investigation, it should still be recorded as a unit.
- 4. False. Unless a vehicle is parked or slipped out of gear causing a collision, there must be at least one occupant indicated. Even if the vehicle has left the scene, someone was driving it.
- 5. **False.** Someone drove the vehicle to the point where the situation became unstable that would indicate there was at least one occupant. The "Total Occupants" field should never be left blank, so if it's clear a vehicle was driven to the crash scene, enter 1 in the "Total Occupants" field.
- 6. **True**. The lowa DOT reviews cases that are marked as being under the influence in the "Driver Condition" field so it is helpful to know why there are no results given.
- False. A traffic signal of some kind indicates there is an intersection or driveway present and should be marked accordingly.
- False. A bicycle is self-propelled and therefore is a nonmotorist and should be included in the "Non-motorist" section.
- 9. False. A train is not considered a motor vehicle so the engineer should not be indicated as a driver. However, a train is considered a unit, so do record the name of the railroad as the owner.
- 10. **False**. The "Van/Enclosed box" designation is used only for cargo-carrying vehicles, which excludes vans and buses.

- 11. **False**. A pickup may be pulling a code 12 "Boat" or a code 10 "Small utility trailer", but not a code 5 "Flatbed," as that is in reference to a semi.
- 12. **True**. If a vehicle is struck while executing a turn, the direction of travel is the direction before initiating the turn.
- 13. **True**. In the event a license plate is on a vehicle it's not registered to be on, the VIN can help determine the vehicle has been correctly identified.
- False. Location data needs to indicate where the unstable event started.
- 15. **False**. lowa law does not distinguish where the crash occurs for it to be reportable, only if there is \$1,500 or more damage and/or injury and/or fatalities.
- 16. **False**. The use of code 9 for "Injury Status" is not helpful when trying to use data for various programs used for safety issues. Refer to <u>page 49</u> for an explanation of injury codes.
- 17. **True**. Pedestrians or bicyclists are considered non-motorists; the noncollision code is used when only one unit is involved in a crash.
- 18. **False**. "Separation of units" is used on events when a cargo body detaches from the vehicle pulling it (e.g., if a semitrailer separates from the tractor pulling it).
- 19. **False**. "Extent of Damage" of code 4 "Disabling" is damage that prevents departure of a motor vehicle from the scene of the crash in its usual manner in daylight after simple repairs.
- 20. **False.** "Ran off road right" is not a harmful event. A harmful event must cause damage or injury. Running off the road to the right can lead to a harmful event, but just running off the road is not a harmful event.

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