



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

*** *** ***



AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123

CASE SUMMARY

PSU 11 CASE NO. 111A TYPE OF ACCIDENT car/truck head on

A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

(Provide a summary of the accident sequence as well as any particular event of the accident that is noteworthy. Injury mechanism and vehicle crashworthiness is the focus, not driver culpability. Do not include any personal identifiers. Use reverse side if needed.)

V₁ was WB when he lost control, left the roadway to the left, crossed the median and into the path of an EB truck. V₁ & V₂ were towed due to damage. Driver of V₁ was killed.

B. VEHICLE PROFILE(S)

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage		Component Failure
			Damage Plane	Severity Description	
01	intermediate	1990/Ford/Taurus	Front	major	F-L door hinge & latch strikes
02	tractor-trailer	1986/white/CBE conventional	Front	moderate	unknown

C. PERSON PROFILE(S)

Vehicle No.	Person Role	Seat Position	Restraint Use	Most Severe Injury			
				Body Region	Lesion	AIS	Injury Source
01	Driver	F-left	lap & shoulder	throat	amputation	6	truck bumper

DO NOT SANITIZE THIS FORM



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National Highway Traffic Safety
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NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

ACCIDENT COLLISION DIAGRAM

PSU No. 1

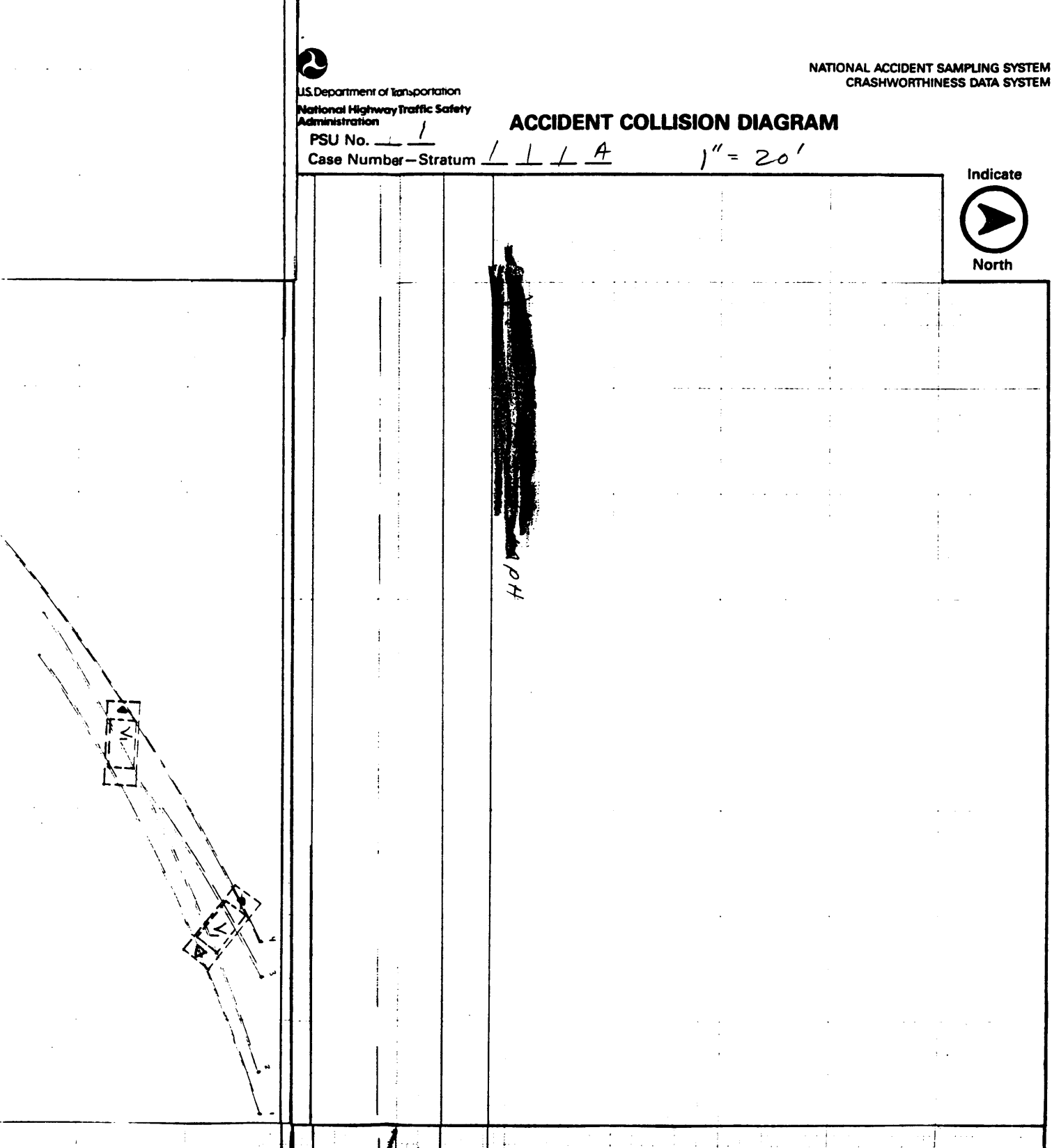
Case Number - Stratum 1 1 1 A

1" = 20'

Indicate



North



HPH

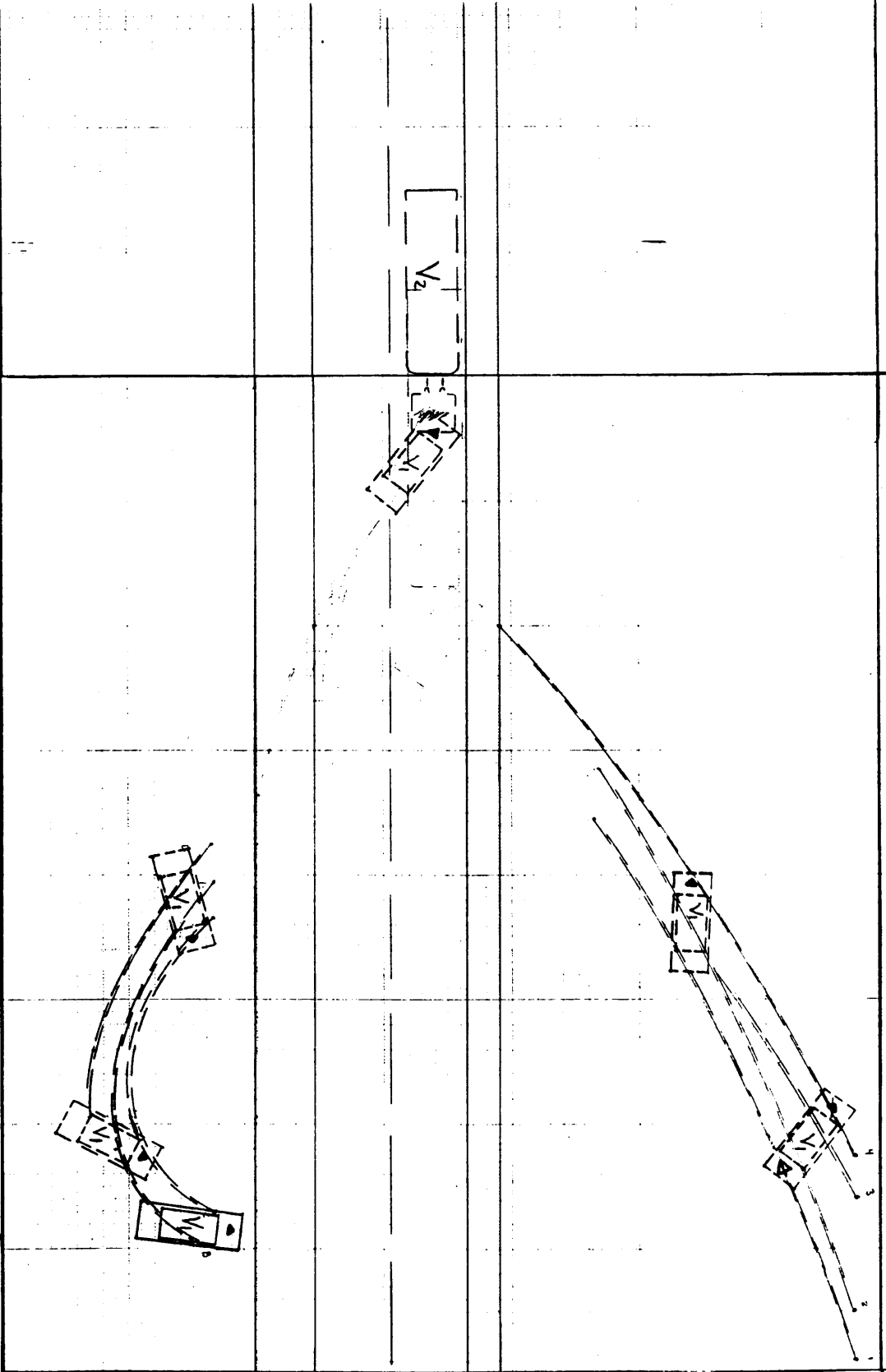


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ACCIDENT

PSU No. 11

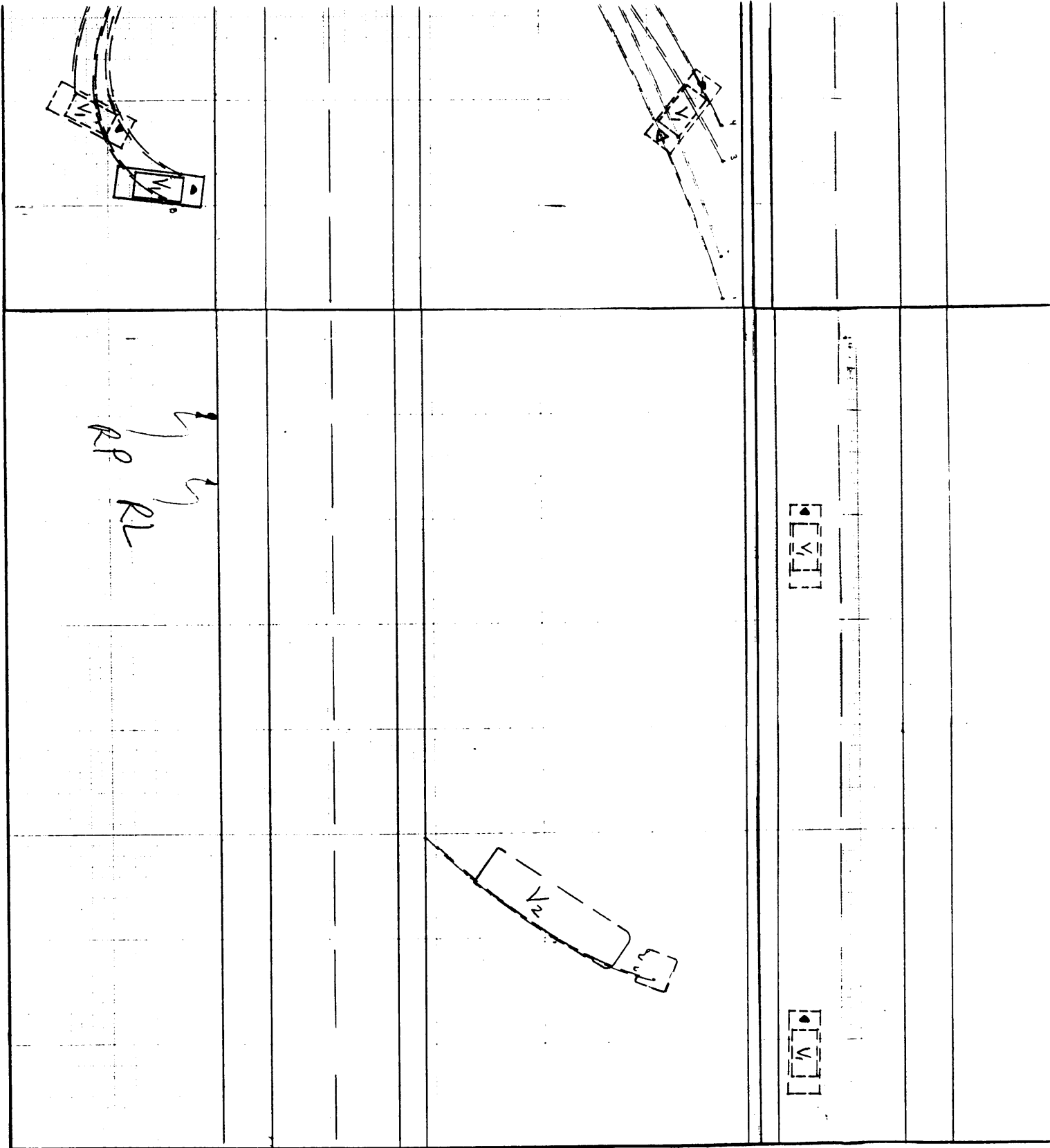
Case Number - Stratum 1111



~~REDACTED~~
PH

Handwritten notes: 4-5, RL, RP

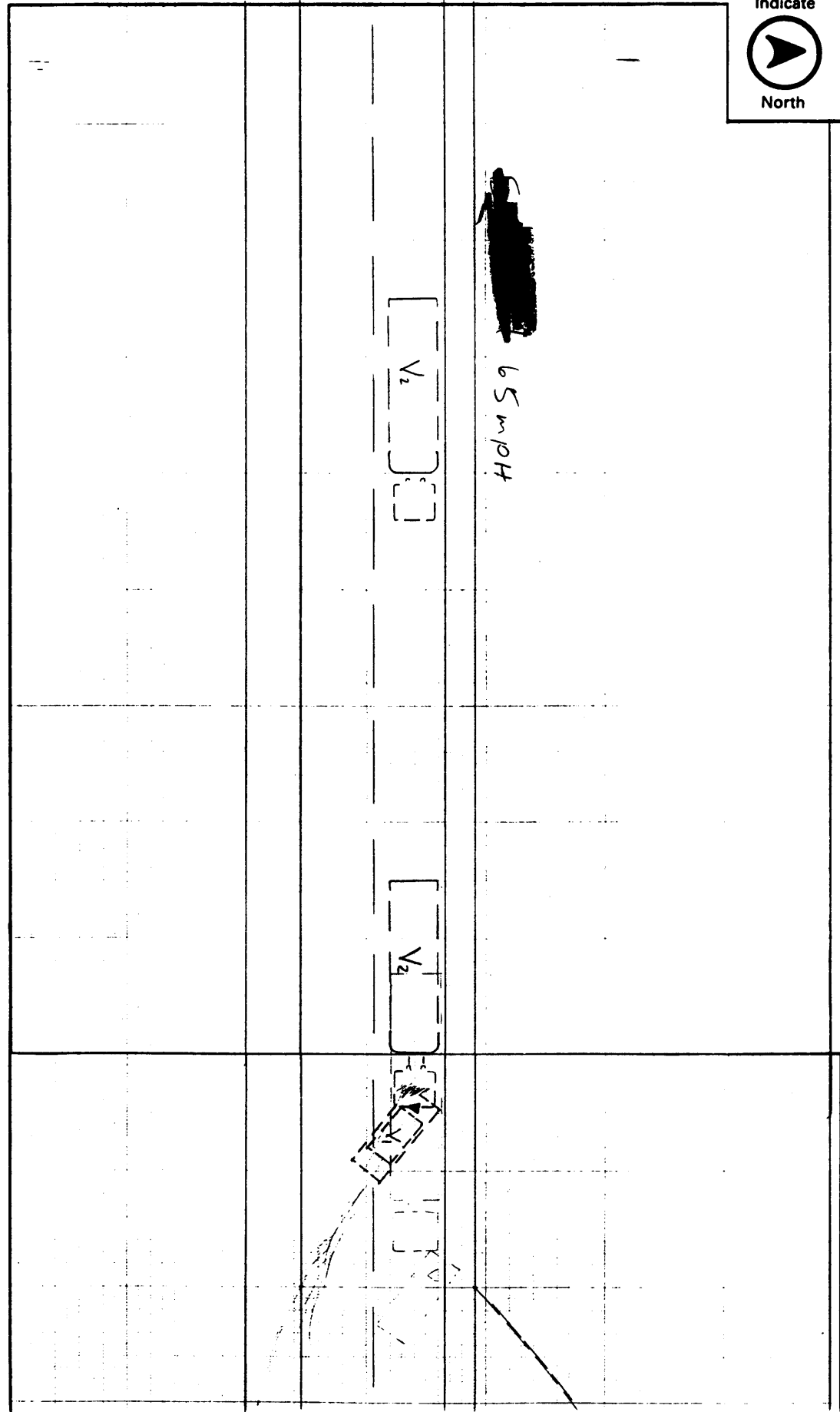




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ACCIDENT COLLISION DIAGRAM

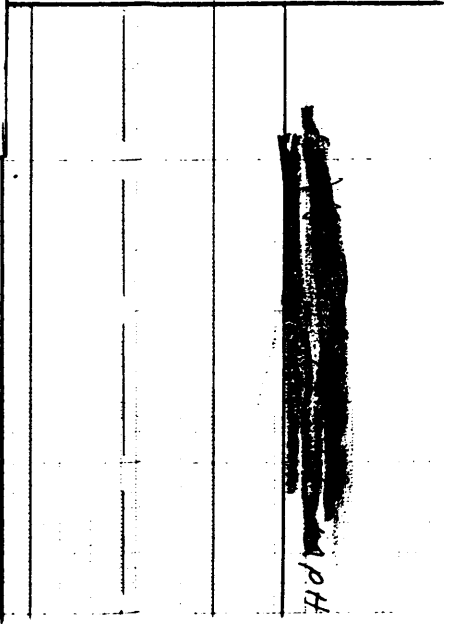
PSU No. 11
Case Number - Stratum 111A 1" = 20'



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PSU No. 11
Case Number - Stratum 111A

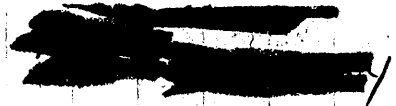
ACCIDENT



A
N

111A

Slope 0/48"



WR

④ ③ ② ①

EB

wind

FLUID SPILL

V₁

V₂

245'

38'

YELLOW LINE

79'

RP

RL edge of pavement

546'

o





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Administration

ACCIDENT COLLISION MEASUREMENT TABLE

BEST AVAILABLE COPY

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number 11 Case Number - Stratum 111A

ACCIDENT COLLISION DIAGRAM		CRASH DATA			
<p>LEVEL I PHYSICAL EVIDENCE ABSENT</p> <p>To be accomplished when there is no physical evidence present at the scene:</p> <ul style="list-style-type: none"> *approximate vehicle orientation at impact and final rest *applicable road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, etc.) *applicable traffic controls (e.g., speed limit) *north arrow placed on diagram *sketch required 	<p>LEVEL II (Cont'd) accomplished when physical evidence is present:</p> <ul style="list-style-type: none"> *document reference point and reference line relative to physical features present at the scene *scaled documentation of all accident induced physical evidence *scaled documentation of all roadside objects contacted *roadway surface type and condition of applicable roadways *grade measurements for all applicable roadways *scaled representations of the vehicle(s) at pre-impact, impact, and final rest based upon either: <ul style="list-style-type: none"> a) physical evidence, or b) reconstructed accident dynamics 	<p>VEH. #1 VEH. #2 VEH. #3</p> <p>Heading Angle <u>310</u> <u>90°</u> _____</p> <p>Surface Type <u>45F/ALT</u> → _____</p> <p>Surface Condition <u>DRY</u> → _____</p> <p>Grade Measurement (v/h) <u>0/48</u> → _____</p>			
<p>LEVEL II PHYSICAL EVIDENCE PRESENT</p> <p>In addition to the Level I tasks noted above, the following must be</p>					

Reference Point: Reflector post 546'
W of Billboard Reference Line: S edge of ~~_____~~

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
+ POI SCATCH MARKS skids V _{1,2}	174 W	≈ 27N ^{unable to measure} _____ (SUNDAY)
+ INTERMEDIATE SCATCH MARKS FLUID SPILL V ₁	139 W	9' N
+ END SCATCH MARKS ON PAVEMENT V ₁	113 W	0
+ BEGIN SKID OFF PAVEMENT A V ₁	105 W	7.2 S
+ " " " " B V ₁	98 W	7.2 S
+ " " " " C V ₁	93 W	7.2 S
+ Intermediate skid off pavement C V ₁	61 W	19' S
+ " " " " B V ₁	61 W	22.3 S
+ " " " " A V ₁	61 W	25 S
+ End skid off pavement A V ₁	56 W	22.4 S
+ " " " " C V ₁	46 W	6.6' S
+ " " " " B V ₁	40 W	6.4



ACCIDENT FORM

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NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 11
2. Case Number - Stratum 111A

IDENTIFICATION

3. Number of General Vehicle Forms Submitted 02
4. Date of Accident (Month, Day, Year) [REDACTED] 9 0
5. Time of Accident 1400

Code reported military time of accident.

NOTE: Midnight = 2400
Unknown = 9999

SPECIAL STUDIES INDICATORS

Check (✓) each special study (SS12-SS16 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. SS12 Not Active 0
7. SS13 AOPS 0
8. SS14 _____ 0
9. SS15 _____ 0
10. SS16 _____ 0

NUMBER OF EVENTS

11. Number of Recorded Events in This Accident 02

Code the number of events which occurred in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class of Vehicle	General Area of Damage
12. <u>0 1</u>	13. <u>01</u>	14. <u>03</u> ^{106"}	15. <u>F</u>	16. <u>02</u>	17. <u>24</u>	18. <u>F</u>
19. <u>0 2</u>	20. <u>01</u>	21. <u>03</u>	22. <u>L</u>	23. <u>02</u>	24. <u>24</u>	25. <u>F</u>
26. <u>0 3</u>	27. _____	28. _____	29. _____	30. _____	31. _____	32. _____
33. <u>0 4</u>	34. _____	35. _____	36. _____	37. _____	38. _____	39. _____
40. <u>0 5</u>	41. _____	42. _____	43. _____	44. _____	45. _____	46. _____

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENTS SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase = 100")
- (02) Compact (wheelbase = 100"-104")
- (03) Intermediate (wheelbase = 105"-109")
- (04) Full size (wheelbase = 110"-114")
- (05) Largest (wheelbase > 115")
- (09) Unknown passenger car size
- (11) Short utility vehicle
- (12) Truck based utility (< 10,000 lbs GVWR)
- (13) Passenger van (< 10,000 lbs GVWR)
- (14) Other van (< 10,000 lbs GVWR)
- (15) Pickup truck (< 10,000 lbs GVWR)
- (18) Other truck (< 10,000 lbs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 10,000 lbs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDC APPLICABLE AND OTHER VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

TDC APPLICABLE VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle number

Noncollision

- (31) Overturn - rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):

- (35) Noncollision injury
- (38) Other noncollision (specify):

(39) Noncollision - details unknown

Collision with Fixed Object

- (41) Tree (≤ 4 inches in diameter)
- (42) Tree (> 4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 4 inches in diameter)
- (51) Pole or post (> 4 but ≤ 12 inches in diameter)
- (52) Pole or post (> 12 inches in diameter)
- (53) Pole or post (diameter unknown)

- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):

(69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance (specify):

- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):

(89) Unknown nonfixed object

(98) Other event (specify):

(99) Unknown event or object

OCCUPANT RELATED

- 16. Driver Presence in Vehicle 1
 - (0) Driver not present
 - (1) Driver present
 - (9) Unknown
- 17. Number of Occupants This Vehicle 01
 - (00-96) Code actual number of occupants for this vehicle
 - (97) 97 or more
 - (99) Unknown
- 18. Number of Occupant Forms Submitted 01

- 24. Rollover 0
 - (0) No rollover (no overturning)

Rollover (primarily about the longitudinal axis)

 - (1) Rollover, 1 quarter turn only
 - (2) Rollover, 2 quarter turns
 - (3) Rollover, 3 quarter turns
 - (4) Rollover, 4 or more quarter turns (specify):

 - (5) Rollover – end-over-end (i.e., primarily about the lateral axis)
 - (9) Rollover (overturn), details unknown

VEHICLE WEIGHT ITEMS

- 19. Vehicle Curb Weight 03,000
 - 2956 Code weight to nearest 100 pounds.
 - (010) Less than 1050 pounds
 - (135) 13,500 lbs or more
 - (999) Unknown

Source: [REDACTED]
- 20. Vehicle Cargo Weight 000
 - 0 Code weight to nearest 100 pounds.
 - (00) Less than 50 pounds
 - (97) 9,650 lbs or more
 - (99) Unknown

OVERRIDE/UNDERRIDE (THIS VEHICLE)

- 25. Front Override/Underride (this vehicle) 7
- 26. Rear Override/Underride (this vehicle) 0
 - (0) No override/underride, or not an end-to-end impact

Override (see specific CDC)

 - (1) 1st CDC
 - (2) 2nd CDC
 - (3) Other not automated CDC (specify):

Underride (see specific CDC)

 - (4) 1st CDC
 - (5) 2nd CDC
 - (6) Other not automated CDC (specify):

 - (7) Medium/heavy truck override
 - (9) Unknown

RECONSTRUCTION DATA

- 21. Towed Trailing Unit 0
 - (0) No towed unit
 - (1) Yes – towed trailing unit
 - (9) Unknown
- 22. Documentation of Trajectory Data for This Vehicle 1
 - (0) No
 - (1) Yes
- 23. Post Collision Condition of Tree or Pole (for Highest Delta V) 0
 - (0) Not collision (for highest delta V) with tree or pole
 - (1) Not damaged
 - (2) Cracked/sheared
 - (3) Tilted <45 degrees
 - (4) Tilted ≥45 degrees
 - (5) Uprooted tree
 - (6) Separated pole from base
 - (7) Pole replaced
 - (8) Other (specify):

 - (9) Unknown

HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V

- Values: (000)-(359) Code actual value
- (997) Noncollision
 - (998) Impact with object
 - (999) Unknown
- 27. Heading Angle for This Vehicle 310
 - 28. Heading Angle for Other Vehicle 090

Category	Configuration	ACCIDENT TYPES (Includes Intent)				
I. Single Driver	A. Right Roadside Departure	01 DRIVE OFF ROAD	02 CONTROL/ TRACTION LOSS	03 AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN
	B. Left Roadside Departure	06 DRIVE OFF ROAD	07 CONTROL/ TRACTION LOSS	08 AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN
	C. Forward Impact	11 PARKED VEH.	12 STA. OBJECT	13 PEDESTRIAN/ ANIMAL	14 END DEPARTURE	15 SPECIFICS OTHER
II. Same Trafficway Same Direction	D. Rear-End	20 STOPPED 21, 22, 23	24 SLOWER 25, 26, 27	28 DECEL. 29, 30, 31	30 SPECIFICS OTHER	(EACH • 32) SPECIFICS UNKNOWN
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	38 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	(EACH • 42) (EACH • 43) SPECIFICS OTHER SPECIFICS UNKNOWN
	F. Sideswipe Angle	44 SPECIFICS OTHER	46 SPECIFICS OTHER	(EACH • 48) SPECIFICS OTHER	(EACH • 49) SPECIFICS UNKNOWN	
III. Same Trafficway Opposite Direction	G. Head-On	50 LATERAL MOVE	(EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN		
	H. Forward Impact	54 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH OBJECT	(EACH • 62) (EACH • 63) SPECIFICS OTHER SPECIFICS UNKNOWN
	I. Sideswipe/ Angle	64 LATERAL MOVE	(EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOWN		
IV. Change Trafficway Vehicle Turning	J. Turn Across Path	68 INITIAL OPPOSITE DIRECTIONS	70 INITIAL SAME DIRECTIONS	72 SPECIFICS OTHER	(EACH • 74) (EACH • 75) SPECIFICS UNKNOWN	
	K. Turn Into Path	76 TURN INTO SAME DIRECTION	78 TURN INTO OPPOSITE DIRECTIONS	80 SPECIFICS OTHER	(EACH • 84) (EACH • 85) SPECIFICS UNKNOWN	
V. Intersecting Paths (Vehicle Damage)	L. Straight Paths	86 SPECIFICS OTHER	88 SPECIFICS OTHER	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN	
VI. Miscellaneous	M. Backing Etc.	92 BACKING VEH.	93 OTHER VEH. OR OBJECT	98 Other Accident Type 99 Unknown Accident Type 00 No Impact		



U.S. Department of Transportation
National Highway Traffic Safety
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EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number LL 3. Vehicle Number 01
2. Case Number - Stratum LL1A

VEHICLE IDENTIFICATION

VIN 1FACP52U0LG Model Year 1990
Vehicle Make (specify): FORD Vehicle Model (specify): TAURUS

LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L	Location of Maximum Crush
01	Drift at front corner	same as direct	Between C₂, C₃ (RAIL)
02	side at rear corner	same as direct	C ₁
01	front bumper @ corner	same as direct	C ₁

CRUSH PROFILE

NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure C₁ to C₆ from driver to passenger side in front or rear impacts and rear to front in side impacts.

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

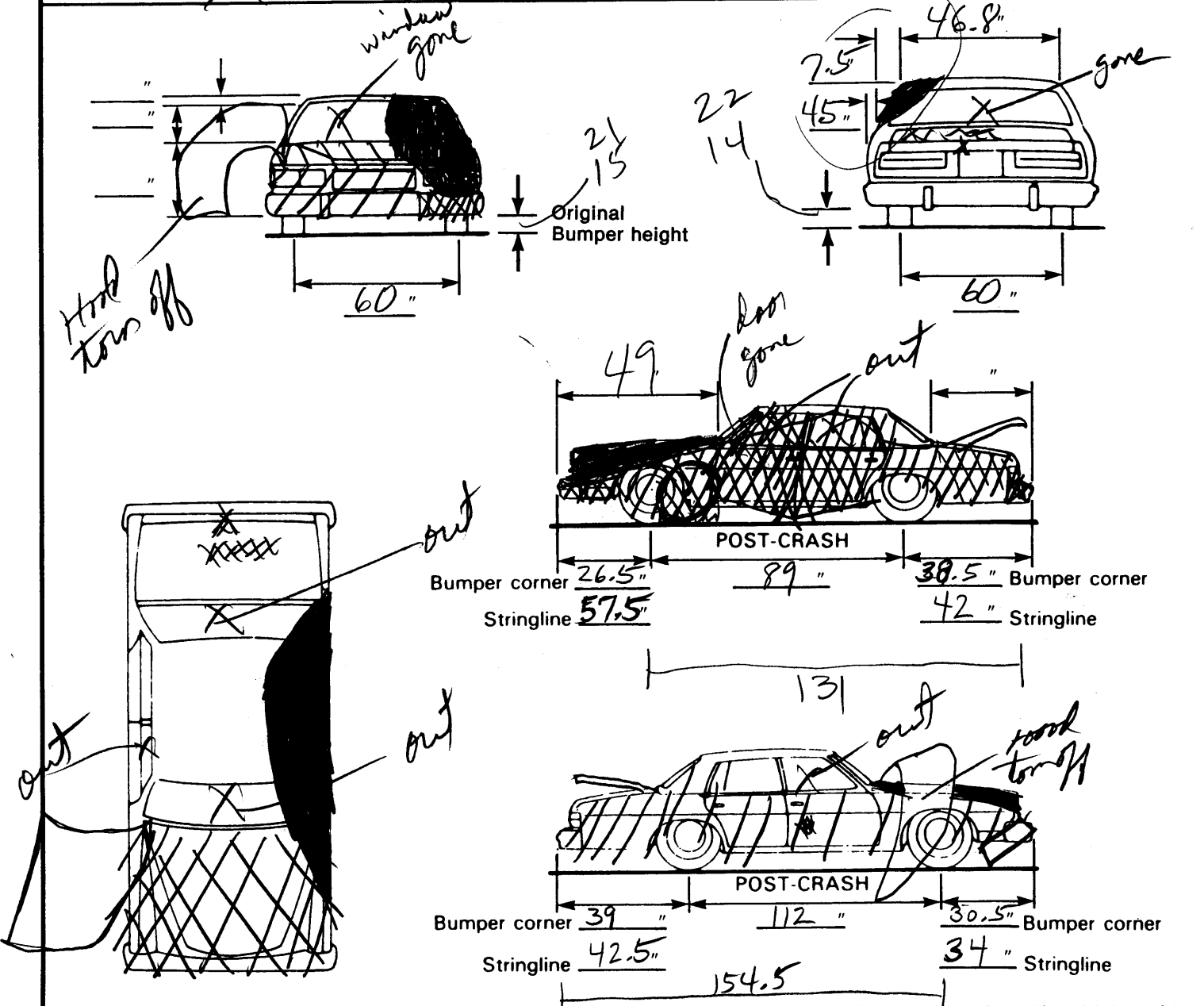
Use as many lines/columns as necessary to describe each damage profile.

Specific Impact Number	Plane of C-Measurements	Direct Damage		Field L	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	±D
		Width (CDC)	Max Crush								
01	above sill	104	33.5	106	0	25.5	22	10.5	15	3	
01	Actual Crush at sill	104	12"	106	0	7	9	14			
02	mid Panel level	24.5	4.75	40.75	4.75	3	3.5	3.5	1.75	1	-82.75
	free space		2		2	1	1	1	1	1	
02	Actual Crush	24.5	2.75	40.75	2.75	2	2.5	2.5	.75	0	-82.75
01	bumper level	30	31	47	31	24	23.5	6.5	3.75	3.5	-15.5
	free space		6		6	2.5	.5	.5	2.5	6	
01	Actual crush	30	25	47	25	21.5	23	6	1.25	0	-15.5

HS Form 435A (Rev. 1/90) front struts set 35.5" from approximate center of V₁

VEHICLE DAMAGE SKETCH

<p>TIRE – WHEEL DAMAGE</p> <p>a. Rotation physically restricted</p> <p>RF <u>2</u></p> <p>LF <u>2</u></p> <p>RR <u>2</u></p> <p>LR <u>2</u></p> <p>b. Tire deflated</p> <p>RF <u>2</u></p> <p>LF <u>1</u></p> <p>RR <u>2</u></p> <p>LR <u>1</u></p> <p>(1) Yes (2) No (8) NA (9) Unk.</p>	<p>ORIGINAL SPECIFICATIONS</p> <p>Wheelbase <u>106</u></p> <p>Overall Length <u>188.4</u></p> <p>Maximum Width <u>70.8</u></p> <p>Curb Weight <u>2956</u></p> <p>Average Track <u>61.1</u></p> <p>Front Overhang <u>40.5</u></p> <p>Rear Overhang <u>42</u></p> <p>Engine Size: cyl./ displ. <u>V6 3LEFZ</u></p> <p>Undeformed End Width <u>61 undamaged vehicle</u></p>	<p>WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only)</p> <p>RF ± <u> </u></p> <p>LF ± <u> </u></p> <p>RR ± <u> </u></p> <p>LR ± <u> </u></p> <p>Within ±5 degrees</p>
<p>TYPE OF TRANSMISSION</p> <p><input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic</p>		<p>DRIVE WHEELS</p> <p><input checked="" type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD</p>
		<p>Approximate Cargo Weight <u>0</u></p>



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page. Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

INTERIOR VEHICLE FORM

1. Primary Sampling Unit Number LL
 2. Case Number - Stratum LLLA
 3. Vehicle Number 01

INTEGRITY

4. Passenger Compartment Integrity 98

(00) No integrity loss

Yes, Integrity Was Lost Through

(01) Windshield
 (02) Door (side)
 (03) Door/hatch (rear)
 (04) Roof
 (05) Roof glass
 (06) Side window
 (07) Rear window
 (08) Roof and roof glass
 (09) Windshield and door (side)
 (10) Windshield and roof
 (11) Side and rear window
 (12) Windshield and side window
 (13) Door and side window
 (98) Other combination of above (specify):
09, 11

(99) Unknown

Door, Tailgate Or Hatch Opening

5. LF 2 6. RF 3 7. LR 3 8. RR 1 9. TG/H 0

(0) No door/gate/hatch
 (1) Door/gate/hatch remained closed and operational
 (2) Door/gate/hatch came open during collision
 (3) Door/gate/hatch jammed shut
 (8) Other (specify):
and by emergency people

(9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then Code 0.

10. LF 6 11. RF 0 12. LR 0 13. RR 0 14. TG/H 0

(0) No door/gate/hatch or door not opened

Door, Tailgate, or Hatch Came Open During Collision:

(1) Door operational (no damage)
 (2) Latch/striker failure due to damage
 (3) Hinge failure due to damage
 (4) Door structure failure due to damage
 (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
 (6) Latch/striker and hinge failure due to damage
 (8) Other failure (specify):

(9) Unknown

GLAZING

Glazing Damage from Impact Forces

15. WS 3 16. LF 6 17. RF 6 18. LR 6 19. RR 0
 20. BL 6 21. Roof 8 22. Other 6 - Drive

(0) No glazing damage from impact forces
 (2) Glazing in place and cracked from impact forces
 (3) Glazing in place and holed from impact forces
 (4) Glazing out-of-place (cracked or not) and not holed from impact forces
 (5) Glazing out-of-place and holed from impact forces
 (6) Glazing disintegrated from impact forces
 (7) Glazing removed prior to accident
 (8) No glazing
 (9) Unknown if damaged

Glazing Damage from Occupant Contact

23. WS 0 24. LF 0 25. RF 0 26. LR 0 27. RR 0
 28. BL 0 29. Roof 0 30. Other 0

(0) No occupant contact to glazing or no glazing
 (1) Glazing contacted by occupant but no glazing damage
 (2) Glazing in place and cracked by occupant contact
 (3) Glazing in place and holed by occupant contact
 (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
 (5) Glazing out-of-place by occupant contact and holed by occupant contact
 (6) Glazing disintegrated by occupant contact
 (9) Unknown if contacted by occupant

If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0

Type of Window/Windshield Glazing

31. WS 1 32. LF 2 33. RF 2 34. LR 2 35. RR 0
 36. BL 2 37. Roof 0 38. Other 2

(0) No glazing contact and no damage, or no glazing
 (1) AS-1 - Laminated
 (2) AS-2 - Tempered
 (3) AS-3 - Tempered-tinted
 (4) AS-14 - Glass/Plastic
 (8) Other (specify):

(9) Unknown

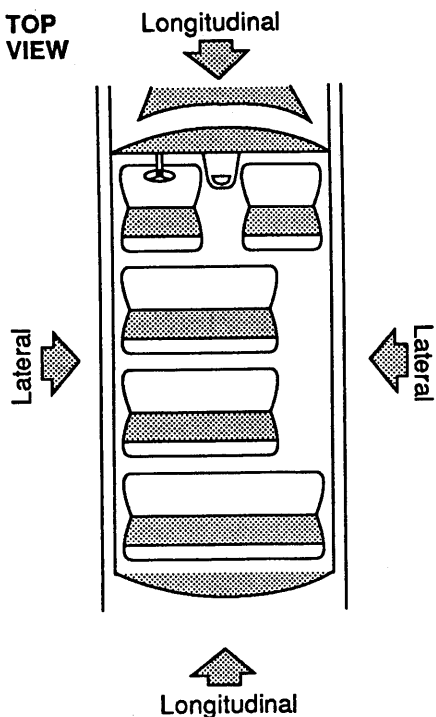
Window Preqrash Glazing Status

39. WS 1 40. LF 2 41. RF 2 42. LR 2 43. RR 0
 44. BL 1 45. Roof 0 46. Other 1

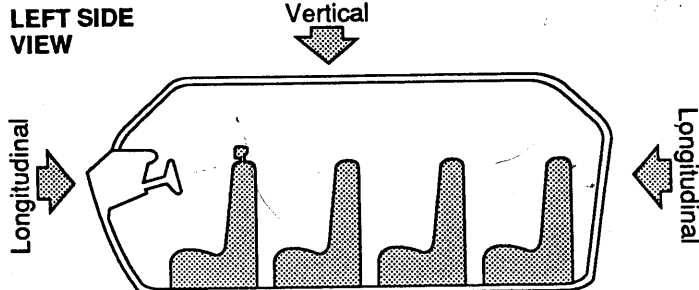
(0) No glazing contact and no damage, or no glazing
 (1) Fixed
 (2) Closed
 (3) Partially opened
 (4) Fully opened
 (9) Unknown

INTRUSION WORK SHEET

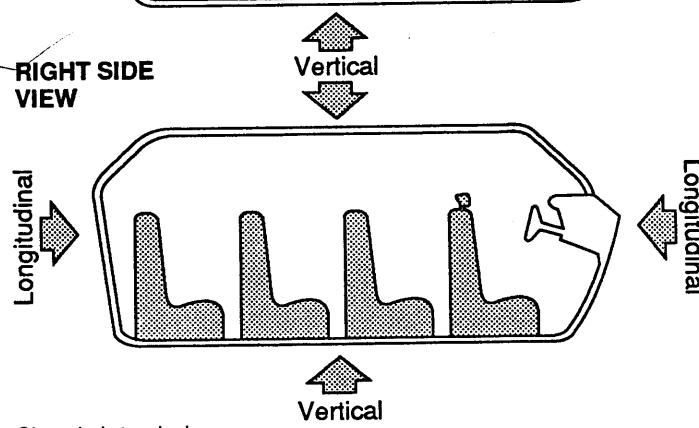
TOP VIEW



LEFT SIDE VIEW



RIGHT SIDE VIEW



Note: Sketch intruded areas

LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE - INTRUDED VALUE = INTRUSION	DOMINANT CRUSH DIRECTION
	steering wheel	intrusion is parallel to B pillar plane steering wheel is crushed into B side front seat	longitude
4	A pillar	crushed to \approx center line of vehicle 28 FROM @ EDGE OF BACK SEAT	lateral ✓
7,8,9	inst. panel	dist. from inst panel to B pillar is 4" = 24.75"	long ✓
3	B pillar	B pillar is crushed beyond center line of vehicle 33 FROM @ END OF BACK SEAT	lateral ✓
	self	crushed \approx 1/4 the inside width of vehicle 15 FROM @ END OF BACK SEAT	laterally ✓
5,6	Roof side rail	crushed to \approx center line of vehicle 26 FROM @ END OF BACK SEAT	lat, long ✓
	C pillar	crushed \approx 1/4 the inside width 9 FROM @ END OF BACK SEAT	lat ✓
11-13 21-23	Roof	- = 24"	vert. ✓
	tree pan	- = \approx 4"	long.
2	front seat back	front seat back is crushed into back seat 35"	long. ✓
	lower inst panel	rotated CCW \approx 60° 11 =	long.
	Front seat back	32" - 19" = 13"	long.
1	32 truck bumper	- = 35	long.
	w/s header / wind shield	- =	
		- =	

Document no more than the 15 most severe intrusions

Note: CENTER LINE IS LONGITUDINAL LINE

OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV 47-IV 86 blank.

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>1</u> <u>1</u>	48. <u>3</u> <u>2</u>	49. <u>6</u>	50. <u>2</u>
2nd	51. <u>2</u> <u>1</u>	52. <u>1</u> <u>9</u>	53. <u>6</u>	54. <u>2</u>
3rd	55. <u>2</u> <u>1</u>	56. <u>0</u> <u>7</u>	57. <u>6</u>	58. <u>3</u>
4th	59. <u>1</u> <u>1</u>	60. <u>0</u> <u>6</u>	61. <u>6</u>	62. <u>3</u>
5th	63. <u>1</u> <u>1</u>	64. <u>1</u> <u>3</u>	65. <u>6</u>	66. <u>3</u>
6th	67. <u>2</u> <u>1</u>	68. <u>1</u> <u>3</u>	69. <u>6</u>	70. <u>3</u>
7th	71. <u>1</u> <u>1</u>	72. <u>0</u> <u>2</u>	73. <u>6</u>	74. <u>2</u>
8th	75. <u>1</u> <u>2</u>	76. <u>0</u> <u>3</u>	77. <u>6</u>	78. <u>2</u>
9th	79. <u>1</u> <u>3</u>	80. <u>0</u> <u>4</u>	81. <u>6</u>	82. <u>2</u>
10th	83. <u>1</u> <u>2</u>	84. <u>1</u> <u>2</u>	85. <u>6</u>	86. <u>1</u>

LOCATION OF INTRUSION

- Front Seat
 (11) Left
 (12) Middle
 (13) Right

- Fourth Seat
 (41) Left
 (42) Middle
 (43) Right

- Second Seat
 (21) Left
 (22) Middle
 (23) Right

- (97) Catastrophic
 (98) Other enclosed area (specify):

- Third Seat
 (31) Left
 (32) Middle
 (33) Right

- (99) Unknown

INTRUDING COMPONENT

Interior Components

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan
- (06) A-pillar
- (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Door panel
- (12) Roof (or convertible top)
- (13) Roof side rail
- (14) Windshield
- (15) Windshield header
- (16) Window frame
- (17) Floor pan
- (18) Backlight header
- (19) Front seat back
- (20) Second seat back
- (21) Third seat back
- (22) Fourth seat back
- (23) Fifth seat back
- (24) Seat cushion
- (25) Back panel or door surface
- (26) Other interior component (specify):

- (27) Side panel - forward of the A-pillar
- (28) Side panel - rear of the A-pillar

Exterior Components

- (30) Hood
- (31) Outside surface of vehicle (specify):

- (32) Other exterior object in the environment (specify): truck V₂
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify): _____
- (99) Unknown

MAGNITUDE OF INTRUSION

- (1) ≥ 1 inch but < 3 inches
- (2) ≥ 3 inches but < 6 inches
- (3) ≥ 6 inches but < 12 inches
- (4) ≥ 12 inches but < 18 inches
- (5) ≥ 18 inches but < 24 inches
- (6) ≥ 24 inches
- (7) Catastrophic
- (9) Unknown

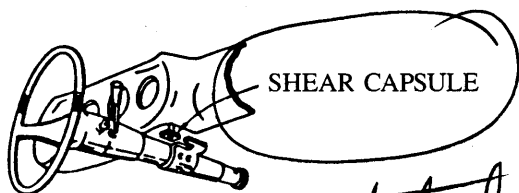
DOMINANT CRUSH DIRECTION

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

STEERING COLUMN WORKING DIAGRAMS

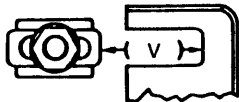
STEERING COLUMN COLLAPSE

Steering Column Shear Module Movement



SHEAR CAPSULE

Left —

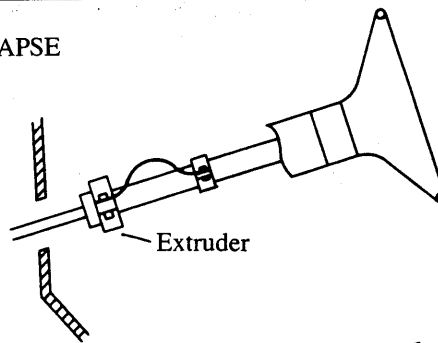


Right —

V = _____

Direction and Magnitude of Steering Column Movement

*total separation
unable to measure*



Extruder

After Compression

Flare Tube

Possible Remaining Starter Grooves At 6 and 12 o'clock

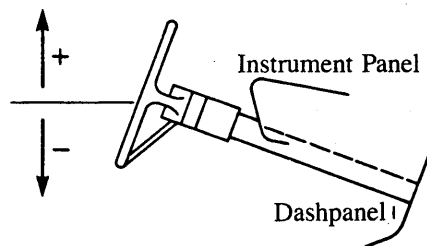
Extruder

Compression = Measurement A

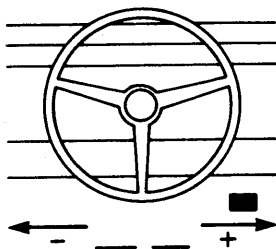
A = _____

STEERING COLUMN MOVEMENT

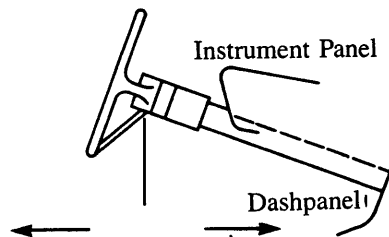
Vertical Movement



Lateral Movement



Longitudinal Movement



	COMPARISON VALUE	-	DAMAGED VALUE	=	MOVEMENT
VERTICAL			<i>unable to measure</i>	-	=
LATERAL			<i>Here is a great amount of lateral movement to the Right center of steering wheel is moved to center of vehicle</i>		
LONGITUDINAL			<i>movement back - even with B pillar.</i>	-	=

STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE	-	DAMAGED VALUE	=	DEFORMATION
		<i>crushed downward</i>	=	<i>4.5" out from hub</i>
			=	

NOTE center of steering wheel is intruded back so as to be even with B pillar plane

STEERING COLUMN

87. Steering Column Type 2

- (1) Fixed column
- (2) Tilt column
- (3) Telescoping column
- (4) Tilt and telescoping column
- (8) Other column type (specify):

(9) Unknown

If PDOF ≠ 11, 12 or 1, Then Code IV88-IV91 As 96

88. Steering Column Collapse Due to Occupant Loading 97

Code actual measured movement to the nearest inch. See coding manual for measurement technique(s).

- (00) No movement, compression, or collapse
- (01-19) Actual measured value
- (20) 20 inches or greater

Estimated movement from observation

- (81) Less than 1 inch
- (82) ≥ 1 inch but < 2 inches
- (83) ≥ 2 inches but < 4 inches
- (84) ≥ 4 inches but < 6 inches
- (85) ≥ 6 inches but < 8 inches
- (86) Greater than or equal to 8 inches
- (96) Not assessed (PDOF ≠ 11, 12, 1)
- (97) Apparent movement, value undetermined or cannot be measured or estimated
- (98) Nonspecified type column
- (99) Unknown

Direction And Magnitude of Steering Column Movement

89. Vertical Movement + 97

90. Lateral Movement + 84

91. Longitudinal Movement + 83

Code the actual measured movement to the nearest inch. See Coding Manual for measurement technique(s)

- (00) No steering column movement
- (± 01 – ± 49) Actual measured value
- (± 50) 50 inches or greater

Estimated movement from observation

- (± 81) ≥ 1 inch but < 3 inches
- (± 82) ≥ 3 inches but < 6 inches
- (± 83) ≥ 6 inches but < 12 inches
- (± 84) ≥ 12 inches
- (__ 96) Not assessed (PDOF ≠ 11, 12, 1)
- (__ 97) Apparent movement > 1 inch but cannot be measured or estimated
- (__ 99) Unknown

92. Steering Rim/Spoke Deformation 5

4.5 Code actual measured deformation to the nearest inch.

- (0) No steering rim deformation
- (1-5) Actual measured value
- (6) 6 inches or more
- (8) Observed deformation cannot be measured
- (9) Unknown

93. Location of Steering Rim/Spoke Deformation 09

(00) No steering rim deformation

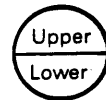
Quarter Sections

- (01) Section A
- (02) Section B
- (03) Section C
- (04) Section D



Half Sections

- (05) Upper half of rim/spoke
- (06) Lower half of rim/spoke
- (07) Left half of rim/spoke
- (08) Right half of rim/spoke



- (09) Complete steering wheel collapse
- (10) Undetermined location
- (99) Unknown

09 06
NASS CODING CHA
1st Review: 1E
2nd Review: Bottom of rim also bent

INSTRUMENT PANEL

94. Odometer Reading 999,000

miles – Code mileage to the nearest 1,000 miles

- (000) No odometer
- (001) Less than 1,500 miles
- (300) 299,500 miles or more
- (999) Unknown

Source: too badly damaged

95. Instrument Panel Damage from Occupant Contact? 0

- (0) No
- (1) Yes
- (9) Unknown

96. Knee Bolsters Deformed from Occupant Contact? 98

- (0) No
- (1) Yes
- (8) Not present
- (9) Unknown

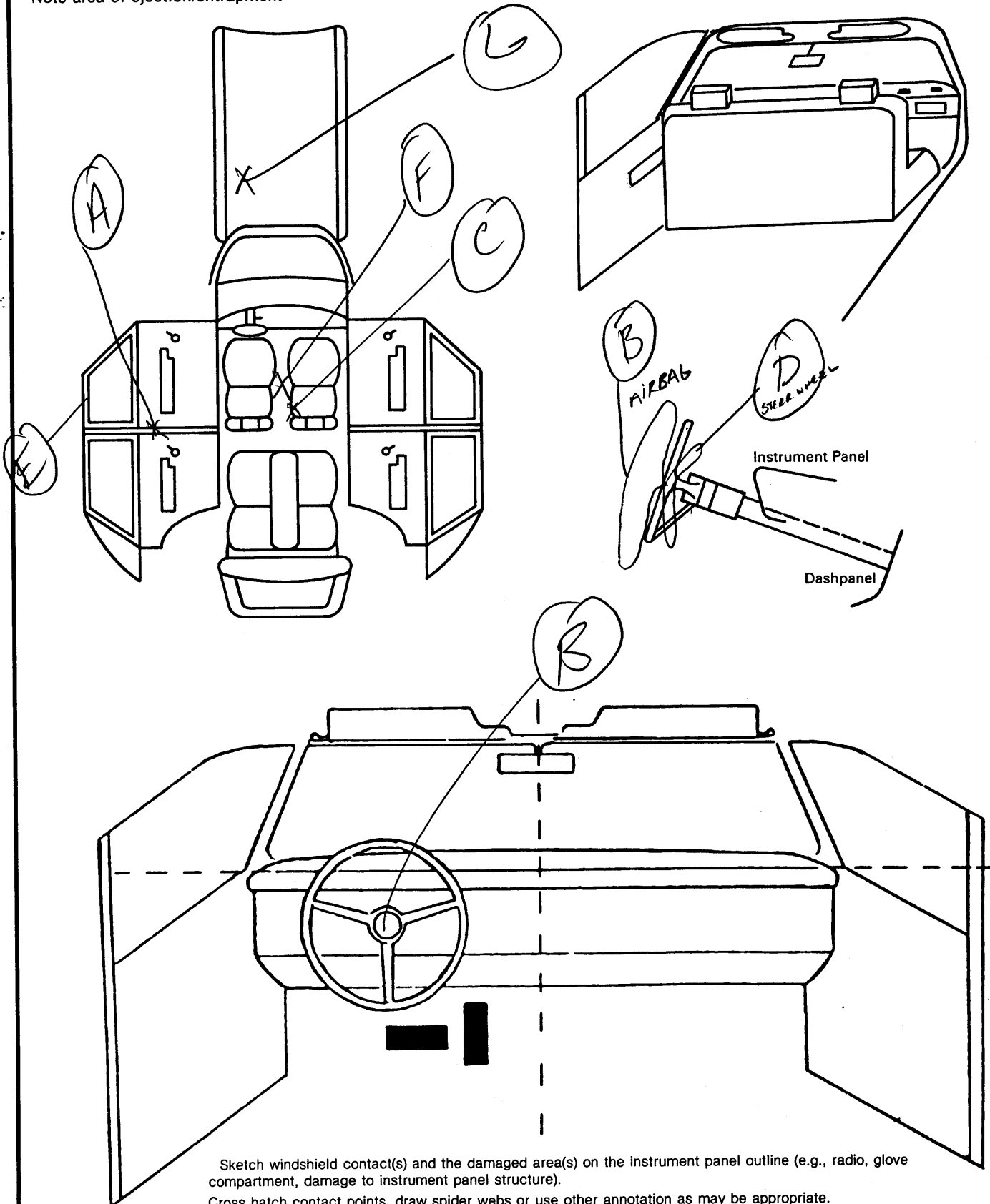
97. Did Glove Compartment Door Open During Collision(s)? 0

- (0) No
- (1) Yes
- (8) Not present
- (9) Unknown

NASS CODING CHA
1st Review: 1E
2nd Review: _____

VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure).

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

POINTS OF OCCUPANT CONTACT

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	23	01	Head	max intrusion into Pass. area	1
B	# 45	01	Chest	deployed airbag	1
C	40	01	(R) side	seat into driver area	2
D	04	01	Chest/hands	bent rim	2
E	52	01	head	max intrusion into Pass area	1
F	49	01	(R) Hip	hand arm rest - & crushed	2
G					
H					
I					
J					
K					
L					
M					
N					

CODES FOR INTERIOR COMPONENTS

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):
AIR BAG

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): _____

- (48) Child safety seat (specify): _____

- (49) Other interior object (specify):
Center arm rest

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): _____
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (37) Other right side object (specify): _____

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): _____

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): _____

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): _____
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify): _____
- (47) Interior loose objects

- (25) Left side window glass or frame

CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (4) Unknown

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F I R S T	Availability	/	/	/
	Function	4	/	/
	Failure	/	/	/

Automatic (Passive) Restraint System Availability

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify): _____
- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Restraint Function

- (0) Not equipped/not available

Automatic Belt

- (1) Automatic belt in use
- (2) Automatic belt not in use
- (3) Automatic belt use unknown

Air Bag

- (4) Airbag deployed during accident
- (5) Airbag deployed inadvertently just prior to accident
- (6) Deployed, accident sequence undetermined
- (7) Nondeployed
- (8) Unknown if deployed
- (9) Unknown

Did Automatic (Passive) Restraint Fail

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): _____
- (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
FIRST	Availability	4	0 prob 3	4
	Use	04	00	00
	Failure Modes	1	0	0
SECOND	Availability	4	3	4
	Use	00	00	00
	Failure Modes	0	0	0
THIRD	Availability			
	Use			
	Failure Modes			
OTHER	Availability			
	Use			
	Failure Modes			

Manual (Active) Belt System Availability

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available – type unknown
- (8) Other belt (specify):

(9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used – type unknown

(08) Other belt used (specify):

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat – type unknown
- (18) Other belt used with child safety seat (specify):

(99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):

- (6) Broken retractor
- (7) Combination of above (specify):

(8) Other manual belt failure (specify):

(9) Unknown

CHILD SAFETY SEAT FIELD ASSESSMENT

When a child safety seat is present enter the occupant's number in the first row and complete the column below the occupant's number using the codes listed below. Complete a column for each child safety seat present.

Occupant Number						
1. Type of Child Safety Seat						
2. Child Safety Seat Orientation						
3. Child Safety Seat Harness Usage						
4. Child Safety Seat Shield Usage						
5. Child Safety Seat Tether Usage						
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat					

1. Type of Child Safety Seat

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat
- (7) Other type child safety seat (specify):

- (8) Unknown child safety seat type
- (9) Unknown if child safety seat used

2. Child Safety Seat Orientation

- (00) No child safety seat
- Designed for Rear Facing for This Age/Weight
- (01) Rear facing
- (02) Forward facing
- (03) Other orientation (specify):

- (04) Unknown orientation
- Designed for Forward Facing for This Age/Weight
- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):

- (19) Unknown orientation
- Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight
- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):

- (29) Unknown orientation
- (99) Unknown if child safety seat used

3. Child Safety Seat Harness Usage

4. Child Safety Seat Shield Usage

5. Child Safety Seat Tether Usage

Note: Options Below Are Used for Variables 3-5.

- (00) No child safety seat
- Not Designed with Harness/Shield/Tether
- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used
- Designed with Harness/Shield/Tether
- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used
- Unknown if Designed with Harness/Shield/Tether
- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

6. Child Safety Seat Make/Model

(Specify make/model and occupant number)

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

not damaged by occupant

		Left	Center	Right
FIRST	Head Restraint Type/Damage	3 X	0	3
	Seat Type	06 X	06 X	06 X
	Seat Performance	6(A)	0	6(B)
SECOND	Head Restraint Type/Damage	1	0	1
	Seat Type	03	00	03
	Seat Performance	6(C)	6(C)	6(C)
THIRD	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
OTHER	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			

Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- (1) Integral – no damage
- (2) Integral – damaged during accident
- (3) Adjustable – no damage
- (4) Adjustable – damaged during accident
- (5) Add-on – no damage
- (6) Add-on – damaged during accident
- (8) Other (specify): _____
- (9) Unknown

Seat Type (This Occupant Position)

- (00) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify): _____
- (99) Unknown

Seat Performance (This Occupant Position)

- (0) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
 (A) B-pillar intrusion
 (B) Instrument panel intrusion
- (7) Combination of above (specify): _____
- (8) Other (specify): _____
- (9) Unknown

(C) front seat lock

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E. UNUSUAL OCCUPANT CONTACT PATTERN)

EJECTION/ENTRAPMENT DATA

Complete the following if the researcher has any indications that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occupant Assessment Form.

EJECTION No Yes

Describe indications of ejection and body parts involved in partial ejection(s):

Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						

Ejection

- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

Ejection Area

- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

- (7) Roof
- (8) Other area (e.g., back of pickup, etc.) (specify):

- (9) Unknown

Ejection Medium

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):

- (5) Integral structure
- (8) Other medium (specify):

- (9) Unknown

Medium Status (Immediately Prior to Impact)

- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

ENTRAPMENT No Yes

Describe entrapment mechanism: Possible entrapment by steering wheel and lower inst. panel

Component(s): _____

(Note in vehicle interior diagram)

11-111A ✓

26. Seat Type (This Occupant Position) 06 0 1
- (00) Occupant not seated or no seat
 (01) Bucket
 (02) Bucket with folding back
 (03) Bench
 (04) Bench with separate back cushions
 (05) Bench with folding back(s)
 (06) Split bench with separate back cushions
 (07) Split bench with folding back(s)
 (08) Pedestal (i.e., van type)
 (09) Other seat type (specify):

 (99) Unknown

NASS CODING CHANGE
 1st Review: 18
 2nd Review: _____

27. Seat Performance (This Occupant Position) 6
- (0) Occupant not seated or no seat
 (1) No seat performance failure(s)
 (2) Seat adjusters failed
 (3) Seat back folding locks failed
 (4) Seat track/anchors failed
 (5) Deformed by impact of occupant
 (6) Deformed by passenger compartment intrusion (specify):
B pillar intrusion

 (7) Combination of above (specify):

 (8) Other (specify):

 (9) Unknown

30. Child Safety Seat Orientation 0 0
- (00) No child safety seat
- Designed for Rear Facing for This Age/Weight
 (01) Rear facing
 (02) Forward facing
 (08) Other orientation (specify):

 (09) Unknown orientation
- Designed for Forward Facing for This Age/Weight
 (11) Rear facing
 (12) Forward facing
 (18) Other orientation (specify):

 (19) Unknown orientation
- Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight
 (21) Rear facing
 (22) Forward facing
 (28) Other orientation (specify):

 (29) Unknown orientation
- (99) Unknown if child safety seat used

31. Child Safety Seat Harness Usage 0 0
32. Child Safety Seat Shield Usage 0 0
33. Child Safety Seat Tether Usage 0 0
- Note: Options below applicable to Variables OA31-OA33.
 (00) No child safety seat

CHILD SAFETY SEAT

28. Child Safety Seat Make/Model 0 0 0
- (000) No child safety seat
 Applicable codes are found in your NASS CDS Data Collection, Coding, and Editing Manual
 (997) Other make/model (specify):

 (998) Unknown make/model
 (999) Unknown if child safety seat used

29. Type of Child Safety Seat 0
- (0) No child safety seat
 (1) Infant seat
 (2) Toddler seat
 (3) Convertible seat
 (4) Booster seat
 (7) Other type child safety seat (specify):

 (8) Unknown child safety seat type
 (9) Unknown if child safety seat used

- Not Designed with Harness/Shield/Tether
 (01) After market harness/shield/tether added, not used
 (02) After market harness/shield/tether used
 (03) Child safety seat used, but no after market harness/shield/tether added
 (09) Unknown if harness/shield/tether added or used
- Designed with Harness/Shield/Tether
 (11) Harness/shield/tether not used
 (12) Harness/shield/tether used
 (19) Unknown if harness/shield/tether used
- Unknown If Designed with Harness/Shield/Tether
 (21) Harness/shield/tether not used
 (22) Harness/shield/tether used
 (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used



OCCUPANT INJURY FORM

1. Primary Sampling Unit Number 11 3. Vehicle Number 01
 2. Case Number - Stratum 111A 4. Occupant Number 01

INJURY DATA-

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

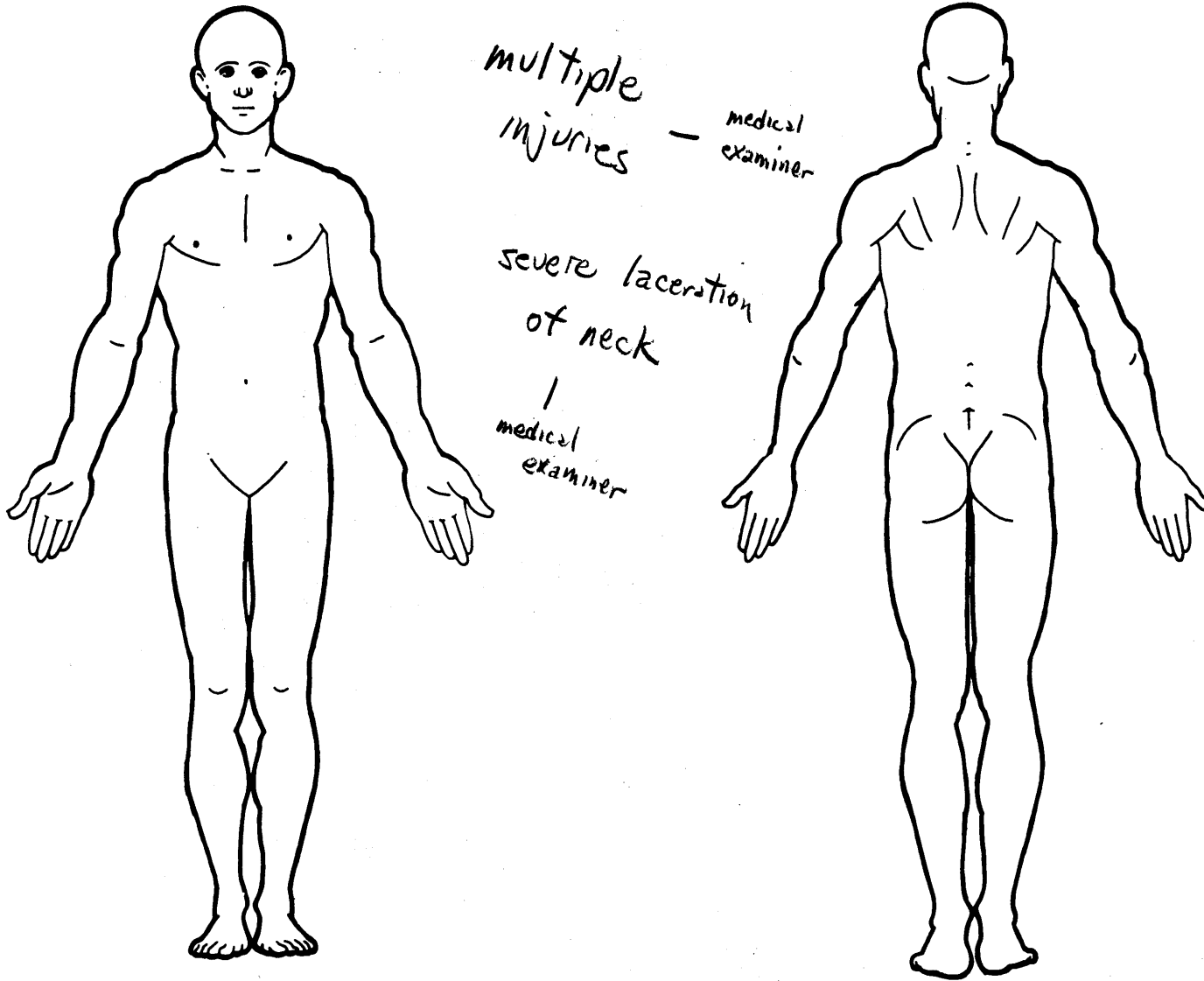
	O.I.C. - A.I.S.						Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
1st	2 <u>X</u> 5. <u>X</u>	N <u>X</u> 6. <u>X</u>	U <u>X</u> 7. <u>X</u>	L <u>X</u> 8. <u>X</u>	I <u>X</u> 9. <u>X</u>	I <u>X</u> 10. <u>X</u>	11. <u>70</u>	12. <u>2</u>	13. <u>1</u>	14. <u>01</u> 1st Review: 1E 2nd Review: _____
2nd	15. <u>8</u>	16. <u>F</u>	17. <u>C</u>	18. <u>F</u>	19. <u>S</u>	20. <u>1</u>	21. <u>70</u>	22. <u>2</u>	23. <u>1</u>	24. <u>01</u> 1st Review: 1E 2nd Review: _____
3rd	25. <u>8</u>	26. <u>C</u>	27. <u>U</u>	28. <u>U</u>	29. <u>U</u>	30. <u>7</u>	31. <u>06</u>	32. <u>X</u>	33. <u>1</u>	34. <u>00</u>
4th	35. <u>8</u>	36. <u>T</u>	37. <u>R</u>	28. <u>F</u>	39. <u>S</u>	40. <u>3</u>	41. <u>10</u>	42. <u>2</u>	43. <u>1</u>	44. <u>08</u> 1st Review: 1E 2nd Review: _____
5th	45. ___	46. ___	47. ___	48. ___	49. ___	50. ___	51. ___	52. ___	53. ___	54. ___
6th	55. ___	56. ___	57. ___	58. ___	59. ___	60. ___	61. ___	62. ___	63. ___	64. ___
7th	65. ___	66. ___	67. ___	68. ___	69. ___	70. ___	71. ___	72. ___	73. ___	74. ___
8th	75. ___	76. ___	77. ___	78. ___	79. ___	80. ___	81. ___	82. ___	83. ___	84. ___
9th	85. ___	86. ___	87. ___	88. ___	89. ___	90. ___	91. ___	92. ___	93. ___	94. ___
10th	95. ___	96. ___	97. ___	98. ___	99. ___	100. ___	101. ___	102. ___	103. ___	104. ___

OCCUPANT INJURY DATA

	Source of Injury Data	O.I.C.—A.I.S.				System Organ	A.I.S. Severity	Injury Source	Injury Source Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion							
11th	—	—	—	—	—	—	---	—	—	---	
12th	—	—	—	—	—	—	---	—	—	---	
13th	—	—	—	—	—	—	---	—	—	---	
14th	—	—	—	—	—	—	---	—	—	---	
15th	—	—	—	—	—	—	---	—	—	---	
16th	—	—	—	—	—	—	---	—	—	---	
17th	—	—	—	—	—	—	---	—	—	---	
18th	—	—	—	—	—	—	---	—	—	---	
19th	—	—	—	—	—	—	---	—	—	---	
20th	—	—	—	—	—	—	---	—	—	---	
21st	—	—	—	—	—	—	---	—	—	---	
22nd	—	—	—	—	—	—	---	—	—	---	
23rd	—	—	—	—	—	—	---	—	—	---	

OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (eg. discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): _____
- (9) Police

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): _____

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): _____
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): _____

EXTERIOR OF OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): _____
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): _____
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): _____
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): _____

OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
 - (85) Other vehicle or object (specify): _____
 - (86) Unknown vehicle or object
- ### NONCONTACT INJURY
- (90) Fire in vehicle
 - (91) Flying glass
 - (92) Other noncontact injury source (specify): _____
 - (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): _____

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): _____
- (25) Left side window glass or frame

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): _____
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify): _____
- (47) Interior loose objects
- (48) Child safety seat (specify): _____
- (49) Other interior object (specify): _____

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): _____

OCCUPANT INJURY CLASSIFICATION

O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

(W) Wrist-hand

Aspect of Injury

- (A) Anterior-front
- (B) Bilateral (rib fracture only)
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

(G) Detachment, separation

- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

(I) Integumentary

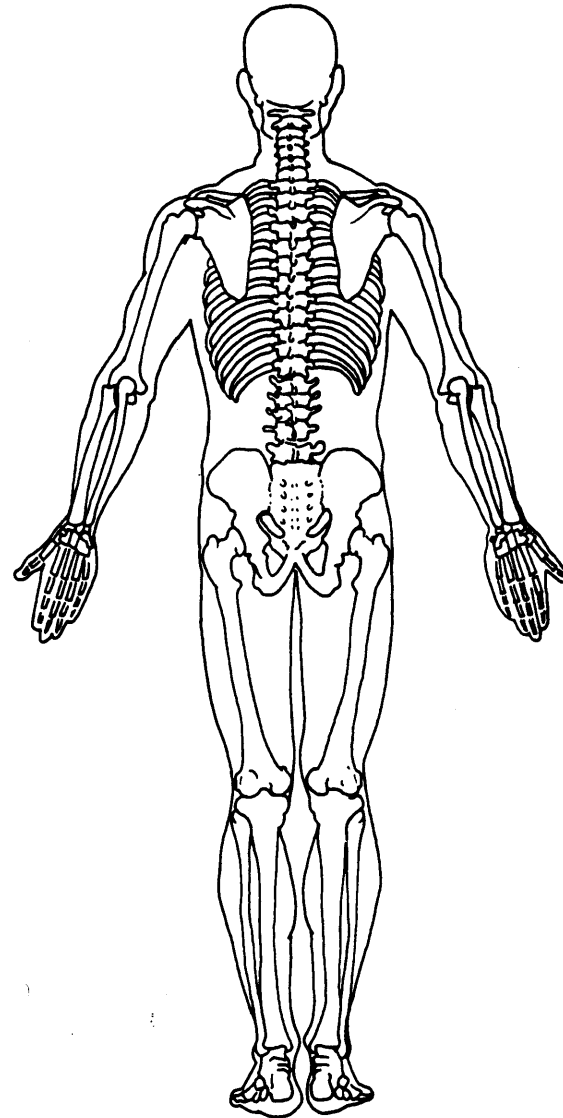
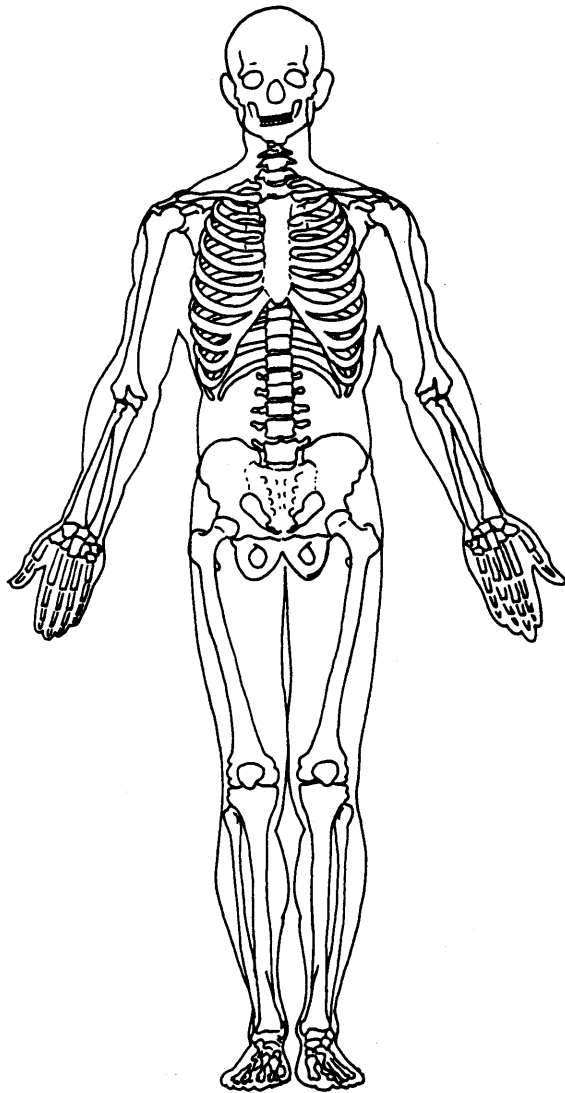
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

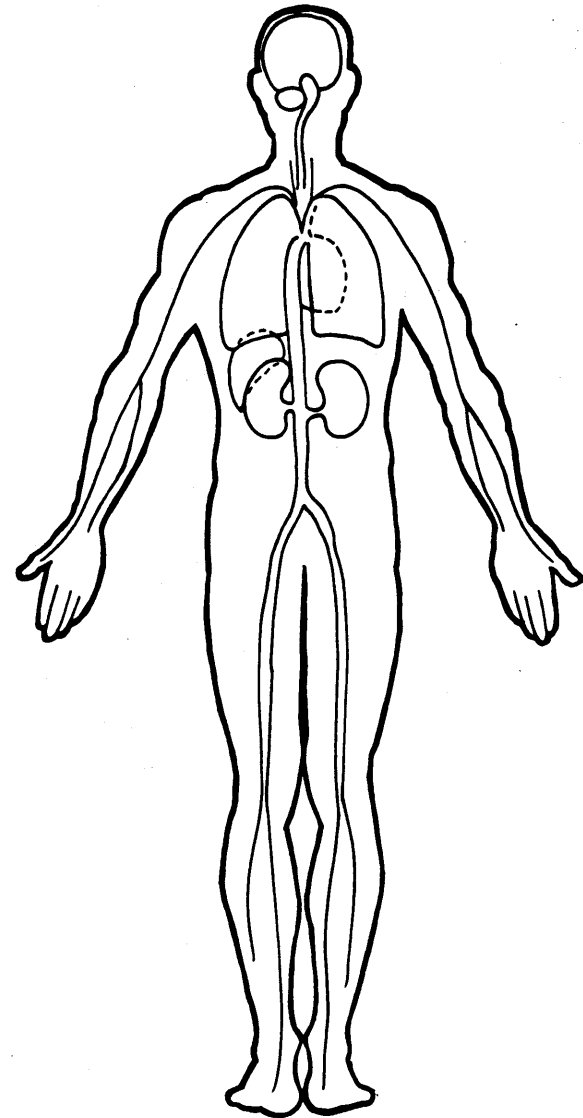
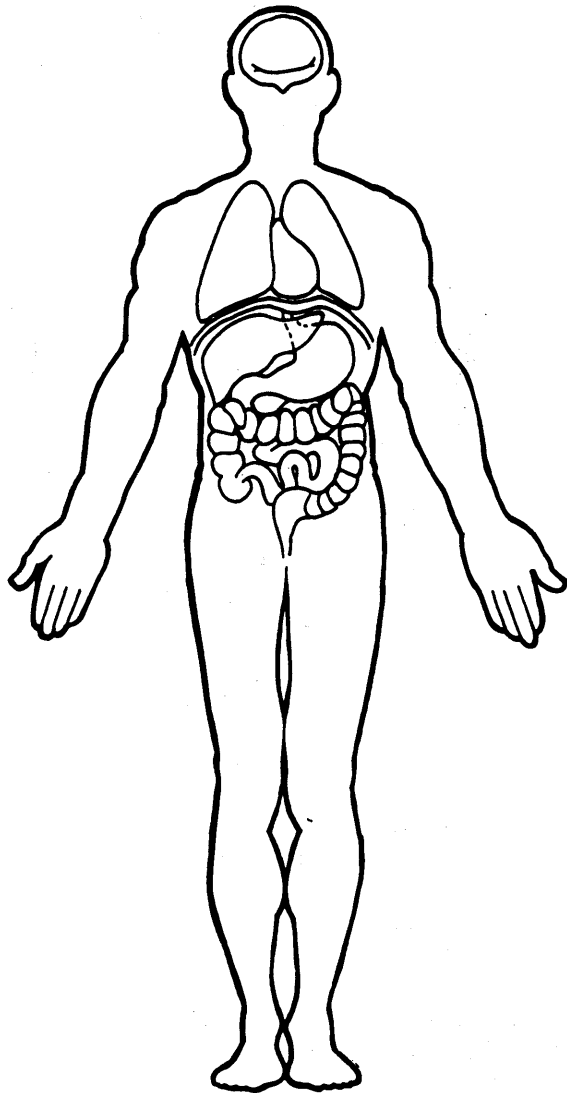
OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



OCCUPANT RELATED

- 16. Driver Presence in Vehicle _____
 (0) Driver not present
 (1) Driver present
 (9) Unknown
- 17. Number of Occupants This Vehicle _____
 (00-96) Code actual number of occupants for this vehicle
 (97) 97 or more
 (99) Unknown
- 18. Number of Occupant Forms Submitted _____

- 24. Rollover _____
 (0) No rollover (no overturning)
- Rollover (primarily about the longitudinal axis)
 (1) Rollover, 1 quarter turn only
 (2) Rollover, 2 quarter turns
 (3) Rollover, 3 quarter turns
 (4) Rollover, 4 or more quarter turns (specify):

- (5) Rollover - end-over-end (i.e., primarily about the lateral axis)
 (9) Rollover (overturn), details unknown

VEHICLE WEIGHT ITEMS

- 19. Vehicle Curb Weight _____ 00
 _____ Code weight to nearest 100 pounds.
 (010) Less than 1050 pounds
 (135) 13,500 lbs or more
 (999) Unknown

 Source: _____
- 20. Vehicle Cargo Weight _____ 00
 _____ Code weight to nearest 100 pounds.
 (00) Less than 50 pounds
 (97) 9,650 lbs or more
 (99) Unknown

OVERRIDE/UNDERRIDE (THIS VEHICLE)

- 25. Front Override/Underride (this vehicle) _____
- 26. Rear Override/Underride (this vehicle) _____
 (0) No override/underride, or not an end-to-end impact
- Override (see specific CDC)
 (1) 1st CDC
 (2) 2nd CDC
 (3) Other not automated CDC (specify):

- Underride (see specific CDC)
 (4) 1st CDC
 (5) 2nd CDC
 (6) Other not automated CDC (specify):

- (7) Medium/heavy truck override
 (9) Unknown

RECONSTRUCTION DATA

- 21. Towed Trailing Unit _____
 (0) No towed unit
 (1) Yes - towed trailing unit
 (9) Unknown
- 22. Documentation of Trajectory Data for This Vehicle _____
 (0) No
 (1) Yes
- 23. Post Collision Condition of Tree or Pole (for Highest Delta V) _____
 (0) Not collision (for highest delta V) with tree or pole
 (1) Not damaged
 (2) Cracked/sheared
 (3) Tilted <45 degrees
 (4) Tilted ≥45 degrees
 (5) Uprooted tree
 (6) Separated pole from base
 (7) Pole replaced
 (8) Other (specify):

 (9) Unknown

HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V

- Values: (000)-(359) Code actual value
 (997) Noncollision
 (998) Impact with object
 (999) Unknown
- 27. Heading Angle for This Vehicle _____
- 28. Heading Angle for Other Vehicle _____

Category	Configuration	ACCIDENT TYPES (Includes Intent)						
I. Single Driver	A. Right Roadside Departure	01 DRIVE OFF ROAD	02 CONTROL/ TRACTION LOSS	03 AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN		
	B. Left Roadside Departure	06 DRIVE OFF ROAD	07 CONTROL/ TRACTION LOSS	08 AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN		
	C. Forward Impact	11 PARKED VEH.	12 STA. OBJECT	13 PEDESTRIAN/ ANIMAL	14 END DEPARTURE	15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN	
II. Same Trafficway Same Direction	D. Rear-End	20 STOPPED 21, 22, 23	22 SLOWER 25, 26, 27	24 DECEL. 29, 30, 31	26 AVOID COLLISION WITH VEH.	28 AVOID COLLISION WITH OBJECT	(EACH • 32) SPECIFICS OTHER	(EACH • 33) SPECIFICS UNKNOWN
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	38 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	(EACH • 42) SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN	
	F. Sideswipe Angle	44 LATERAL MOVE	45 LATERAL MOVE	46 LATERAL MOVE	47 LATERAL MOVE	(EACH • 48) SPECIFICS OTHER	(EACH • 49) SPECIFICS UNKNOWN	
III. Same Trafficway Opposite Direction	G. Head-On	50 LATERAL MOVE	51 LATERAL MOVE	(EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN			
	H. Forward Impact	54 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH OBJECT	(EACH • 62) SPECIFICS OTHER	(EACH • 63) SPECIFICS UNKNOWN	
	I. Sideswipe Angle	64 LATERAL MOVE	65 LATERAL MOVE	(EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOWN			
IV. Change Trafficway Vehicle Turning	J. Turn Across Path	68 INITIAL OPPOSITE DIRECTIONS	70 INITIAL SAME DIRECTIONS	71 INITIAL SAME DIRECTIONS	72 INITIAL SAME DIRECTIONS	(EACH • 74) SPECIFICS OTHER	(EACH • 75) SPECIFICS UNKNOWN	
	K. Turn Into Path	76 TURN INTO SAME DIRECTION	78 TURN INTO SAME DIRECTION	79 TURN INTO OPPOSITE DIRECTIONS	80 TURN INTO OPPOSITE DIRECTIONS	81 TURN INTO OPPOSITE DIRECTIONS	82 TURN INTO OPPOSITE DIRECTIONS	(EACH • 84) SPECIFICS OTHER
V. Intersecting Paths (Vehicle Damage)	L. Straight Paths	86 STRAIGHT PATHS	87 STRAIGHT PATHS	88 STRAIGHT PATHS	89 STRAIGHT PATHS	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN	
VI. Miscellaneous	M. Backing Etc.	92 BACKING VEH.	93 OTHER VEH. OR OBJECT	98 Other Accident Type 99 Unknown Accident Type 00 No Impact				

PSU NUMBER
CASE NUMBER
VEHICLE NUMBER

11
111A
02

EXTERIOR VEHICLE FORM

THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:

ENTIRE FORM

PAGE NUMBER (S) _____

PSU NUMBER
CASE NUMBER
VEHICLE NUMBER

11
111A
02

INTERIOR VEHICLE FORM

THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:

- ENTIRE FORM
- PAGE NUMBER (S) _____

PSU NUMBER	<u>11</u>
CASE NUMBER	<u>111A</u>
VEHICLE NUMBER	<u>02</u>
OCCUPANT NUMBER	<u>01</u>

OCCUPANT ASSESSMENT FORM

THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:

- ENTIRE FORM
- PAGE NUMBER (S) _____

PSU NUMBER	<u>11</u>
CASE NUMBER	<u>111A</u>
VEHICLE NUMBER	<u>02</u>
OCCUPANT NUMBER	<u>01</u>

OCCUPANT INJURY FORM

THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:

ENTIRE FORM

PAGE NUMBER (S) _____

CC0531 2 ***** THIS CASE SHOWS A DOOR OR HATCH OR GATE OPENING *****
 CC0532 ***** CHECK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE *****
 CC0533 DOOR LEFT FRONT IV05 equals 2 or IV06 equals 2 or IV07 equals 2
 CC0534 or IV08 equals 2 or IV09 equals 2.

 CC0541 2 ***** THIS CASE SHOWS A POSSIBLE HOLED WINDSHIELD. *****
 CC0542 ***** CHECK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE *****
 CC0543 GLAZING WINDSHIELD IV15 equals 3 or 5 or CONTACT COMPONENT IV23
 CC0544 equals 3 or 5.

 CC0881 2 If LONGITUDINAL MOVEMENT IV91 equals -84 to -81 or -50 to -01,
 CC0882 then INTRUDING COMPONENT IV48(n) should equal 01.

 HH1281 2 ***** THIS VEHICLE IS INICATED AS HAVING AN AIRBAG. *****
 HH1282 ***** CHECK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE *****
 HH1283 PASSIVE AVAILABILITY QA21 equals 1-3.

11111A00000011 [REDACTED]903.04100000000002140000000002 [REDACTED]90 [REDACTED]30 [REDACTED]90 [REDACTED]90
 11111A00010012 [REDACTED]903.0410000000000103F0224F
 11111A00020013 [REDACTED]903.0410000000000103L0224F
 11111A01000021 3.04 0000000009012017041FACP52U0LG [REDACTED] 19970065995010101030
 00010070310090499 99 999999011
 11111A01000031 3.04 000000000010212FYAW08020209LBEW01
 011060
 11111A01000041 3.04 00000300098233106000036660686000000001222020212220101
 11111A01000042 3.04 0000000001132622119622107631106631113632113631102621203
 62130462121261297 97+84-83509999090
 11111A01010051 3.04 00000100022169150111900000404911415306600000000000004100
 0620199000004
 11111A01010161 3.04 0000000002NULI1702101
 11111A01010261 3.04 0000000008FCFS1702101
 11111A01010361 3.04 0000000008CULU7061100
 11111A01010461 3.04 0000000008TRFS3102108
 11111A02000021 3.04 0000000008682881651WUBDCJE5G [REDACTED] 199096550351
 0
 11111A88888888 [REDACTED]903.021000000000YY0202YYY0001Y000000000000000000000000000000
 00000000
 11111A99999999 [REDACTED]903.02100030000000020000
 000000000000000

EC0021 2 If INTRUDING COMPONENT IV48 equals 06, 07, 10, 13, 27 or 28,
 EC0022 then at least one ((DEFORMATION LOCATION EV07(n) should equal 9
 EC0023 or blank) or ((EV07(n) should equal R, L or T) and (LONGITUDINAL
 EC0024 LOCATION EV08(n) should equal D, P, Y, or Z)).

1990 NATIONAL ACCIDENT SAMPLING SYSTEM

ERROR SUMMARY SCREEN

[REDACTED] 1991

CURRENT VERSION: 3.04

FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	Y
General Vehicle	0	0	0	Y
Vehicle Exterior	0	0	0	Y
Vehicle Interior	0	0	3	Y
Occupant Assessment	0	0	1	Y
Occupant Injury	0	0	0	Y
Total Inter Errors		0	1	
Total Case Errors	0	0	5	

■ [REDACTED] A4

■ [REDACTED] A9

■ [REDACTED] A3



[REDACTED]



SLIDE INDEX

Primary Sampling Unit Number <u>11</u>			Case Number—Stratum <u>111A</u>
Slide No.	Vehicle No.	Direction of Picture	Description of Slide Subject Matter
1-5	01	W	Approach initial roadway departure
6,7	01	E	lookback from area of roadway departure
8-13	01	E	crossing median
14,15	01	E	approach POI
16-18	01	N	POI
19,20	01	W	POI
21	01	E	leaving roadway - second time
22,23	01	NW	skids leaving roadway
24-28	01	E	approaching FRP
29	01	SW	lookback at FRP
30-36	02	E	Approach POI & FRP (roadway)
37-38	02	NE	Approach FRP after leaving roadway
39	02	NE	FRP
40	02	SW	lookback across FRP
41-44	02	W	lookback to approach from roadway
45-71	01		Exterior view
72	01		Door - left front
73-74	01		failed hinge
74	01		Door - left front
76-96	01		Interior (such as it is) including airbag
97	01		Shear capsule



PSU 11-111A (1990) #1



PSU 11-111A (1990) #2



PSU 11-111A (1990) #3



PSU 11-111A (1990) #4



PSU 11-111A (1990) #5



PSU 11-111A (1990) #6



PSU 11-111A (1990) #7



PSU 11-111A (1990) #8



PSU 11-111A (1990) #9



PSU 11-111A (1990) #10



PSU 11-111A (1990) #11



PSU 11-111A (1990) #12



PSU 11-111A (1990) #13



PSU 11-111A (1990) #14



PSU 11-111A (1990) #15



PSU 11-111A (1990) #16



PSU 11-111A (1990) #17



PSU 11-111A (1990) #18



PSU 11-111A (1990) #19



PSU 11-111A (1990) #20



PSU 11-111A (1990) #21



PSU 11-111A (1990) #22



PSU 11-111A (1990) #23



PSU 11-111A (1990) #24



PSU 11-111A (1990) #25



PSU 11-111A (1990) #26



PSU 11-111A (1990) #27



PSU 11-111A (1990) #28



PSU 11-111A (1990) #29



PSU 11-111A (1990) #30



PSU 11-111A (1990) #31



PSU 11-111A (1990) #32



PSU 11-111A (1990) #33



PSU 11-111A (1990) #34



PSU 11-111A (1990) #35



PSU 11-111A (1990) #36



PSU 11-111A (1990) #37



PSU 11-111A (1990) #38



PSU 11-111A (1990) #39



PSU 11-111A (1990) #40



PSU 11-111A (1990) #41



PSU 11-111A (1990) #42



PSU 11-111A (1990) #43



PSU 11-111A (1990) #44



PSU 11-111A (1990) #45



PSU 11-111A (1990) #46



PSU 11-111A (1990) #47



PSU 11-111A (1990) #48



PSU 11-111A (1990) #49



PSU 11-111A (1990) #50



PSU 11-111A (1990) #51



PSU 11-111A (1990) #52



PSU 11-111A (1990) #53



PSU 11-111A (1990) #54



PSU 11-111A (1990) #55



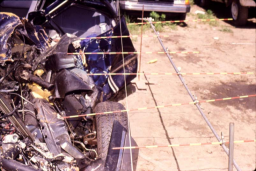
PSU 11-111A (1990) #56



PSU 11-111A (1990) #57



PSU 11-111A (1990) #58



PSU 11-111A (1990) #59



PSU 11-111A (1990) #60



PSU 11-111A (1990) #61



PSU 11-111A (1990) #62



PSU 11-111A (1990) #63



PSU 11-111A (1990) #64



PSU 11-111A (1990) #65



PSU 11-111A (1990) #66



PSU 11-111A (1990) #67



PSU 11-111A (1990) #68



PSU 11-111A (1990) #69



PSU 11-111A (1990) #70



PSU 11-111A (1990) #71



PSU 11-111A (1990) #72



PSU 11-111A (1990) #73



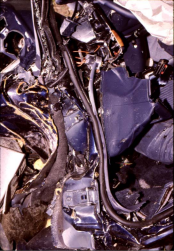
PSU 11-111A (1990) #74



PSU 11-111A (1990) #75



PSU 11-111A (1990) #76



PSU 11-111A (1990) #77



PSU 11-111A (1990) #78



PSU 11-111A (1990) #79



PSU 11-111A (1990) #80



PSU 11-111A (1990) #81



PSU 11-111A (1990) #82



PSU 11-111A (1990) #83



PSU 11-111A (1990) #84



PSU 11-111A (1990) #85



PSU 11-111A (1990) #86



PSU 11-111A (1990) #87



PSU 11-111A (1990) #88



PSU 11-111A (1990) #89



PSU 11-111A (1990) #90



PSU 11-111A (1990) #91



PSU 11-111A (1990) #92



PSU 11-111A (1990) #93



PSU 11-111A (1990) #94



PSU 11-111A (1990) #95



PSU 11-111A (1990) #96



PSU 11-111A (1990) #97