

Created on: 2/24/2014
3:03
PM

Time(Local)

User

Description

2-24-2014
3:03:46
PM

mshp

Operation : Verify Arbitrator video files(.AV video)
Success

**MISSOURI STATE HIGHWAY PATROL
MISSOURI UNIFORM CRASH REPORT
TECHNICAL SUPPLEMENT**

CRASH DATE [REDACTED]	SUPP RPT DATE [REDACTED]	TRP / DIST / PCT F	COUNTY Cooper	REPORT / CASE / INCIDENT NUMBER [REDACTED]
SUPPLEMENT REPORTING OFFICER Corporal G. D. Ward		DSN / BADGE 1189	SUPPLEMENT REVIEWING OFFICER Sergeant H. A. Sears	
			DSN / BADGE 1200	

On [REDACTED] at approximately 0955 hours, I was notified by Troop F radio of a fatality motor vehicle crash which had occurred in Cooper County as a vehicle was being pursued by the Boonville Police Department. The Boonville Police Department had requested a technical crash investigation. Trooper Z.A. Czerniewski initiated the crash investigation and submitted the original crash report, indicating it occurred on [REDACTED] at approximately 0926 hours, on Old [REDACTED] [REDACTED] involving a single vehicle and a single fatality.

At 1016 hours, I arrived at the crash scene. I contacted Trooper Czerniewski and he reviewed the scene with me. He explained the Boonville Police Department had been in pursuit of Vehicle #1, a 1989 Buick Skylark four door sedan, which was westbound on Old Highway 40, a Cooper County roadway, [REDACTED], a private roadway, when the vehicle traveled off the left side of the roadway and Driver #1 overcorrected. The vehicle entered a critical speed yaw, returned to the roadway, crossed the roadway, traveled off the right side of the roadway, struck a guardrail end, vaulted, overturned, struck the ground, struck a utility pole and struck a fence before coming to rest. Vehicle #1 came to rest on its wheels facing south. Driver #1 was ejected as Vehicle #1 overturned and was located under the vehicle at its final rest location.

Trooper Czerniewski stated the scene was still intact other than the removal of the deceased Driver #1.

The physical evidence at the scene was consistent with Trooper Czerniewski's explanation of the crash events. The physical evidence included pre-impact tire marks from Vehicle #1 as it traveled off the left side of the roadway. The tire marks course west with the rear wheels tracking outside the path of the front wheels. The tire marks returned to the roadway and ended near the center of the roadway. Another set of pre-impact tire marks were visible off the right side of the roadway and led to the damaged guardrail end. Gouge marks in the dirt created as Vehicle #1 overturned were visible along the embankment northwest of the guardrail along with two damaged fences and a broken utility pole. Trooper Czerniewski had placed paint on the roadway to mark evidence such as tire marks and at the Vehicle #1 axles to mark their final rest locations.

The crash occurred during the early morning hours of daylight under clear skies on a dry roadway with no atmospheric conditions present which would have adversely affected driver visibility.

One witness was identified in Trooper Czerniewski's original report. The witness was the Boonville Police Officer who was pursuing Vehicle #1. He stated to Trooper Czerniewski, "He traveled off the left side and almost hit a car head on. Then he returned to the road and traveled off the right side. He hit the guardrail and went airborne."

The Boonville Police Department provided a copy of Witness #1's in-car patrol car video footage. A copy of the video is included with this report as an attachment.

Trooper Czerniewski stated he was stopped at [REDACTED] as Vehicle #1 and Witness #1 passed. He stated he did not observe the crash but his in-car patrol car video footage did capture the vehicles as they passed his location. A copy of his video is included with this report as an attachment.

I examined Vehicle #1 at the crash scene. It was equipped with lap and shoulder belt restraints for the seat position occupied at the time of the crash. The seat belt was locked in its fully retracted position. The pretensioner had fired and locked the seat belt in the position where it was at the time of the crash. Based upon my examination, Driver #1 was not making use of the seat belt restraint for his seat position.

Vehicle #1 exhibited extensive damage from overturning. The front grill, bumper cover and headlight assemblies were missing. The front of the vehicle and front fenders were forced upward and rearward. The rear bumper cover and taillight assemblies were missing. The rear bumper and rear fenders were forced downward and forward. Both "A" pillars, that vehicle member at which the front doors hinge, were forced rearward and into the area normally occupied by Driver #1 during the collision with the utility pole.

I examined and photographed the crash scene and also charted the scene using assigned electronic mapping instruments. I later prepared a scale diagram which is included with the report as an attachment.

Math calculations determined Vehicle #1 was traveling at approximately 92.4 miles per hour when it vaulted off the guardrail and began overturning.

According to determinations reached in this report, this crash occurred when Driver #1 was traveling at a speed in excess of the posted 55 mile per hour speed limit and failed to maintain Vehicle #1's path of travel within the westbound lane of Old Highway 40. Vehicle #1 crossed the roadway, traveled off the left side of the roadway and Driver #1 overcorrected. Vehicle #1 entered a critical speed

yaw and returned to the roadway. Driver #1 was unable to regain control of Vehicle #1 as it crossed the roadway and traveled off the right side of the roadway. Vehicle #1 struck a guardrail end, vaulted, began overturning, impacted the ground several times as it side rolled, impacted 2 fences, impacted a utility pole and came to rest with Driver #1 trapped underneath Vehicle #1.

The calculated vault speed of 92.4 miles is consistent with the Boonville Police Department in-car video in which Witness #1 stated they were traveling at about 100 miles per hour. Vehicle #1 is visible throughout its pre-impact path of travel in the video and at no time are the brake lights illuminated. At the start of the video, Vehicle #1 pulls to the shoulder and all brake lights illuminate. Since they never illuminate during the pre-impact path of travel, it can be reasoned that Driver #1 never applied his brakes in an attempt to slow Vehicle #1.

That Driver #1 did not survive the collision is not considered surprising, given his close proximity to the harshest of direct collision engagements and the intrusion of the Vehicle #1 "A" pillars into the space he occupied, considered in tandem with his lack of use of the seat belt restraints for his position which resulted in him being totally ejected from Vehicle #1 and coming rest with Vehicle #1 upon him.

Attachments:

1. Photo Log
2. Math Computations
3. Scale Diagram
4. Expert AutoStats Manufacture specification for a 1989 Buick Skylark 4 Door Sedan
5. Boonville Police Department in-car video footage (file included with CD copy)
6. Missouri State Highway Patrol in-car video footage (file included with CD copy)

Photo Log

Digital photographs DSCN0279 through DSCN0290 were taken by Trooper Z. A. Czerniewski at the crash scene on [REDACTED]

279. View looking west, east of the crash scene.
280. Progressive view from previous view.
281. Progressive view from previous view.
282. Progressive view from previous view. Note: Blue paint denotes pre-impact tire marks
283. Progressive view from previous view.
284. Progressive view from previous view.
285. View of damaged guardrail, looking northwest.
286. View of damaged utility lines, looking northwest.
287. View of Vehicle #1 at final rest, looking northwest.
288. Progressive view from previous view.
289. View of damaged fence and utility pole, looking north.
290. View of Vehicle #1 at final rest, looking north.

I took digital images DSC_0001 through DSC_0091 at the crash scene on [REDACTED]

1. View of Old Highway 40 looking west, standing east of the crash scene.
2. Progressive view from previous view.
3. Progressive view from previous view.
4. Progressive view from previous view.
5. Progressive view from previous view.
6. Progressive view from previous view.
7. Progressive view from previous view. Note: Orange paint denotes location Vehicle #1 traveled off the left side of the roadway.
8. Progressive view from previous view.
9. Progressive view from previous view.
10. Progressive view from previous view.
11. Progressive view from previous view.
12. Progressive view from previous view.
13. Progressive view from previous view. Note: Orange paint denotes location Vehicle #1 returned to roadway.
14. Progressive view from previous view.
15. Progressive view from previous view.
16. Progressive view from previous view.
17. Progressive view from previous view.
18. Progressive view from previous view.
19. Progressive view from previous view.
20. Progressive view from previous view.
21. Progressive view from previous view.
22. Progressive view from previous view.
23. View of Vehicle #1 at final rest, looking north from roadway.
24. View of Vehicle #1 debris, damaged fence and damaged utility pole, looking north from roadway.
25. View of Old Highway 40, looking west. Note: Orange paint denotes tire marks where Vehicle #1 traveled off the left side of the roadway.

26. Progressive view from previous view.
27. Progressive view from previous view.
28. Progressive view from previous view.
29. Progressive view from previous view.
30. Progressive view from previous view.
31. Progressive view from previous view.
32. Progressive view from previous view.
33. Progressive view from previous view.
34. Progressive view from previous view. Note: Orange paint denotes tire marks where Vehicle #1 returned to roadway.
35. Progressive view from previous view.
36. Progressive view from previous view.
37. Progressive view from previous view.
38. Progressive view from previous view.
39. Progressive view from previous view.
40. Progressive view from previous view.
41. Progressive view from previous view.
42. Progressive view from previous view.
43. Progressive view from previous view. Note: Orange paint denotes tire marks from Vehicle #1 as it approached the guardrail end. Note2: Orange and blue paint denotes location Boonville Police Department vehicle parked and are unrelated to actual crash situation.
44. Progressive view from previous view.
45. Progressive view from previous view.
46. View of Vehicle #1 at final rest from location Vehicle #1 went airborne, looking west.
47. Progressive view from previous view.
48. Progressive view from previous view.
49. View of divot in ground where Vehicle #1 ended its airborne flight as it overturned.
50. Progressive view from previous view.
51. Progressive view from previous view.
52. Progressive view from previous view.
53. Progressive view from previous view.
54. Progressive view from previous view.
55. Progressive view from previous view.
56. View of Vehicle #1 at final rest from front.
57. View of Vehicle #1 at final rest from left front.
58. View of Vehicle #1 at final rest from left.
59. View of Vehicle #1 at final rest from left rear.
60. View of Vehicle #1 at final rest from rear.
61. View of Vehicle #1 at final rest from right rear.
62. View of Vehicle #1 at final rest from right.
63. View of Vehicle #1 at final rest from right front.
64. View of Vehicle #1 left front seat belt restraint locked in retracted position.
65. View of Vehicle #1 left front seat belt latch unlatched.

66. View looking east, west of the crash scene.
67. View of right front marker lens in grass.
68. Progressive view from previous view.
69. Progressive view from previous view.
70. View of Vehicle #1 front bumper cover.
71. View of Vehicle #1 front bumper cover right side.
72. View of Vehicle #1 front bumper cover center.
73. View of Vehicle #1 front bumper cover left side.
74. View of Vehicle #1 front grill and headlight debris.
75. Progressive view from previous view.
76. View of Vehicle #1 rear reflector and taillight assembly.
77. View of Vehicle #1 rear reflector and taillight assembly left side.
78. View of Vehicle #1 rear reflector and taillight assembly center.
79. View of Vehicle #1 rear reflector and taillight assembly right side.
80. View of damaged guardrail, looking west.
81. Progressive view from previous view.
82. Progressive view from previous view.
83. Progressive view from previous view.
84. Progressive view from previous view.
85. Progressive view from previous view.
86. Progressive view from previous view.
87. Progressive view from previous view.
88. Progressive view from previous view.
89. Progressive view from previous view.
90. Progressive view from previous view.
91. Progressive view from previous view.

Math Computations:

Item I:

Computations to determine the frictional coefficient of the Old Highway 40 roadway, using the following generally accepted formula:

$$f = \frac{F}{W}$$

Where F is the force in pounds necessary to maintain movement of the drag sled once motion is achieved, and W is the weight of the sled, 30 pounds.

Pulls averaging 25.25 pounds were recorded on the asphalt pavement in the direction of the pre-impact tire marks of Vehicle #1 as it traveled off the left side of the roadway.

Inserting values:

$$\begin{aligned} f &= \frac{25.25}{30} \\ &= .841666667 \\ &\approx .84 \end{aligned}$$

Pulls averaging 15 pounds were recorded on the south gravel shoulder in the direction of the pre-impact tire marks of Vehicle #1 as it traveled off the left side of the roadway, rendering a frictional coefficient of .5; pulls averaging 25.57 were recorded on the grass in the direction of the pre-impact tire marks of Vehicle #1, rendering a coefficient of .85; pulls averaging 15.14 pounds were recorded on the south gravel shoulder in the direction of the pre-impact tire marks of Vehicle #1 as it returned to the roadway, rendering a coefficient of friction of .5; pulls averaging 21.66 pounds were recorded on the asphalt pavement in the direction of the striations of the Vehicle #1 tires, rendering a coefficient of friction of .72.

Item II:

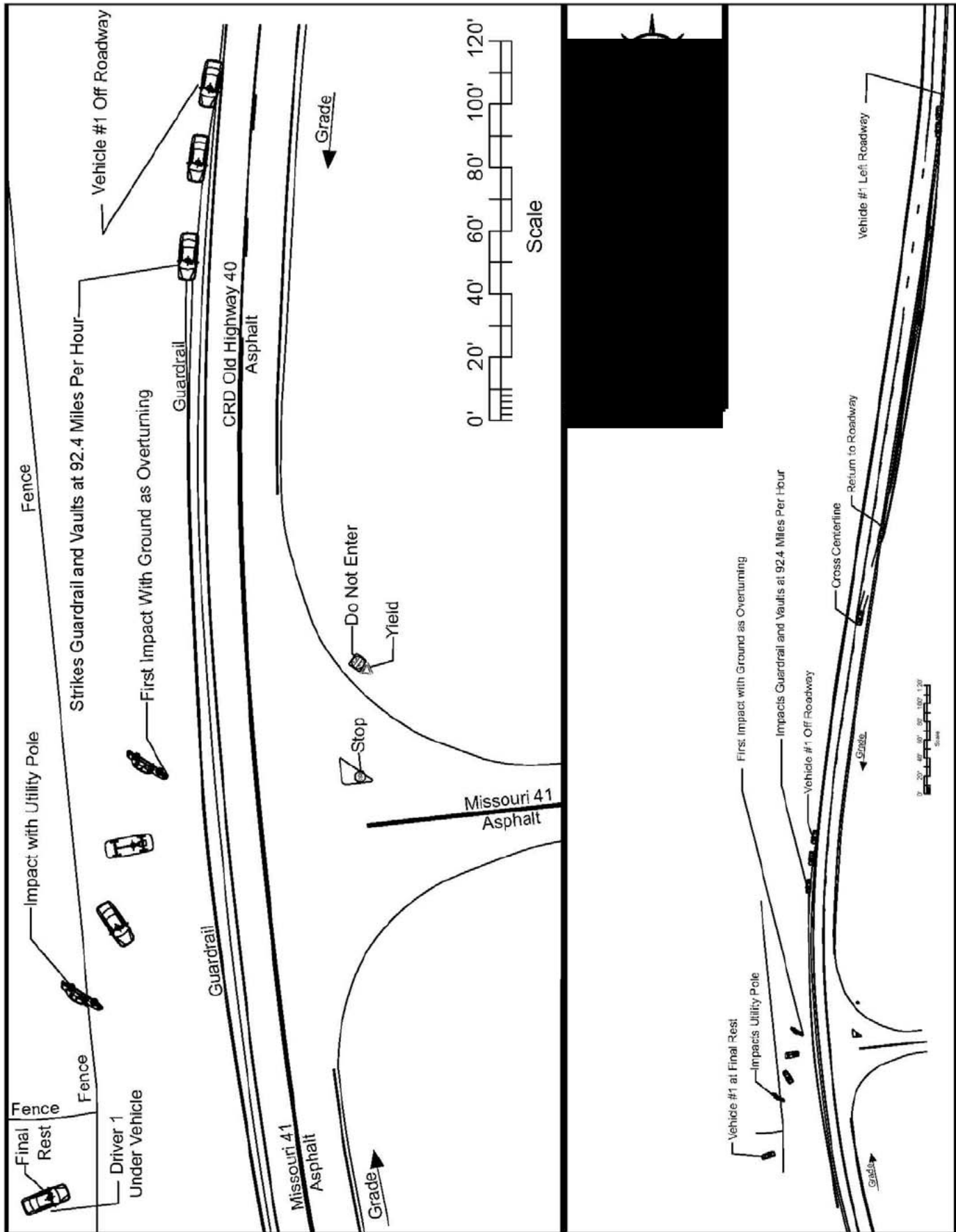
Math computations to determine the speed of Vehicle #1 as it vaulted off the guardrail, using the following generally accepted formula:

$$S = \frac{2.73 \times D}{\cos \theta \sqrt{h + (D \times m)}}$$

Where 2.73 is a mathematical constant; D is the horizontal distance Vehicle #1 traveled while airborne, 160 feet; θ is the take-off angle expressed in degrees, 6.2°; h is the vertical distance Vehicle #1 fell while airborne, 5 feet; and m is the take-off angle expressed in a percentage, .11.

Inserting values:

$$\begin{aligned} S &= \frac{2.73 \times 160}{\cos 6.2 \sqrt{5 + (160 \times .11)}} \\ &= \frac{436.8}{.994150964 \sqrt{5 + (17.6)}} \\ &= \frac{436.8}{.994150964 \sqrt{22.6}} \\ &= \frac{436.8}{.994150964 \times 4.75394573} \\ &= \frac{436.8}{4.72613973} \\ &= 92.42215105 \\ &\approx 92.4 \text{ miles per hour} \end{aligned}$$



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Version 5.3.0

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MISSOURI STATE HIGHWAY PATROL - CRASH TEAM 1

HHC P.O. BOX 517

HIGGINSVILLE MO 64037

1989 BUICK SKYLARK 4 DOOR SEDAN

Curb Weight: lbs. kg.
 Curb Weight Distribution - Front: % Rear: %
 Gross Vehicle Weight Rating: lbs. kg.
 Number of Tires on Vehicle:
 Drive wheels:

Horizontal Dimensions

	Inches	Feet	Meters
Total Length	<input type="text" value="180"/>	<input type="text" value="15.00"/>	<input type="text" value="4.57"/>
Wheelbase:	<input type="text" value="103"/>	<input type="text" value="8.58"/>	<input type="text" value="2.62"/>
Front Bumper to Front Axle:	<input type="text" value="37"/>	<input type="text" value="3.08"/>	<input type="text" value="0.94"/>
Front Bumper to Front of Front well:	<input type="text" value="20"/>	<input type="text" value="1.67"/>	<input type="text" value="0.51"/>
Front Bumper to Front of Hood:	<input type="text" value="3"/>	<input type="text" value="0.25"/>	<input type="text" value="0.08"/>
Front Bumper to Base of windshield:	<input type="text" value="55"/>	<input type="text" value="4.58"/>	<input type="text" value="1.40"/>
Front Bumper to Top of Windshield:	<input type="text" value="81"/>	<input type="text" value="6.75"/>	<input type="text" value="2.06"/>
Rear Bumper to Rear Axle:	<input type="text" value="40"/>	<input type="text" value="3.33"/>	<input type="text" value="1.02"/>
Rear Bumper to Rear of Rear Well:	<input type="text" value="19"/>	<input type="text" value="1.58"/>	<input type="text" value="0.48"/>
Rear Bumper to Rear of Trunk:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Rear Bumper to Base of Rear Window:	<input type="text"/>	<input type="text"/>	<input type="text"/>

Width Dimensions

Maximum width:	<input type="text" value="67"/>	<input type="text" value="5.58"/>	<input type="text" value="1.70"/>
Front Track:	<input type="text" value="56"/>	<input type="text" value="4.67"/>	<input type="text" value="1.42"/>
Rear Track:	<input type="text" value="55"/>	<input type="text" value="4.58"/>	<input type="text" value="1.40"/>

Vertical Dimensions

Height:	<input type="text" value="52"/>	<input type="text" value="4.33"/>	<input type="text" value="1.32"/>
Ground to -			
Front Bumper (Top)	<input type="text" value="17"/>	<input type="text" value="1.42"/>	<input type="text" value="0.43"/>
Headlight - center	<input type="text" value="26"/>	<input type="text" value="2.17"/>	<input type="text" value="0.66"/>
Hood - top front:	<input type="text" value="30"/>	<input type="text" value="2.50"/>	<input type="text" value="0.76"/>
Base of Windshield	<input type="text" value="37"/>	<input type="text" value="3.08"/>	<input type="text" value="0.94"/>
Rear Bumper - top:	<input type="text" value="22"/>	<input type="text" value="1.83"/>	<input type="text" value="0.56"/>
Trunk - top rear:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Base of Rear Window:	<input type="text"/>	<input type="text"/>	<input type="text"/>

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1989 BUICK SKYLARK 4 DOOR SEDAN

Interior Dimensions

	Inches	Feet	Meters
Front Seat Shoulder Width	54	4.50	1.37
Front Seat to Headliner	38	3.17	0.97
Front Leg Room - seatback to floor (max)	43	3.58	1.09
Rear Seat Shoulder Width	53	4.42	1.35
Rear Seat to Headliner	37	3.08	0.94
Front Leg Room - seatback to floor (min)	34	2.83	0.86

Seatbelts: **3pt front, 2pt rear**
 Airbags: **NO AIRBAGS**

Steering Data

Turning circle (Diameter)	420	35.00	10.67
Steering Ratio:	13.84:1		
Wheel Radius:	12	1.00	0.30
Tire Size (OEM):	P205/70R14		

Acceleration & Braking Information

Brake Type: **ALL DISC**
 ABS System: **ABS UNKNOWN**

Braking, 60 mph to 0 (Hard pedal, no skid, dry pavement):

d = **180.0** ft t = **4.1** sec a = **-21.5** ft/sec² G-force = **-0.67**

Acceleration:

0 to 30mph	t = 5.8 sec	a = 7.6 ft/sec ²	G-force = 0.24
0 to 60mph	t = 16.0 sec	a = 5.5 ft/sec ²	G-force = 0.17
45 to 65mph	t = 10.3 sec	a = 2.8 ft/sec ²	G-force = 0.09

Transmission Type: **AUTOMATIC**

Notes:

Federal Bumper Standard Requirements: **2.5** mph
 This vehicles Rated Bumper Strength: **5** mph

N.S.D.C = **1986 - 1991**

Expert AutoStats®

1989 BUICK SKYLARK 4 DOOR SEDAN

Other Information

Tip-Over Stability Ratio =	1.36	Stable
NHTSA Star Rating (calculated)		****

Center of Gravity (No Load):

Inches behind front axle	=	36.05
Inches in front of rear axle	=	66.95
Inches from side of vehicle	=	33.50
Inches from ground	=	20.41
Inches from front corner	=	80.37
Inches from rear corner	=	112.07
Inches from front bumper	=	73.05
Inches from rear bumper	=	106.95

Moments of Inertia Approximations (No Load):

Yaw Moment of Inertia	=	1439.04	lb*ft*sec ²
Pitch Moment of Inertia	=	1393.32	lb*ft*sec ²
Roll Moment of Inertia	=	312.24	lb*ft*sec ²

Front Profile Information

Angle Front Bumper to Hood Front	=	77.0	deg
Angle Front of Hood to Windshield Base	=	7.7	deg
Angle Front of Hood to Windshield Top	=	14.4	deg
Angle of Windshield	=	26.6	deg
Angle of Steering Tires at Max Turn	=	28.1	deg

First Approximation Crush Factors:

Speed Equivalent (mph) of Kinetic Energy (KE) used in causing crush of indentation may be evaluated using the following formula, the appropriated Crush Factor (CF), and Maximum Indentation Depth (MID), in feet:

$$V(\text{mph}) = \sqrt{(30 * CF * MID)}$$

KE Equivalent Speed (Front/Rear/Side)	=	21	CF
Bullet vehicle IMPACT SPEED estimation based on TARGET VEHICLE damage ONLY (Tested for Rear/Side Impact only)	=	27	CF

These CF values are based upon analysis of NHTSA Barrier Crash data, and from over 1000 vehicle accidents where independant evaluation of speed was possible. (These are NOT 'A', 'B', 'C', or 'G' values)

The rear Impact data with more then 2-3 inches of crush damage should be looked at carefully, since some vehicles have very weak trunk & fender strength. Therefore, on some cars, especially GM, you estimate from the rear crush data may be high by as much as 4-5 mph (on a crush of 18 inches).

C:\Users\wardg\Documents\MicroSurvey\Forensic Scenes\14-0222F027-1
Job Description:
22:41:05 [REDACTED]

1 X: 0.000 Y: 0.000 Z: 0.000 D: RP
99 X: -3.316 Y: -20.077 Z: -0.325 D: RM
100 X: -41.710 Y: 54.245 Z: -18.226 D: LF
101 X: -44.616 Y: 62.125 Z: -17.750 D: LR
102 X: -50.110 Y: 60.102 Z: -17.857 D: RR
103 X: -46.791 Y: 52.126 Z: -18.374 D: RF
104 X: -49.411 Y: 56.476 Z: -18.200 D: FT
105 X: -49.513 Y: 58.056 Z: -18.138 D: FT
106 X: -19.874 Y: 50.423 Z: -17.688 D: FNC
107 X: -20.803 Y: 60.492 Z: -18.007 D: FNC
108 X: -20.761 Y: 70.202 Z: -18.241 D: FNC
109 X: 6.488 Y: 47.119 Z: -16.550 D: POST
110 X: 14.082 Y: 45.275 Z: -16.423 D: POST
111 X: -18.354 Y: 41.178 Z: -16.751 D: FNC
112 X: -10.628 Y: 41.202 Z: -16.588 D: FNC
113 X: -1.461 Y: 42.202 Z: -16.328 D: FNC
114 X: 6.942 Y: 43.081 Z: -16.345 D: FNC
115 X: 35.137 Y: 45.545 Z: -16.164 D: FNC
116 X: 43.840 Y: 46.402 Z: -16.294 D: FNC
117 X: 15.733 Y: 44.409 Z: -16.075 D: UT PL
118 X: 59.519 Y: 35.800 Z: -14.691 D: DBR
119 X: 59.543 Y: 35.801 Z: -14.687 D: DBR RED TAILLIGHT
DEBRIS
120 X: 76.211 Y: 24.861 Z: -9.537 D: DBR CLEAR CORNER FRONT
LENS
121 X: 81.095 Y: 24.551 Z: -9.015 D: GG
122 X: 76.803 Y: 25.056 Z: -9.633 D: GG
123 X: 72.424 Y: 24.681 Z: -9.650 D: GG
124 X: 70.496 Y: 24.520 Z: -9.411 D: MPCT
125 X: 70.904 Y: 25.325 Z: -9.990 D: MPCT
126 X: 69.486 Y: 26.129 Z: -10.419 D: MPCT
127 X: 69.254 Y: 25.276 Z: -10.071 D: MPCT
128 X: 89.449 Y: 20.420 Z: -6.246 D: MPCT
129 X: 87.893 Y: 18.690 Z: -5.360 D: MPCT
130 X: 76.484 Y: 22.748 Z: -8.389 D: MPCT
131 X: 82.125 Y: 23.528 Z: -8.438 D: MPCT
132 X: 61.486 Y: 36.940 Z: -15.047 D: GG
133 X: 57.302 Y: 37.849 Z: -15.111 D: GG
134 X: 41.815 Y: 38.105 Z: -15.212 D: GG
135 X: 38.087 Y: 36.692 Z: -15.090 D: GG
136 X: 34.460 Y: 36.874 Z: -15.168 D: GG
137 X: 34.036 Y: 34.643 Z: -14.780 D: GG
138 X: 30.533 Y: 36.696 Z: -15.188 D: GG
139 X: 31.321 Y: 34.107 Z: -14.771 D: GG
140 X: 33.800 Y: 33.182 Z: -14.582 D: GG
141 X: -172.839 Y: -40.337 Z: -3.303 D: EOA
142 X: -141.280 Y: -32.496 Z: -2.322 D: EOA
143 X: -91.101 Y: -20.578 Z: -0.911 D: EOA
144 X: -37.974 Y: -10.745 Z: -0.100 D: EOA
145 X: -9.310 Y: -6.650 Z: 0.331 D: EOA

146 X: 29.895 Y: -1.748 Z: 0.609 D: EOA
147 X: 73.866 Y: 2.764 Z: 0.746 D: EOA
148 X: 144.803 Y: 7.984 Z: 0.466 D: EOA
149 X: -79.856 Y: -20.691 Z: -0.707 D: WL NORTH EDGE
150 X: -34.964 Y: -12.731 Z: -0.024 D: WL
151 X: -6.999 Y: -8.747 Z: 0.296 D: WL
152 X: 50.013 Y: -2.126 Z: 0.731 D: WL
153 X: 132.077 Y: 4.935 Z: 0.568 D: WL

C:\Users\wardg\Documents\MicroSurvey\Forensic Scenes\14-0222F027-1

Job Description:

22:41:05

154 X: 182.803 Y: 6.809 Z: 0.183 D: WL
155 X: 250.648 Y: 5.467 Z: -0.863 D: WL
156 X: 336.557 Y: -0.984 Z: -2.708 D: WL
157 X: 336.448 Y: 0.168 Z: -2.750 D: EOA
158 X: 412.993 Y: -10.192 Z: -4.640 D: WL
159 X: 542.755 Y: -29.384 Z: -8.253 D: WL
160 X: 649.852 Y: -45.737 Z: -10.528 D: WL
161 X: 749.788 Y: -61.190 Z: -11.834 D: WL
162 X: 838.729 Y: -74.711 Z: -12.473 D: WL
163 X: 918.398 Y: -86.410 Z: -12.592 D: WL
164 X: 918.535 Y: -85.470 Z: -12.727 D: EOA
165 X: 957.305 Y: -91.878 Z: -12.880 D: WL
166 X: 1021.663 Y: -100.530 Z: -12.969 D: WL
167 X: 1115.029 Y: -111.104 Z: -13.098 D: WL
168 X: 1117.728 Y: -109.786 Z: -12.416 D: WL
169 X: 1119.591 Y: -110.265 Z: -12.423 D: EOA
170 X: 302.026 Y: 3.766 Z: -1.988 D: S
171 X: 293.453 Y: 5.218 Z: -1.824 D: S
172 X: 278.542 Y: 7.376 Z: -1.459 D: S
173 X: 266.806 Y: 8.724 Z: -1.162 D: S
174 X: 256.197 Y: 9.652 Z: -1.091 D: S
175 X: 251.506 Y: 10.098 Z: -1.035 D: S
176 X: 246.798 Y: 11.131 Z: -1.039 D: GRL
177 X: 239.470 Y: 11.114 Z: -0.834 D: GRL
178 X: 230.977 Y: 11.390 Z: -0.724 D: GRL
179 X: 220.253 Y: 11.743 Z: -0.524 D: GRL
180 X: 189.275 Y: 11.987 Z: -0.321 D: GRL
181 X: 118.596 Y: 9.419 Z: 0.456 D: GRL
182 X: 72.566 Y: 6.574 Z: 0.208 D: GRL
183 X: 25.212 Y: 0.977 Z: 0.475 D: GRL
184 X: -7.803 Y: -3.898 Z: 0.198 D: GRL
185 X: -42.494 Y: -9.510 Z: -0.296 D: GRL
186 X: -77.717 Y: -15.842 Z: -0.946 D: GRL
187 X: -89.734 Y: -18.183 Z: -1.190 D: GRL
188 X: -103.212 Y: -20.709 Z: -1.534 D: GRL
189 X: -103.520 Y: -19.443 Z: -1.857 D: GRL
190 X: -93.239 Y: -17.728 Z: -1.387 D: GRL
191 X: -81.676 Y: -15.892 Z: -1.185 D: GRL
192 X: -77.740 Y: -15.333 Z: -1.105 D: GRL
193 X: 221.303 Y: 12.859 Z: -0.616 D: GRL
194 X: 230.920 Y: 13.042 Z: -0.844 D: GRL
195 X: 247.175 Y: 12.839 Z: -0.984 D: GRL
196 X: 244.970 Y: 12.041 Z: -0.374 D: SCP

```

197 X: 243.527 Y: 12.045 Z: -0.278 D: SCP
198 X: 243.177 Y: 12.636 Z: -0.218 D: SCP UNDERCARRIAGE
SCRAPE
199 X: 239.775 Y: 12.908 Z: 0.141 D: SCP RUBBER TRANSFER
200 X: 239.688 Y: 12.850 Z: 0.139 D: SCP
201 X: 235.488 Y: 12.863 Z: 0.491 D: SCP
202 X: 233.049 Y: 12.842 Z: 1.017 D: SCP
203 X: 228.996 Y: 12.518 Z: 1.401 D: SCP RUBBER TRANSFER
204 X: 227.041 Y: 12.509 Z: 1.572 D: SCP
205 X: 226.409 Y: -4.191 Z: -0.824 D: YLX2
206 X: 211.289 Y: -3.942 Z: -0.555 D: YLX2
207 X: 127.011 Y: -7.162 Z: 0.305 D: YLX2
208 X: 65.948 Y: -11.525 Z: 0.332 D: YLX2
209 X: 23.066 Y: -16.299 Z: 0.029 D: YLX2

```

C:\Users\wardg\Documents\MicroSurvey\Forensic Scenes\14-0222F027-1

Job Description:

22:41:05 0

```

-----
210 X: -4.806 Y: -33.611 Z: -1.067 D: WL
211 X: -37.906 Y: -38.163 Z: -1.454 D: WL
212 X: -31.659 Y: -38.803 Z: -1.554 D: EOA
213 X: -0.885 Y: -34.967 Z: -1.377 D: EOA
214 X: 23.649 Y: -39.955 Z: -1.442 D: EOA
215 X: 41.993 Y: -51.435 Z: -1.732 D: EOA
216 X: 42.042 Y: -51.537 Z: -1.732 D: EOA
217 X: 53.056 Y: -65.458 Z: -1.497 D: EOA
218 X: 63.783 Y: -91.478 Z: -1.322 D: EOA
219 X: 69.089 Y: -118.512 Z: -1.921 D: EOA
220 X: 80.332 Y: -118.322 Z: -0.681 D: YLX2
221 X: 72.360 Y: -44.432 Z: -0.707 D: YLX2
222 X: 86.219 Y: -45.331 Z: -0.330 D: WL
223 X: 86.554 Y: -45.768 Z: -0.382 D: WL
224 X: 87.244 Y: -45.401 Z: -0.357 D: WL
225 X: 90.086 Y: -40.957 Z: -0.341 D: WL
226 X: 93.454 Y: -36.336 Z: -0.315 D: WL
227 X: 93.723 Y: -35.697 Z: -0.416 D: WL
228 X: 92.769 Y: -35.445 Z: -0.332 D: WL
229 X: 86.332 Y: -36.265 Z: -0.358 D: WL
230 X: 85.635 Y: -36.808 Z: -0.412 D: WL
231 X: 85.360 Y: -37.740 Z: -0.448 D: WL
232 X: 86.213 Y: -45.323 Z: -0.445 D: WL
233 X: 87.738 Y: -41.969 Z: -0.351 D: STOP
234 X: 92.906 Y: -111.973 Z: -0.886 D: EOA
235 X: 93.946 Y: -79.622 Z: -1.246 D: EOA
236 X: 103.057 Y: -57.410 Z: -1.383 D: EOA
237 X: 117.217 Y: -39.858 Z: -1.228 D: EOA
238 X: 132.553 Y: -28.670 Z: -1.125 D: EOA
239 X: 157.810 Y: -20.042 Z: -0.889 D: EOA
240 X: 188.476 Y: -16.974 Z: -1.103 D: EOA
241 X: 177.081 Y: -15.942 Z: -0.749 D: WL
242 X: 209.205 Y: -15.904 Z: -1.214 D: WL
243 X: 122.644 Y: -42.922 Z: -2.380 D: DNE DO NOT ENTER/YIELD
244 X: 121.772 Y: 12.565 Z: -0.084 D: SGN 41 / 70 / 135
245 X: 436.170 Y: -124.997 Z: -15.946 D: SGN
246 X: 435.834 Y: -125.957 Z: -15.758 D:

```

247 X: 263.390 Y: -18.277 Z: -2.035 D: WL
 248 X: 252.351 Y: -5.737 Z: -1.129 D: YL SOLID NORTH / DASH
 SOUTH
 249 X: 264.049 Y: -6.425 Z: -1.380 D: YL
 250 X: 292.285 Y: -8.320 Z: -2.017 D: YL
 251 X: 303.342 Y: -9.056 Z: -2.260 D: YL
 252 X: 303.817 Y: -20.860 Z: -2.965 D: WL
 253 X: 385.263 Y: -29.888 Z: -4.691 D: WL
 254 X: 470.641 Y: -41.562 Z: -6.355 D: WL
 255 X: 470.221 Y: -43.149 Z: -6.561 D: EOA
 256 X: 548.191 Y: -52.892 Z: -8.134 D: WL
 257 X: 545.947 Y: -61.815 Z: -9.982 D: SGN 55 MPH
 258 X: 605.606 Y: -61.451 Z: -9.318 D: WL
 259 X: 703.853 Y: -76.396 Z: -10.891 D: WL
 260 X: 838.685 Y: -96.987 Z: -12.175 D: WL
 261 X: 890.012 Y: -104.944 Z: -12.095 D: WL
 262 X: 889.609 Y: -106.889 Z: -12.238 D: EOA
 263 X: 891.344 Y: -93.389 Z: -11.957 D: YL END N SOLID
 264 X: 914.299 Y: -96.601 Z: -11.980 D: YL
 265 X: 926.490 Y: -98.450 Z: -12.066 D: YL

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Job Description:

22:41:05

266 X: 953.848 Y: -102.383 Z: -12.230 D: YL
 267 X: 964.432 Y: -103.837 Z: -12.282 D: YL
 268 X: 996.820 Y: -108.016 Z: -12.359 D: YL
 269 X: 1006.042 Y: -109.218 Z: -12.395 D: YL
 270 X: 1036.126 Y: -112.852 Z: -12.370 D: YL
 271 X: 1045.291 Y: -113.911 Z: -12.409 D: YL
 272 X: 1055.095 Y: -115.690 Z: -12.422 D: YL S SOLID / N DASH
 273 X: 1102.925 Y: -121.243 Z: -12.431 D: YL
 274 X: 1159.083 Y: -125.216 Z: -12.509 D: YL
 275 X: 1228.082 Y: -126.835 Z: -12.070 D: YL
 276 X: 1276.000 Y: -126.078 Z: -11.579 D: YL
 277 X: 1276.956 Y: -113.843 Z: -12.036 D: EOA
 278 X: 1276.954 Y: -115.279 Z: -11.837 D: WL
 279 X: 1212.674 Y: -116.170 Z: -12.534 D: WL
 280 X: 1130.976 Y: -112.558 Z: -12.779 D: WL
 281 X: 1292.780 Y: -139.525 Z: -11.226 D: EOA
 282 X: 1292.463 Y: -137.269 Z: -11.183 D: WL
 283 X: 1212.264 Y: -138.281 Z: -12.066 D: WL
 284 X: 1124.084 Y: -134.108 Z: -12.399 D: WL
 285 X: 1032.766 Y: -124.665 Z: -12.204 D: WL
 286 X: 943.827 Y: -112.954 Z: -12.215 D: WL
 287 X: 943.489 Y: -114.662 Z: -12.362 D: EOA
 288 X: 988.464 Y: -120.905 Z: -12.365 D: S
 289 X: 966.627 Y: -118.693 Z: -12.467 D: S
 290 X: 939.051 Y: -115.198 Z: -12.475 D: S
 291 X: 904.364 Y: -110.693 Z: -12.397 D: S
 292 X: 867.128 Y: -105.309 Z: -12.554 D: S
 293 X: 832.079 Y: -99.863 Z: -12.413 D: S
 294 X: 799.349 Y: -94.799 Z: -12.274 D: S
 295 X: 775.202 Y: -90.823 Z: -12.036 D: S
 296 X: 758.288 Y: -88.289 Z: -11.899 D: S

297 X:	741.362	Y:	-85.611	Z:	-11.730	D:	S
298 X:	723.049	Y:	-82.653	Z:	-11.434	D:	S
299 X:	704.881	Y:	-79.446	Z:	-11.055	D:	S
300 X:	694.403	Y:	-77.539	Z:	-11.010	D:	S
301 X:	676.025	Y:	-73.750	Z:	-10.735	D:	S
302 X:	653.136	Y:	-69.068	Z:	-10.280	D:	S
303 X:	648.111	Y:	-67.838	Z:	-10.176	D:	S WL N / LAST PNT WL S
304 X:	633.262	Y:	-64.342	Z:	-9.873	D:	S
305 X:	605.760	Y:	-57.065	Z:	-9.204	D:	S
306 X:	578.485	Y:	-49.245	Z:	-8.561	D:	S
307 X:	566.867	Y:	-46.292	Z:	-8.325	D:	S
308 X:	555.190	Y:	-43.487	Z:	-8.071	D:	S
309 X:	543.256	Y:	-40.579	Z:	-7.781	D:	S
310 X:	543.467	Y:	-45.372	Z:	-7.871	D:	S
311 X:	548.879	Y:	-46.570	Z:	-7.999	D:	S
312 X:	556.070	Y:	-48.144	Z:	-8.159	D:	S
313 X:	559.186	Y:	-48.945	Z:	-8.233	D:	S
314 X:	573.599	Y:	-53.112	Z:	-8.557	D:	S
315 X:	556.701	Y:	-48.918	Z:	-8.187	D:	S
316 X:	551.263	Y:	-47.740	Z:	-8.073	D:	S
317 X:	544.218	Y:	-46.044	Z:	-7.902	D:	S
318 X:	686.211	Y:	-76.899	Z:	-10.925	D:	S
319 X:	709.063	Y:	-81.782	Z:	-11.394	D:	S
320 X:	733.041	Y:	-85.857	Z:	-11.795	D:	S
321 X:	758.347	Y:	-89.646	Z:	-12.132	D:	S

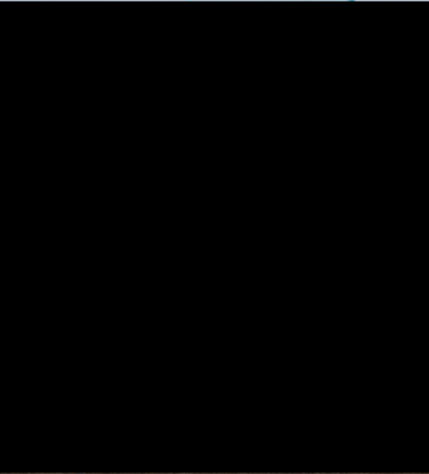
C:\Users\wardg\Documents\MicroSurvey\Forensic Scenes\14-0222F027-1

Job Description:

22:41:05

322 X:	799.237	Y:	-96.173	Z:	-12.522	D:	S
323 X:	831.794	Y:	-100.992	Z:	-12.638	D:	S
324 X:	864.700	Y:	-107.119	Z:	-12.709	D:	S
325 X:	938.904	Y:	-116.704	Z:	-12.833	D:	S
326 X:	979.137	Y:	-121.196	Z:	-12.540	D:	S
327 X:	999.692	Y:	-123.340	Z:	-12.411	D:	S
328 X:	1017.227	Y:	-124.631	Z:	-12.400	D:	S
329 X:	1102.965	Y:	-133.819	Z:	-12.447	D:	S
330 X:	1084.772	Y:	-133.107	Z:	-12.472	D:	S
331 X:	1084.754	Y:	-133.790	Z:	-12.479	D:	S
332 X:	1042.243	Y:	-130.580	Z:	-12.545	D:	S
333 X:	1018.127	Y:	-128.530	Z:	-12.894	D:	S
334 X:	1017.826	Y:	-129.060	Z:	-13.094	D:	S
335 X:	999.534	Y:	-127.639	Z:	-13.394	D:	S
336 X:	999.643	Y:	-126.415	Z:	-13.062	D:	S
337 X:	975.172	Y:	-123.929	Z:	-13.431	D:	S
338 X:	975.218	Y:	-125.273	Z:	-13.734	D:	S
339 X:	952.509	Y:	-122.727	Z:	-13.928	D:	S
340 X:	952.346	Y:	-121.398	Z:	-13.531	D:	S
341 X:	905.240	Y:	-115.137	Z:	-13.560	D:	S
342 X:	904.997	Y:	-116.736	Z:	-13.929	D:	S
343 X:	876.274	Y:	-112.237	Z:	-14.071	D:	S
344 X:	876.339	Y:	-111.243	Z:	-13.713	D:	S
345 X:	839.403	Y:	-105.410	Z:	-13.987	D:	S
346 X:	839.196	Y:	-106.430	Z:	-14.212	D:	S
347 X:	821.411	Y:	-103.653	Z:	-14.054	D:	S

348	X:	821.660	Y:	-102.820	Z:	-13.785	D:	S
349	X:	788.878	Y:	-97.661	Z:	-13.685	D:	S
350	X:	788.742	Y:	-98.445	Z:	-13.905	D:	S
351	X:	762.174	Y:	-94.169	Z:	-13.673	D:	S
352	X:	762.158	Y:	-93.422	Z:	-13.475	D:	S
353	X:	741.168	Y:	-89.408	Z:	-13.071	D:	S
354	X:	741.102	Y:	-89.932	Z:	-13.225	D:	S
355	X:	720.392	Y:	-86.658	Z:	-12.900	D:	S
356	X:	720.418	Y:	-85.842	Z:	-12.820	D:	S
357	X:	688.239	Y:	-80.064	Z:	-11.933	D:	S
358	X:	688.097	Y:	-80.927	Z:	-12.243	D:	S
359	X:	670.755	Y:	-77.365	Z:	-11.739	D:	S
360	X:	670.838	Y:	-76.561	Z:	-11.520	D:	S
361	X:	655.913	Y:	-73.586	Z:	-11.177	D:	S
362	X:	655.725	Y:	-74.381	Z:	-11.353	D:	S
363	X:	635.544	Y:	-69.466	Z:	-10.311	D:	S
364	X:	635.421	Y:	-68.860	Z:	-10.218	D:	S
365	X:	623.752	Y:	-66.515	Z:	-9.943	D:	S
366	X:	606.579	Y:	-62.244	Z:	-9.330	D:	S
367	X:	602.940	Y:	-60.834	Z:	-9.225	D:	S
368	X:	-3.309	Y:	-20.069	Z:	-1.014	D:	RMDN





EXIT 40

EXIT 40

93

EXIT

EXIT 93

EXIT 93

EXIT 93

EXIT 93

EXIT 93



EXIT

ADULT

EXIT
40
A.S.A.

98
EXIT

Point Green 4
Arrow Rock 13



EXIT
40
M.P.H.

98
EXIT
→

West Grove &
Arroyo Ranch 13 →

133 141
40



EXIT
40
M.P.H.

98
EXIT
→

← Pilot Grove 6
Arrow Rock 13 →

US
70 40
13 21



98

EXIT
→

← Pilot Grove 6
Arrow Rock 13 →

70 140
188 141

7
↑



← Pilot Grove 6
Arrow Rock 13 →

I-70 I-40
135 41



← Pilot Grove 6
Arrow Rock 13 →

JCT
70 40
135 41

W

↑

← Pilot Grove 6
Arrow Rock 13 →

JCT
70 40
135 41
LEWIS & CLARK TRAIL
↑



ave 6
13 →















40
70 135

No Left Turn

[Blank sign]

135



No Left Turn

[Blank sign]

41

41

70 185

[Blank sign]



DO NOT
ENTER



55







NORTH
41

SPEED
LIMIT
55



EXIT
64

SPEED
LIMIT
55

NORTH

41







← Pilot Grove 6
Arrow Rock 13 →

JCT
70 40
135 41
↑



← Pilot Grove 6
Arrow Rock 13 →

JCT
70
135



← Pilot Grove 6
Arrow Rock 13 →

ARROW ROCK
NATIONAL HISTORIC SITE

← Pilot Grove 6
Arrow Rock 13 →

ARROW ROCK
HISTORIC DISTRICT

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← Pilot Grove 6
Arrow Rock 13 →



e 6
3
↓























NO STOPPING

35

41

70

135







41



70 135



41

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70 135
↑ ↓

135

135

































HUNTER-DORRAN























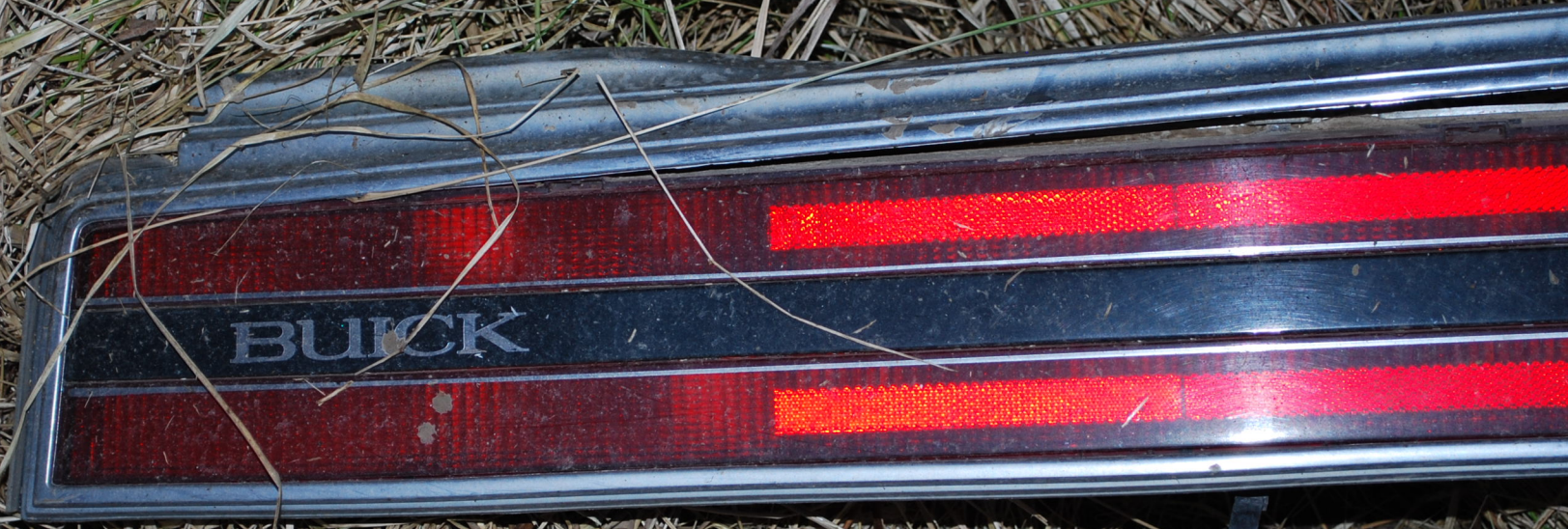












BUICK



















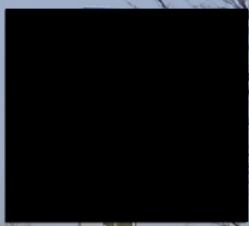












← Pilot Grove 6
Arrow Rock 12 →

LEWIS & CLARK
TRAIL
↑



← Pilot Grove 6
Arrow Rock 13 →

← Pilot Grove 6
Arrow Rock 13 →









CHEVROLET
89M571

41
↑

70
←

135
←







Small white sign on a black post, likely a survey or utility marker.







Turn down

Caused

Multiple fixed objects (including utility pole)

Vaulting / rollover

C:\Users\wardg\Documents\MicroSurvey\Forensic Scenes\14-0222F027-1
Job Description:
22:41:59

=====
Traverse Print Out
=====

Job Description: Crew: Inst: Temp: Press:

--Evidence Recorder v 9.0.3.5 (2012-11-02)
--Evidence Recorder v 9.0.3.5 (2012-11-02)
JB,NM14-0222F027-1,DT02-22-2014,TM13:35:48
MO,AD0,UN2,SF1.000000,EC0,EO0.0,AU0

--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
SP,PN1,N 0.0000,E 0.0000,EL0.0000,--RP
Store Point record, pt num = 1
x=0.000000, y=0.000000, z=0.000000, desc=RP

--Orientation

--Orientation

LS,HI5.240,HR7.000

OC,OP1,N 0.0000,E 0.0000,EL0.0000,--RP

BK,OP1,BP0,BS189.22460,BC189.22460

Setup	Backsight	BS Azimuth	BS Reading	Instrument Height
1	0	189.2246	189.2246	5.240

1 X: 0.000 Y: 0.000 Z: 0.000 D: RP

BR,OP1,BP0,AR189.22460,ZE85.57580,SD20.4000

SS,OP1,FP99,AR189.22460,ZE85.57580,SD20.4000,--RM

Pt#	HZAngle	SlpDist	VTang	ParOff	PerpOff	TgtHt	Description
99	189.2246	20.400	85.5758	0.000	0.000	7.000	RM

LS,HI5.240,HR7.000

OC,OP1,N 0.0000,E 0.0000,EL0.0000,--RP

BK,OP1,BP99,BS189.22460,BC189.22460

Setup	Backsight	BS Azimuth	BS Reading	Instrument Height
1	99	N/A	189.2246	5.240

1 X: 0.000 Y: 0.000 Z: 0.000 D: RP

99 X: -3.316 Y: -20.077 Z: -0.325 D: RM

BR,OP1,BP99,AR189.22460,ZE85.57580,SD20.4000

--Orientation Notes

--Orientation Notes

-- Observed Values: HA 189°22'46" VA 85°57'58" SD 20.40' HD 20.35'
HR 7.00'

-- Observed Values: HA 189°22'46" VA 85°57'58" SD 20.40' HD 20.35'
HR 7.00'

-- Observed Reference: Direction (Point Stored)

-- Observed Reference: Direction (Point Stored)

SS,OP1,FP100,AR322.26340,ZE103.31490,SD70.3799,--LF

Pt#	HZAngle	SlpDist	VTang	ParOff	PerpOff	TgtHt	Description
100	322.2634	70.380	103.3149	0.000	0.000	7.000	LF

SS,OP1,FP101,AR324.18550,ZE101.48280,SD78.1398,--LR

101 324.1855 78.140 101.4828 0.000 0.000 7.000 LR

SS,OP1,FP102,AR320.10510,ZE101.37270,SD79.8898,--RR

102 320.1051 79.890 101.3727 0.000 0.000 7.000 RR

SS,OP1,FP103,AR318.05140,ZE103.20340,SD71.9899,--RF

103 318.0514 71.990 103.2034 0.000 0.000 7.000 RF
 SS,OP1,FP104,AR318.49030,ZE102.21270,SD76.8198,--FT
 104 318.4903 76.820 102.2127 0.000 0.000 7.000 FT
 SS,OP1,FP105,AR319.32270,ZE102.06530,SD78.0398,--FT
 105 319.3227 78.040 102.0653 0.000 0.000 7.000 FT
 SS,OP1,FP106,AR338.29180,ZE106.22390,SD56.4899,--FNC
 106 338.2918 56.490 106.2239 0.000 0.000 7.000 FNC
 SS,OP1,FP107,AR341.01200,ZE104.15020,SD65.9999,--FNC
 C:\Users\wardg\Documents\MicroSurvey\Forensic Scenes\14-0222F027-1
 Job Description:
 22:41:59 0

107 341.0120 66.000 104.1502 0.000 0.000 7.000 FNC
 SS,OP1,FP108,AR343.31310,ZE102.41150,SD75.0398,--FNC
 108 343.3131 75.040 102.4115 0.000 0.000 7.000 FNC
 SS,OP1,FP109,AR7.50220,ZE107.16240,SD49.8099,--POST
 109 7.5022 49.810 107.1624 0.000 0.000 7.000 POST
 SS,OP1,FP110,AR17.16390,ZE107.11020,SD49.6299,--POST
 110 17.1639 49.630 107.1102 0.000 0.000 7.000 POST
 SS,OP1,FP111,AR335.58360,ZE108.23340,SD47.5099,--FNC
 111 335.5836 47.510 108.2334 0.000 0.000 7.000 FNC
 SS,OP1,FP112,AR345.32110,ZE109.12470,SD45.0599,--FNC
 112 345.3211 45.060 109.1247 0.000 0.000 7.000 FNC
 SS,OP1,FP113,AR358.01030,ZE109.02040,SD44.6699,--FNC
 113 358.0103 44.670 109.0204 0.000 0.000 7.000 FNC
 SS,OP1,FP114,AR9.09130,ZE108.28540,SD46.0099,--FNC
 114 9.0913 46.010 108.2854 0.000 0.000 7.000 FNC
 SS,OP1,FP115,AR37.38590,ZE104.03280,SD59.2999,--FNC
 115 37.3859 59.300 104.0328 0.000 0.000 7.000 FNC
 SS,OP1,FP116,AR43.22260,ZE102.49360,SD65.4699,--FNC
 116 43.2226 65.470 102.4936 0.000 0.000 7.000 FNC
 SS,OP1,FP117,AR19.30300,ZE106.54020,SD49.2399,--UT PL
 117 19.3030 49.240 106.5402 0.000 0.000 7.000 UT PL
 SS,OP1,FP118,AR58.58240,ZE100.32480,SD70.6499,--DBR
 118 58.5824 70.650 100.3248 0.000 0.000 7.000 DBR
 SS,OP1,FP119,AR58.59000,ZE100.32240,SD70.6699,--DBR
 119 58.5900 70.670 100.3224 0.000 0.000 7.000 DBR
 SS,OP1,FP120,AR71.55590,ZE95.32280,SD80.5398,--DBR
 120 71.5559 80.540 95.3228 0.000 0.000 7.000 DBR
 SS,OP1,FP121,AR73.09230,ZE94.53390,SD85.0398,--GG
 121 73.0923 85.040 94.5339 0.000 0.000 7.000 GG
 SS,OP1,FP122,AR71.55540,ZE95.33580,SD81.1698,--GG
 122 71.5554 81.170 95.3358 0.000 0.000 7.000 GG
 SS,OP1,FP123,AR71.10550,ZE95.53140,SD76.9198,--GG
 123 71.1055 76.920 95.5314 0.000 0.000 7.000 GG
 SS,OP1,FP124,AR70.49160,ZE95.51110,SD75.0298,--MPCT
 124 70.4916 75.030 95.5111 0.000 0.000 7.000 MPCT
 SS,OP1,FP125,AR70.20400,ZE96.14180,SD75.7398,--MPCT
 125 70.2040 75.740 96.1418 0.000 0.000 7.000 MPCT
 SS,OP1,FP126,AR69.23320,ZE96.39110,SD74.7399,--MPCT
 126 69.2332 74.740 96.3911 0.000 0.000 7.000 MPCT
 SS,OP1,FP127,AR69.56570,ZE96.25560,SD74.1899,--MPCT
 127 69.5657 74.190 96.2556 0.000 0.000 7.000 MPCT
 SS,OP1,FP128,AR77.08270,ZE92.47560,SD91.8598,--MPCT
 128 77.0827 91.860 92.4756 0.000 0.000 7.000 MPCT

SS,OP1,FP129,AR77.59430,ZE92.17390,SD89.9298,--MPCT
 129 77.5943 89.930 92.1739 0.000 0.000 7.000 MPCT
 SS,OP1,FP130,AR73.26120,ZE94.44560,SD80.0698,--MPCT
 130 73.2612 80.070 94.4456 0.000 0.000 7.000 MPCT
 SS,OP1,FP131,AR74.00480,ZE94.28120,SD85.6898,--MPCT
 131 74.0048 85.690 94.2812 0.000 0.000 7.000 MPCT
 SS,OP1,FP132,AR59.00120,ZE100.29410,SD72.9499,--GG
 132 59.0012 72.950 100.2941 0.000 0.000 7.000 GG
 SS,OP1,FP133,AR56.33160,ZE101.00060,SD69.9599,--GG
 133 56.3316 69.960 101.0006 0.000 0.000 7.000 GG
 SS,OP1,FP134,AR47.39280,ZE103.22330,SD58.1499,--GG
 134 47.3928 58.150 103.2233 0.000 0.000 7.000 GG
 SS,OP1,FP135,AR46.04090,ZE104.08470,SD54.5399,--GG

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 SS,OP1,FP136,AR43.03430,ZE104.52410,SD52.2199,--GG
 136 43.0343 52.220 104.5241 0.000 0.000 7.000 GG
 SS,OP1,FP137,AR44.29360,ZE105.00280,SD50.2799,--GG
 137 44.2936 50.280 105.0028 0.000 0.000 7.000 GG
 SS,OP1,FP138,AR39.45430,ZE105.42400,SD49.5899,--GG
 138 39.4543 49.590 105.4240 0.000 0.000 7.000 GG
 SS,OP1,FP139,AR42.33430,ZE105.41380,SD48.0999,--GG
 139 42.3343 48.100 105.4138 0.000 0.000 7.000 GG
 SS,OP1,FP140,AR45.31430,ZE105.08490,SD49.0699,--GG
 140 45.3143 49.070 105.0849 0.000 0.000 7.000 GG
 SS,OP1,FP141,AR256.51490,ZE90.29530,SD177.4896,--EOA
 141 256.5149 177.490 90.2953 0.000 0.000 7.000 EOA
 SS,OP1,FP142,AR257.02480,ZE90.13190,SD144.9697,--EOA
 142 257.0248 144.970 90.1319 0.000 0.000 7.000 EOA
 SS,OP1,FP143,AR257.16170,ZE89.28440,SD93.3998,--EOA
 143 257.1617 93.400 89.2844 0.000 0.000 7.000 EOA
 SS,OP1,FP144,AR254.12020,ZE87.35280,SD39.4999,--EOA
 144 254.1202 39.500 87.3528 0.000 0.000 7.000 EOA
 SS,OP1,FP145,AR234.27450,ZE79.38410,SD11.6300,--EOA
 145 234.2745 11.630 79.3841 0.000 0.000 7.000 EOA
 SS,OP1,FP146,AR93.20440,ZE85.28340,SD30.0399,--EOA
 146 93.2044 30.040 85.2834 0.000 0.000 7.000 EOA
 SS,OP1,FP147,AR87.51250,ZE88.03290,SD73.9599,--EOA
 147 87.5125 73.960 88.0329 0.000 0.000 7.000 EOA
 SS,OP1,FP148,AR86.50380,ZE89.07140,SD145.0397,--EOA
 148 86.5038 145.040 89.0714 0.000 0.000 7.000 EOA
 SS,OP1,FP149,AR255.28270,ZE89.16070,SD82.4998,--WL
 149 255.2827 82.500 89.1607 0.000 0.000 7.000 WL
 SS,OP1,FP150,AR249.59340,ZE87.19430,SD37.2499,--WL
 150 249.5934 37.250 87.1943 0.000 0.000 7.000 WL
 SS,OP1,FP151,AR218.39530,ZE79.36000,SD11.3900,--WL
 151 218.3953 11.390 79.3600 0.000 0.000 7.000 WL
 SS,OP1,FP152,AR92.26010,ZE87.09060,SD50.1199,--WL
 152 92.2601 50.120 87.0906 0.000 0.000 7.000 WL
 SS,OP1,FP153,AR87.51360,ZE88.59270,SD132.1897,--WL
 153 87.5136 132.190 88.5927 0.000 0.000 7.000 WL
 SS,OP1,FP154,AR87.52010,ZE89.23290,SD182.9396,--WL


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154  87.5201  182.940  89.2329  0.000    0.000    7.000  WL
SS,OP1,FP155,AR88.45020,ZE89.47420,SD250.7095,--WL
155  88.4502  250.709  89.4742  0.000    0.000    7.000  WL
SS,OP1,FP156,AR90.10030,ZE90.09410,SD336.5593,--WL
156  90.1003  336.559  90.0941  0.000    0.000    7.000  WL
SS,OP1,FP157,AR89.58170,ZE90.10070,SD336.4493,--EOA
157  89.5817  336.449  90.1007  0.000    0.000    7.000  EOA
SS,OP1,FP158,AR91.24490,ZE90.23580,SD413.1292,--WL
158  91.2449  413.129  90.2358  0.000    0.000    7.000  WL
SS,OP1,FP159,AR93.05560,ZE90.41040,SD543.5889,--WL
159  93.0556  543.589  90.4104  0.000    0.000    7.000  WL
SS,OP1,FP160,AR94.01330,ZE90.46160,SD651.5187,--WL
160  94.0133  651.519  90.4616  0.000    0.000    7.000  WL
SS,OP1,FP161,AR94.39560,ZE90.46020,SD752.3485,--WL
161  94.3956  752.348  90.4602  0.000    0.000    7.000  WL
SS,OP1,FP162,AR95.05250,ZE90.43440,SD842.1183,--WL
162  95.0525  842.118  90.4344  0.000    0.000    7.000  WL
SS,OP1,FP163,AR95.22300,ZE90.40220,SD922.5182,--WL
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Job Description:
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163  95.2230  922.518  90.4022  0.000    0.000    7.000  WL
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164  95.1858  922.568  90.4052  0.000    0.000    7.000  EOA
SS,OP1,FP165,AR95.28560,ZE90.39450,SD961.7681,--WL
165  95.2856  961.768  90.3945  0.000    0.000    7.000  WL
SS,OP1,FP166,AR95.37110,ZE90.37320,SD1026.6579,--WL
166  95.3711  1026.658  90.3732  0.000    0.000    7.000  WL
SS,OP1,FP167,AR95.41250,ZE90.34470,SD1120.6078,--WL
167  95.4125  1120.608  90.3447  0.000    0.000    7.000  WL
SS,OP1,FP168,AR95.36350,ZE90.32370,SD1123.1578,--WL
168  95.3635  1123.158  90.3237  0.000    0.000    7.000  WL
SS,OP1,FP169,AR95.37290,ZE90.32350,SD1125.0577,--EOA
169  95.3729  1125.058  90.3235  0.000    0.000    7.000  EOA
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--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
SS,OP1,FP170,AR89.17080,ZE90.02360,SD302.0494,--S
170  89.1708  302.049  90.0236  0.000    0.000    7.000  S
SS,OP1,FP171,AR88.58530,ZE90.00450,SD293.4994,--S
171  88.5853  293.499  90.0045  0.000    0.000    7.000  S
SS,OP1,FP172,AR88.28590,ZE89.56170,SD278.6394,--S
172  88.2859  278.639  89.5617  0.000    0.000    7.000  S
SS,OP1,FP173,AR88.07380,ZE89.52180,SD266.9495,--S
173  88.0738  266.950  89.5218  0.000    0.000    7.000  S
SS,OP1,FP174,AR87.50330,ZE89.51020,SD256.3795,--S
174  87.5033  256.380  89.5102  0.000    0.000    7.000  S
SS,OP1,FP175,AR87.42030,ZE89.50060,SD251.7095,--S
175  87.4203  251.709  89.5006  0.000    0.000    7.000  S
SS,OP1,FP176,AR87.25030,ZE89.49580,SD247.0495,--GRL
176  87.2503  247.049  89.4958  0.000    0.000    7.000  GRL
SS,OP1,FP177,AR87.20340,ZE89.46430,SD239.7295,--GRL
177  87.2034  239.730  89.4643  0.000    0.000    7.000  GRL
SS,OP1,FP178,AR87.10370,ZE89.44360,SD231.2595,--GRL
178  87.1037  231.260  89.4436  0.000    0.000    7.000  GRL

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SS,OP1,FP179,AR86.56530,ZE89.40440,SD220.5696,--GRL
 179 86.5653 220.570 89.4044 0.000 0.000 7.000 GRL
 SS,OP1,FP180,AR86.22340,ZE89.33550,SD189.6596,--GRL
 180 86.2234 189.660 89.3355 0.000 0.000 7.000 GRL
 SS,OP1,FP181,AR85.27320,ZE88.55580,SD118.9898,--GRL
 181 85.2732 118.990 88.5558 0.000 0.000 7.000 GRL
 SS,OP1,FP182,AR84.49260,ZE88.27110,SD72.8899,--GRL
 182 84.4926 72.890 88.2711 0.000 0.000 7.000 GRL
 SS,OP1,FP183,AR87.46520,ZE84.56160,SD25.3299,--GRL
 183 87.4652 25.330 84.5616 0.000 0.000 7.000 GRL
 SS,OP1,FP184,AR243.27130,ZE77.20540,SD8.9400,--GRL
 184 243.2713 8.940 77.2054 0.000 0.000 7.000 GRL
 SS,OP1,FP185,AR257.23070,ZE88.04300,SD43.5699,--GRL
 185 257.2307 43.570 88.0430 0.000 0.000 7.000 GRL
 SS,OP1,FP186,AR258.28430,ZE89.24430,SD79.3198,--GRL
 186 258.2843 79.320 89.2443 0.000 0.000 7.000 GRL
 SS,OP1,FP187,AR258.32420,ZE89.38350,SD91.5598,--GRL
 187 258.3242 91.560 89.3835 0.000 0.000 7.000 GRL
 SS,OP1,FP188,AR258.39160,ZE89.52370,SD105.2698,--GRL
 188 258.3916 105.270 89.5237 0.000 0.000 7.000 GRL
 SS,OP1,FP189,AR259.21450,ZE90.03100,SD105.3298,--GRL
 189 259.2145 105.330 90.0310 0.000 0.000 7.000 GRL
 SS,OP1,FP190,AR259.14050,ZE89.46300,SD94.9098,--GRL
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190 259.1405 94.910 89.4630 0.000 0.000 7.000 GRL
 SS,OP1,FP191,AR258.59220,ZE89.36150,SD83.2098,--GRL
 191 258.5922 83.210 89.3615 0.000 0.000 7.000 GRL
 SS,OP1,FP192,AR258.50340,ZE89.31360,SD79.2398,--GRL
 192 258.5034 79.240 89.3136 0.000 0.000 7.000 GRL
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 193 86.4028 221.680 89.4216 0.000 0.000 7.000 GRL
 SS,OP1,FP194,AR86.46030,ZE89.46230,SD231.2895,--GRL
 194 86.4603 231.290 89.4623 0.000 0.000 7.000 GRL
 SS,OP1,FP195,AR87.01360,ZE89.49130,SD247.5095,--GRL
 195 87.0136 247.510 89.4913 0.000 0.000 7.000 GRL
 SS,OP1,FP196,AR87.11100,ZE89.40340,SD245.2695,--SCP
 196 87.1110 245.269 89.4034 0.000 0.000 7.000 SCP
 SS,OP1,FP197,AR87.10060,ZE89.39060,SD243.8295,--SCP
 197 87.1006 243.830 89.3906 0.000 0.000 7.000 SCP
 SS,OP1,FP198,AR87.01320,ZE89.38140,SD243.5095,--SCP
 198 87.0132 243.510 89.3814 0.000 0.000 7.000 SCP
 SS,OP1,FP199,AR86.55070,ZE89.32470,SD240.1295,--SCP
 199 86.5507 240.130 89.3247 0.000 0.000 7.000 SCP
 SS,OP1,FP200,AR86.55520,ZE89.32480,SD240.0395,--SCP
 200 86.5552 240.040 89.3248 0.000 0.000 7.000 SCP
 SS,OP1,FP201,AR86.52240,ZE89.27110,SD235.8495,--SCP

201	86.5224	235.850	89.2711	0.000	0.000	7.000	SCP
SS,OP1,FP202,AR86.50450,ZE89.19060,SD233.4195,--SCP							
202	86.5045	233.420	89.1906	0.000	0.000	7.000	SCP
SS,OP1,FP203,AR86.52160,ZE89.12370,SD229.3595,--SCP							
203	86.5216	229.360	89.1237	0.000	0.000	7.000	SCP
SS,OP1,FP204,AR86.50470,ZE89.09380,SD227.4095,--SCP							
204	86.5047	227.410	89.0938	0.000	0.000	7.000	SCP
SS,OP1,FP205,AR91.03380,ZE89.45470,SD226.4495,--YLX2							
205	91.0338	226.450	89.4547	0.000	0.000	7.000	YLX2
SS,OP1,FP206,AR91.04080,ZE89.40240,SD211.3296,--YLX2							
206	91.0408	211.330	89.4024	0.000	0.000	7.000	YLX2
SS,OP1,FP207,AR93.13390,ZE89.04120,SD127.2297,--YLX2							
207	93.1339	127.230	89.0412	0.000	0.000	7.000	YLX2
SS,OP1,FP208,AR99.54460,ZE88.12370,SD66.9799,--YLX2							
208	99.5446	66.980	88.1237	0.000	0.000	7.000	YLX2
SS,OP1,FP209,AR125.14480,ZE86.22330,SD28.2999,--YLX2							
209	125.1448	28.300	86.2233	0.000	0.000	7.000	YLX2
SS,OP1,FP210,AR188.08180,ZE88.49520,SD33.9599,--WL							
210	188.0818	33.960	88.4952	0.000	0.000	7.000	WL
SS,OP1,FP211,AR224.48240,ZE89.40250,SD53.7899,--WL							
211	224.4824	53.790	89.4025	0.000	0.000	7.000	WL
SS,OP1,FP212,AR219.12390,ZE89.45500,SD50.0799,--EOA							
212	219.1239	50.080	89.4550	0.000	0.000	7.000	EOA
SS,OP1,FP213,AR181.26580,ZE89.22220,SD34.9799,--EOA							
213	181.2658	34.980	89.2222	0.000	0.000	7.000	EOA
SS,OP1,FP214,AR149.22440,ZE89.36280,SD46.4299,--EOA							
214	149.2244	46.430	89.3628	0.000	0.000	7.000	EOA
SS,OP1,FP215,AR140.46140,ZE89.58330,SD66.3999,--EOA							

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215	140.4614	66.400	89.5833	0.000	0.000	7.000	EOA
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SS,OP1,FP217,AR140.58260,ZE89.49170,SD84.2598,--EOA							
217	140.5826	84.260	89.4917	0.000	0.000	7.000	EOA
SS,OP1,FP218,AR145.06490,ZE89.46290,SD111.5198,--EOA							
218	145.0649	111.520	89.4629	0.000	0.000	7.000	EOA
SS,OP1,FP219,AR149.45330,ZE90.04020,SD137.1797,--EOA							
219	149.4533	137.180	90.0402	0.000	0.000	7.000	EOA
SS,OP1,FP220,AR145.49350,ZE89.34040,SD143.0197,--YLX2							
220	145.4935	143.020	89.3404	0.000	0.000	7.000	YLX2
SS,OP1,FP221,AR121.33060,ZE89.17220,SD84.9198,--YLX2							
221	121.3306	84.920	89.1722	0.000	0.000	7.000	YLX2
SS,OP1,FP222,AR117.44020,ZE89.09320,SD97.4198,--WL							
222	117.4402	97.420	89.0932	0.000	0.000	7.000	WL
SS,OP1,FP223,AR117.52080,ZE89.11380,SD97.9198,--WL							
223	117.5208	97.920	89.1138	0.000	0.000	7.000	WL
SS,OP1,FP224,AR117.29310,ZE89.10570,SD98.3598,--WL							
224	117.2931	98.360	89.1057	0.000	0.000	7.000	WL
SS,OP1,FP225,AR114.26550,ZE89.10430,SD98.9698,--WL							
225	114.2655	98.970	89.1043	0.000	0.000	7.000	WL
SS,OP1,FP226,AR111.14490,ZE89.10270,SD100.2798,--WL							
226	111.1449	100.280	89.1027	0.000	0.000	7.000	WL


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SS,OP1,FP227,AR110.51020,ZE89.13550,SD100.2998,--WL
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SS,OP1,FP228,AR110.54390,ZE89.10340,SD99.3198,--WL
228 110.5439 99.320 89.1034 0.000 0.000 7.000 WL
SS,OP1,FP229,AR112.47070,ZE89.08320,SD93.6498,--WL
229 112.4707 93.650 89.0832 0.000 0.000 7.000 WL
SS,OP1,FP230,AR113.15330,ZE89.10170,SD93.2198,--WL
230 113.1533 93.220 89.1017 0.000 0.000 7.000 WL
SS,OP1,FP231,AR113.51060,ZE89.11400,SD93.3398,--WL
231 113.5106 93.340 89.1140 0.000 0.000 7.000 WL
SS,OP1,FP232,AR117.43530,ZE89.13350,SD97.4098,--WL
232 117.4353 97.410 89.1335 0.000 0.000 7.000 WL
SS,OP1,FP233,AR115.33500,ZE89.10120,SD97.2698,--STOP
233 115.3350 97.270 89.1012 0.000 0.000 7.000 STOP
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234 140.1901 145.500 89.3921 0.000 0.000 7.000 EOA
SS,OP1,FP235,AR130.16560,ZE89.45390,SD123.1498,--EOA
235 130.1656 123.150 89.4539 0.000 0.000 7.000 EOA
SS,OP1,FP236,AR119.07150,ZE89.49010,SD117.9698,--EOA
236 119.0715 117.970 89.4901 0.000 0.000 7.000 EOA
SS,OP1,FP237,AR108.46470,ZE89.45140,SD123.8098,--EOA
237 108.4647 123.810 89.4514 0.000 0.000 7.000 EOA
SS,OP1,FP238,AR102.12170,ZE89.43540,SD135.6197,--EOA
238 102.1217 135.620 89.4354 0.000 0.000 7.000 EOA
SS,OP1,FP239,AR97.14160,ZE89.41100,SD159.0797,--EOA
239 97.1416 159.080 89.4110 0.000 0.000 7.000 EOA
SS,OP1,FP240,AR95.08460,ZE89.48040,SD189.2396,--EOA
240 95.0846 189.240 89.4804 0.000 0.000 7.000 EOA
SS,OP1,FP241,AR95.08390,ZE89.40270,SD177.7996,--WL
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SS,OP1,FP242,AR94.20500,ZE89.51030,SD209.8096,--WL
242 94.2050 209.810 89.5103 0.000 0.000 7.000 WL
SS,OP1,FP243,AR109.17190,ZE90.16310,SD129.9397,--DNE

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Job Description:

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SS,OP1,FP245,AR105.59280,ZE91.47270,SD453.9491,--SGN
245 105.5928 453.949 91.4727 0.000 0.000 7.000 SGN

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--Evidence Recorder v 9.0.3.5 (2012-11-02)

--Evidence Recorder v 9.0.3.5 (2012-11-02)

JB,NM14-0222F027-1,DT02-22-2014,TM17:03:34

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--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX

--Resection

--Resection

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SP,PN99,N -20.0774,E -3.3164,EL-0.3249,--RM

Store Point record, pt num = 99


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x=-3.316400, y=-20.077400, z=-0.324900, desc=RM
--Resection Obs: Horz-Yes Vert-Yes
--Resection Obs: Horz-Yes Vert-Yes
LS,HI5.000,HR7.000
RS,PN170,CR321.58510,ZE85.03310,SD187.0696
Resection start 2004 record, instrument height = 5.000000
Resection shot 2004 record:
slope=187.069600 CR=321.5851 tght=7.000000 vert=85.0331 to_pt=170
--Resection Obs: Horz-Yes Vert-Yes
--Resection Obs: Horz-Yes Vert-Yes
RS,PN170,CR321.58120,ZE85.03410,SD187.0796
Resection shot 2004 record:
slope=187.079600 CR=321.5812 tght=7.000000 vert=85.0341 to_pt=170
--Resection Obs: Horz-Yes Vert-Yes
--Resection Obs: Horz-Yes Vert-Yes
RS,PN99,CR291.25370,ZE87.52330,SD452.0091
Resection shot 2004 record:
slope=452.009100 CR=291.2537 tght=7.000000 vert=87.5233 to_pt=99
--Resection Pnt: StdDevN=0.10' StdDevE=0.06'
--Resection Pnt: StdDevN=0.10' StdDevE=0.06'
SP,PN246,N -125.9568,E 435.8343,EL-15.7582,--
Resection finish 2004 record, pt num = 246
Store Point record, pt num = 246
x=435.834300, y=-125.956800, z=-15.758200, desc=
--Orientation
--Orientation
LS,HI5.000,HR7.000
OC,OP246,N -125.9568,E 435.8343,EL-15.7582,--
BK,OP246,BP170,BS314.06427,BC321.58510
Setup Backsight BS Azimuth BS Reading Instrument Height
246 170 N/A 321.5851 5.000
246 X: 435.834 Y: -125.957 Z: -15.758 D:
170 X: 302.026 Y: 3.766 Z: -1.988 D: S
BR,OP246,BP170,AR321.58510,ZE85.03310,SD187.0696
--Orientation Notes
--Orientation Notes
-- Observed Values: HA 321°58'51" VA 85°03'31" SD 187.07' HD
186.37' HR 7.00'
-- Observed Values: HA 321°58'51" VA 85°03'31" SD 187.07' HD
186.37' HR 7.00'
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Job Description:
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----
-- Observed Reference: Point
-- Observed Reference: Point
-- Distance Calculated: 186.37'
-- Distance Calculated: 186.37'
-- Distance Error: 0.01'
-- Distance Error: 0.01'
-- BS Elevation: -1.64'
-- BS Elevation: -1.64'
-- BS Elevation Error: 0.34'
-- BS Elevation Error: 0.34'
SS,OP246,FP247,AR309.51040,ZE85.34390,SD203.9096,--WL

```


Pt#	HZAngle	SlpDist	VTang	ParOff	PerpOff	TgtHt	Description
247	309.5104	203.910	85.3439	0.000	0.000	7.000	WL
SS,OP246,FP248,AR311.06080,ZE85.39530,SD219.9896,--YL							
248	311.0608	219.990	85.3953	0.000	0.000	7.000	YL
SS,OP246,FP249,AR312.42000,ZE85.31310,SD209.9196,--YL							
249	312.4200	209.920	85.3131	0.000	0.000	7.000	YL
SS,OP246,FP250,AR317.12120,ZE85.09070,SD186.2596,--YL							
250	317.1212	186.260	85.0907	0.000	0.000	7.000	YL
SS,OP246,FP251,AR319.17300,ZE84.59140,SD177.3696,--YL							
251	319.1730	177.370	84.5914	0.000	0.000	7.000	YL
SS,OP246,FP252,AR316.23300,ZE84.59240,SD169.3897,--WL							
252	316.2330	169.390	84.5924	0.000	0.000	7.000	WL
SS,OP246,FP253,AR340.06220,ZE83.08120,SD109.3498,--WL							
253	340.0622	109.350	83.0812	0.000	0.000	7.000	WL
SS,OP246,FP254,AR30.16530,ZE82.52470,SD91.9998,--WL							
254	30.1653	92.000	82.5247	0.000	0.000	7.000	WL
SS,OP246,FP255,AR30.25120,ZE82.52540,SD90.3598,--EOA							
255	30.2512	90.360	82.5254	0.000	0.000	7.000	EOA
SS,OP246,FP256,AR64.50000,ZE85.53340,SD134.3697,--WL							
256	64.5000	134.370	85.5334	0.000	0.000	7.000	WL
SS,OP246,FP257,AR67.38520,ZE86.30290,SD127.6697,--SGN							
257	67.3852	127.670	86.3029	0.000	0.000	7.000	SGN
SS,OP246,FP258,AR77.03520,ZE87.20210,SD181.8096,--WL							
258	77.0352	181.810	87.2021	0.000	0.000	7.000	WL
SS,OP246,FP259,AR87.23330,ZE88.33240,SD272.6495,--WL							
259	87.2333	272.649	88.3324	0.000	0.000	7.000	WL
SS,OP246,FP260,AR93.45210,ZE89.12290,SD403.9292,--WL							
260	93.4521	403.929	89.1229	0.000	0.000	7.000	WL
SS,OP246,FP261,AR95.13120,ZE89.17110,SD454.6991,--WL							
261	95.1312	454.699	89.1711	0.000	0.000	7.000	WL
SS,OP246,FP262,AR95.27460,ZE89.18130,SD454.2091,--EOA							
262	95.2746	454.209	89.1813	0.000	0.000	7.000	EOA
SS,OP246,FP263,AR93.46460,ZE89.16200,SD456.7091,--YL							
263	93.4646	456.709	89.1620	0.000	0.000	7.000	YL
SS,OP246,FP264,AR94.21290,ZE89.18340,SD479.3990,--YL							
264	94.2129	479.399	89.1834	0.000	0.000	7.000	YL
SS,OP246,FP265,AR94.39370,ZE89.20110,SD491.4590,--YL							
265	94.3937	491.459	89.2011	0.000	0.000	7.000	YL
SS,OP246,FP266,AR95.15480,ZE89.23210,SD518.5790,--YL							
266	95.1548	518.579	89.2321	0.000	0.000	7.000	YL
SS,OP246,FP267,AR95.28220,ZE89.24250,SD529.0889,--YL							
267	95.2822	529.089	89.2425	0.000	0.000	7.000	YL
SS,OP246,FP268,AR96.02140,ZE89.26560,SD561.2989,--YL							
268	96.0214	561.299	89.2656	0.000	0.000	7.000	YL
SS,OP246,FP269,AR96.11150,ZE89.27410,SD570.4789,--YL							

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269	96.1115	570.479	89.2741	0.000	0.000	7.000	YL
SS,OP246,FP270,AR96.37060,ZE89.29090,SD600.4588,--YL							
270	96.3706	600.459	89.2909	0.000	0.000	7.000	YL
SS,OP246,FP271,AR96.44120,ZE89.29500,SD609.5988,--YL							
271	96.4412	609.599	89.2950	0.000	0.000	7.000	YL
SS,OP246,FP272,AR96.55090,ZE89.30230,SD619.3688,--YL							

272	96.5509	619.369	89.3023	0.000	0.000	7.000	YL
SS,OP246,FP273,AR97.27510,ZE89.32330,SD667.1287,--YL							
273	97.2751	667.129	89.3233	0.000	0.000	7.000	YL
SS,OP246,FP274,AR97.48370,ZE89.35030,SD723.2686,--YL							
274	97.4837	723.269	89.3503	0.000	0.000	7.000	YL
SS,OP246,FP275,AR97.55570,ZE89.35190,SD792.2684,--YL							
275	97.5557	792.268	89.3519	0.000	0.000	7.000	YL
SS,OP246,FP276,AR97.52380,ZE89.34430,SD840.1883,--YL							
276	97.5238	840.188	89.3443	0.000	0.000	7.000	YL
SS,OP246,FP277,AR97.02380,ZE89.36370,SD841.2283,--EOA							
277	97.0238	841.228	89.3637	0.000	0.000	7.000	EOA
SS,OP246,FP278,AR97.08300,ZE89.35480,SD841.2083,--WL							
278	97.0830	841.208	89.3548	0.000	0.000	7.000	WL
SS,OP246,FP279,AR97.08500,ZE89.36530,SD776.9184,--WL							
279	97.0850	776.918	89.3653	0.000	0.000	7.000	WL
SS,OP246,FP280,AR96.45530,ZE89.35230,SD695.2886,--WL							
280	96.4553	695.289	89.3523	0.000	0.000	7.000	WL
SS,OP246,FP281,AR98.46340,ZE89.33480,SD857.0783,--EOA							
281	98.4634	857.078	89.3348	0.000	0.000	7.000	EOA
SS,OP246,FP282,AR98.37320,ZE89.33370,SD856.7283,--WL							
282	98.3732	856.728	89.3337	0.000	0.000	7.000	WL
SS,OP246,FP283,AR98.46420,ZE89.34480,SD776.5484,--WL							
283	98.4642	776.548	89.3448	0.000	0.000	7.000	WL
SS,OP246,FP284,AR98.32510,ZE89.33140,SD688.3186,--WL							
284	98.3251	688.319	89.3314	0.000	0.000	7.000	WL
SS,OP246,FP285,AR97.44420,ZE89.28010,SD596.9588,--WL							
285	97.4442	596.959	89.2801	0.000	0.000	7.000	WL
SS,OP246,FP286,AR96.24100,ZE89.22300,SD508.1890,--WL							
286	96.2410	508.189	89.2230	0.000	0.000	7.000	WL
SS,OP246,FP287,AR96.35400,ZE89.23280,SD507.8090,--EOA							
287	96.3540	507.809	89.2328	0.000	0.000	7.000	EOA
SS,OP246,FP288,AR97.20430,ZE89.26270,SD552.6789,--S							
288	97.2043	552.679	89.2627	0.000	0.000	7.000	S
SS,OP246,FP289,AR97.05060,ZE89.25440,SD530.8689,--S							
289	97.0506	530.869	89.2544	0.000	0.000	7.000	S
SS,OP246,FP290,AR96.38390,ZE89.23550,SD503.3590,--S							
290	96.3839	503.359	89.2355	0.000	0.000	7.000	S
SS,OP246,FP291,AR96.00110,ZE89.20410,SD468.8091,--S							
291	96.0011	468.809	89.2041	0.000	0.000	7.000	S
SS,OP246,FP292,AR95.07410,ZE89.18340,SD431.8191,--S							
292	95.0741	431.819	89.1834	0.000	0.000	7.000	S
SS,OP246,FP293,AR94.06050,ZE89.13440,SD397.1392,--S							
293	94.0605	397.139	89.1344	0.000	0.000	7.000	S
SS,OP246,FP294,AR92.58120,ZE89.08200,SD364.8893,--S							
294	92.5812	364.889	89.0820	0.000	0.000	7.000	S
SS,OP246,FP295,AR91.57300,ZE89.02210,SD341.2293,--S							
295	91.5730	341.229	89.0221	0.000	0.000	7.000	S
SS,OP246,FP296,AR91.12220,ZE88.57580,SD324.6994,--S							
296	91.1222	324.699	88.5758	0.000	0.000	7.000	S
SS,OP246,FP297,AR90.20470,ZE88.52460,SD308.2394,--S							

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Job Description:

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 297 90.2047 308.239 88.5246 0.000 0.000 7.000 S


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SS,OP246,FP298,AR89.17420,ZE88.45100,SD290.5294,--S
298 89.1742 290.529 88.4510 0.000 0.000 7.000 S
SS,OP246,FP299,AR88.03400,ZE88.35370,SD273.1195,--S
299 88.0340 273.120 88.3537 0.000 0.000 7.000 S
SS,OP246,FP300,AR87.15470,ZE88.31500,SD263.1495,--S
300 87.1547 263.149 88.3150 0.000 0.000 7.000 S
SS,OP246,FP301,AR85.36220,ZE88.21480,SD245.8995,--S
301 85.3622 245.899 88.2148 0.000 0.000 7.000 S
SS,OP246,FP302,AR83.11540,ZE88.05360,SD224.7496,--S
302 83.1154 224.750 88.0536 0.000 0.000 7.000 S
SS,OP246,FP303,AR82.33260,ZE88.01370,SD220.2196,--S
303 82.3326 220.220 88.0137 0.000 0.000 7.000 S
SS,OP246,FP304,AR80.32110,ZE87.49000,SD206.9696,--S
304 80.3211 206.970 87.4900 0.000 0.000 7.000 S
SS,OP246,FP305,AR75.48010,ZE87.19440,SD183.5596,--S
305 75.4801 183.560 87.1944 0.000 0.000 7.000 S
SS,OP246,FP306,AR69.35580,ZE86.45000,SD162.2297,--S
306 69.3558 162.230 86.4500 0.000 0.000 7.000 S
SS,OP246,FP307,AR66.34130,ZE86.28480,SD153.6397,--S
307 66.3413 153.640 86.2848 0.000 0.000 7.000 S
SS,OP246,FP308,AR63.13340,ZE86.10470,SD145.3997,--S
308 63.1334 145.400 86.1047 0.000 0.000 7.000 S
SS,OP246,FP309,AR59.23300,ZE85.50290,SD137.5797,--S
309 59.2330 137.580 85.5029 0.000 0.000 7.000 S
SS,OP246,FP310,AR61.02480,ZE85.47400,SD134.8197,--S
310 61.0248 134.820 85.4740 0.000 0.000 7.000 S
SS,OP246,FP311,AR62.47250,ZE85.57310,SD138.4797,--S
311 62.4725 138.480 85.5731 0.000 0.000 7.000 S
SS,OP246,FP312,AR64.57340,ZE86.09560,SD143.5397,--S
312 64.5734 143.540 86.0956 0.000 0.000 7.000 S
SS,OP246,FP313,AR65.53280,ZE86.15090,SD145.7297,--S
313 65.5328 145.730 86.1509 0.000 0.000 7.000 S
SS,OP246,FP314,AR70.00030,ZE86.37150,SD156.1097,--S
314 70.0003 156.110 86.3715 0.000 0.000 7.000 S
SS,OP246,FP315,AR65.21220,ZE86.10470,SD143.6497,--S
315 65.2122 143.650 86.1047 0.000 0.000 7.000 S
SS,OP246,FP316,AR63.44480,ZE86.01350,SD139.7697,--S
316 63.4448 139.770 86.0135 0.000 0.000 7.000 S
SS,OP246,FP317,AR61.28020,ZE85.48490,SD135.0197,--S
317 61.2802 135.020 85.4849 0.000 0.000 7.000 S
--Evidence Recorder v 9.0.3.5 (2012-11-02)
--Evidence Recorder v 9.0.3.5 (2012-11-02)
JB,NM14-0222F027-1,DT02-22-2014,TM17:53:06
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--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
SS,OP246,FP318,AR86.46590,ZE88.27570,SD255.2295,--S
318 86.4659 255.230 88.2757 0.000 0.000 7.000 S
SS,OP246,FP319,AR88.41060,ZE88.40580,SD276.8494,--S
319 88.4106 276.849 88.4058 0.000 0.000 7.000 S
SS,OP246,FP320,AR90.11060,ZE88.51390,SD299.9594,--S
320 90.1106 299.959 88.5139 0.000 0.000 7.000 S
SS,OP246,FP321,AR91.26430,ZE89.00250,SD324.5994,--S
321 91.2643 324.599 89.0025 0.000 0.000 7.000 S
SS,OP246,FP322,AR93.11010,ZE89.10380,SD364.6593,--S

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Job Description:

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322 93.1101 364.659 89.1038 0.000 0.000 7.000 S
SS,OP246,FP323,AR94.15410,ZE89.15380,SD396.7792,--S
323 94.1541 396.779 89.1538 0.000 0.000 7.000 S
SS,OP246,FP324,AR95.21140,ZE89.19340,SD429.3091,--S
324 95.2114 429.309 89.1934 0.000 0.000 7.000 S
--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
--Evidence Recorder v 9.0.3.5 (2012-11-02)
--Evidence Recorder v 9.0.3.5 (2012-11-02)
JB,NM14-0222F027-1,DT02-22-2014,TM18:47:22
MO,AD0,UN2,SF1.000000,EC0,E00.0,AU0
--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX
SS,OP246,FP325,AR96.48550,ZE89.26210,SD503.1790,--S
325 96.4855 503.179 89.2621 0.000 0.000 7.000 S
SS,OP246,FP326,AR97.22010,ZE89.26590,SD543.3489,--S
326 97.2201 543.349 89.2659 0.000 0.000 7.000 S
SS,OP246,FP327,AR97.36110,ZE89.27240,SD563.8889,--S
327 97.3611 563.889 89.2724 0.000 0.000 7.000 S
SS,OP246,FP328,AR97.44180,ZE89.28190,SD581.4188,--S
328 97.4418 581.419 89.2819 0.000 0.000 7.000 S
SS,OP246,FP329,AR98.32390,ZE89.32380,SD667.1987,--S
329 98.3239 667.199 89.3238 0.000 0.000 7.000 S
SS,OP246,FP330,AR98.30010,ZE89.32000,SD648.9987,--S
330 98.3001 648.999 89.3200 0.000 0.000 7.000 S
SS,OP246,FP331,AR98.33380,ZE89.32020,SD648.9887,--S
331 98.3338 648.989 89.3202 0.000 0.000 7.000 S
SS,OP246,FP332,AR98.18210,ZE89.30270,SD606.4488,--S
332 98.1821 606.449 89.3027 0.000 0.000 7.000 S
SS,OP246,FP333,AR98.07200,ZE89.31170,SD582.3188,--S
333 98.0720 582.319 89.3117 0.000 0.000 7.000 S
SS,OP246,FP334,AR98.10280,ZE89.32270,SD582.0188,--S
334 98.1028 582.019 89.3227 0.000 0.000 7.000 S
SS,OP246,FP335,AR98.02240,ZE89.33230,SD563.7189,--S
335 98.0224 563.719 89.3323 0.000 0.000 7.000 S
SS,OP246,FP336,AR97.54560,ZE89.31220,SD563.8289,--S
336 97.5456 563.829 89.3122 0.000 0.000 7.000 S
SS,OP246,FP337,AR97.39130,ZE89.32250,SD539.3589,--S
337 97.3913 539.359 89.3225 0.000 0.000 7.000 S
SS,OP246,FP338,AR97.47470,ZE89.34210,SD539.3989,--S
338 97.4747 539.399 89.3421 0.000 0.000 7.000 S
SS,OP246,FP339,AR97.30390,ZE89.34310,SD516.6990,--S
339 97.3039 516.699 89.3431 0.000 0.000 7.000 S
SS,OP246,FP340,AR97.21480,ZE89.31520,SD516.5490,--S
340 97.2148 516.549 89.3152 0.000 0.000 7.000 S
SS,OP246,FP341,AR96.32550,ZE89.29160,SD469.5491,--S
341 96.3255 469.549 89.2916 0.000 0.000 7.000 S
SS,OP246,FP342,AR96.44350,ZE89.31570,SD469.2691,--S
342 96.4435 469.269 89.3157 0.000 0.000 7.000 S
SS,OP246,FP343,AR96.05050,ZE89.31140,SD440.6691,--S
343 96.0505 440.669 89.3114 0.000 0.000 7.000 S
SS,OP246,FP344,AR95.57210,ZE89.28270,SD440.7691,--S

344 95.5721 440.769 89.2827 0.000 0.000 7.000 S
SS,OP246,FP345,AR94.57160,ZE89.27550,SD404.1092,--S
345 94.5716 404.109 89.2755 0.000 0.000 7.000 S
SS,OP246,FP346,AR95.05510,ZE89.29490,SD403.8492,--S
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346 95.0551 403.849 89.2949 0.000 0.000 7.000 S
SS,OP246,FP347,AR94.33300,ZE89.27020,SD386.2392,--S
347 94.3330 386.239 89.2702 0.000 0.000 7.000 S
SS,OP246,FP348,AR94.26140,ZE89.24400,SD386.5392,--S
348 94.2614 386.539 89.2440 0.000 0.000 7.000 S
SS,OP246,FP349,AR93.17120,ZE89.20280,SD354.1993,--S
349 93.1712 354.199 89.2028 0.000 0.000 7.000 S
SS,OP246,FP350,AR93.24410,ZE89.22350,SD353.9993,--S
350 93.2441 353.999 89.2235 0.000 0.000 7.000 S
SS,OP246,FP351,AR92.18200,ZE89.17100,SD327.9093,--S
351 92.1820 327.909 89.1710 0.000 0.000 7.000 S
SS,OP246,FP352,AR92.10310,ZE89.15060,SD327.9693,--S
352 92.1031 327.969 89.1506 0.000 0.000 7.000 S
SS,OP246,FP353,AR91.02350,ZE89.07360,SD307.5494,--S
353 91.0235 307.549 89.0736 0.000 0.000 7.000 S
SS,OP246,FP354,AR91.08190,ZE89.09180,SD307.4194,--S
354 91.0819 307.419 89.0918 0.000 0.000 7.000 S
SS,OP246,FP355,AR90.00210,ZE89.01520,SD287.2994,--S
355 90.0021 287.299 89.0152 0.000 0.000 7.000 S
SS,OP246,FP356,AR89.50440,ZE89.00560,SD287.4394,--S
356 89.5044 287.439 89.0056 0.000 0.000 7.000 S
SS,OP246,FP357,AR87.33500,ZE88.41570,SD256.6095,--S
357 87.3350 256.610 88.4157 0.000 0.000 7.000 S
SS,OP246,FP358,AR87.44530,ZE88.46010,SD256.3095,--S
358 87.4453 256.310 88.4601 0.000 0.000 7.000 S
SS,OP246,FP359,AR86.10570,ZE88.33460,SD239.9695,--S
359 86.1057 239.970 88.3346 0.000 0.000 7.000 S
SS,OP246,FP360,AR85.59550,ZE88.30430,SD240.2195,--S
360 85.5955 240.220 88.3043 0.000 0.000 7.000 S
SS,OP246,FP361,AR84.29010,ZE88.20010,SD226.3195,--S
361 84.2901 226.320 88.2001 0.000 0.000 7.000 S
SS,OP246,FP362,AR84.40080,ZE88.22320,SD225.9495,--S
362 84.4008 225.950 88.2232 0.000 0.000 7.000 S
SS,OP246,FP363,AR82.04290,ZE87.56420,SD207.6796,--S
363 82.0429 207.680 87.5642 0.000 0.000 7.000 S
SS,OP246,FP364,AR81.54160,ZE87.55110,SD207.7296,--S
364 81.5416 207.730 87.5511 0.000 0.000 7.000 S
SS,OP246,FP365,AR80.18570,ZE87.43450,SD197.2496,--S
365 80.1857 197.250 87.4345 0.000 0.000 7.000 S
SS,OP246,FP366,AR77.24220,ZE87.21080,SD182.4396,--S
366 77.2422 182.440 87.2108 0.000 0.000 7.000 S
SS,OP246,FP367,AR76.34390,ZE87.16330,SD179.5496,--S
367 76.3439 179.550 87.1633 0.000 0.000 7.000 S
SS,OP246,FP368,AR291.25320,ZE87.52380,SD452.0391,--RMDN
368 291.2532 452.039 87.5238 0.000 0.000 7.000 RMDN
--Evidence Recorder v 9.0.3.5 (2012-11-02)
--Evidence Recorder v 9.0.3.5 (2012-11-02)

JB,NM14-0222F027-1,DT02-22-2014,TM19:09:46

MO,AD0,UN2,SF1.000000,EC0,EO0.0,AU0

--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX

--Instrument Selected: Type=Total Station,Profile=RC-PR3,Model=SRX