

Pedestrian Crashes in Columbia



Sgt. Curtis Perkins
Columbia Police Dept.

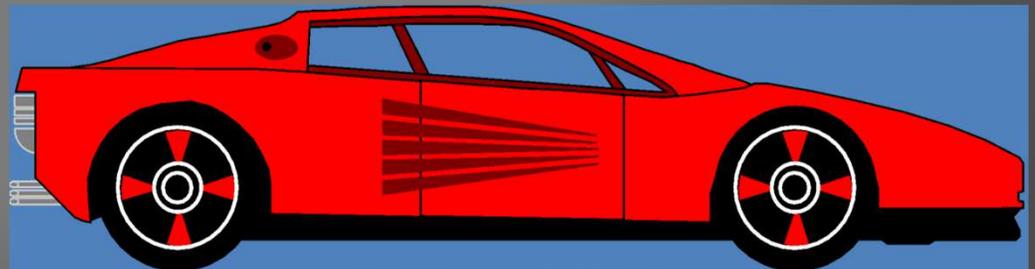
All Crashes in Columbia



Year	Fatal/Total Deaths	Injury/Total Injured	Property Damage	Total
2015 (as of 6/9/15)	3F / 4D	183/245	317	504
2014	7F / 9D	405/564	851	1,265
2013	6F / 6D	441/603	851	1,298
2012	5F / 5D	517/699	833	1,355
2011	3F / 5D	460/648	897	1,362
2010	2F / 2D	531/763	1,073	1,606
2009	10F /10D	589/826	2,273	2,872
2008	6F / 6D	445/651	2,628	3,079
2007	8F /8D	518/742	2,844	3,370
2006	13F / 14D	534/745	3,026	3,574
2005	7F /7D	474/675	3,190	3,671
2004	7F / 11D	534/759	3,282	3,827
2003	15F / 18D	538/732	3,132	3,688
Totals	92F / 105	6169/8652	25,197	31,471

Crash Trends in All Fatalities in Columbia

Year	Impaired Driver Involved	Speeding
2015 (as of 6/9/15)	66%	33%
2014	57%	57%
2013	50%	66%
2012	40%	20%





NW04

CRASHES BY PROBABLE CONTRIBUTING CIRCUMSTANCES

Date Range: 1/1/2012 - 06/09/2015
 Location: ALL

Private Property: Included

Probable Contributing Circumstances: ALL

Number of Crashes: 4,426
 Number of Vehicles: 8,598

Value	# Vehicles	Percent of All Circumstances*	Percent of All Vehicles**
Vehicle Defects	83	1.623 %	0.963 %
Improperly stopped on Roadway	17	0.332 %	0.197 %
Speed - Exceeded Limit	117	2.288 %	1.358 %
Too Fast for Conditions	406	7.939 %	4.711 %
Improper Passing	56	1.095 %	0.650 %
Violation Signal / Sign	257	5.025 %	2.982 %
Wrong Side (not passing)	49	0.958 %	0.569 %
Following Too Close	567	11.087 %	6.579 %
Improper Signal	6	0.117 %	0.070 %
Improper Backing	67	1.310 %	0.777 %
Improper Turn	136	2.659 %	1.578 %
Improper Lane Usage / Change	216	4.224 %	1.578 %
Wrong Way (One-way)	9	0.176 %	0.104 %
Improper Start from Park	10	0.196 %	0.116 %
Improperly Parked	8	0.156 %	0.093 %
Failed to Yield	897	17.540 %	10.408 %
Alcohol	323	6.316 %	3.748 %
Drugs	40	0.782 %	0.464 %
Physical Impairment	44	0.860 %	0.511 %
Inattention ***	711	13.903 %	8.250 %
None	4,152	N/A	48.178 %
Vision Obstructed	181	3.540 %	2.100 %
Driver Fatigue /Asleep	54	1.060 %	0.630 %
Failed to Dim Lights	1	0.020 %	0.010 %
Failed to Use Lights	9	0.180 %	0.100 %
Improper Towing / Pushing	2	0.040 %	0.020 %
Overcorrected	109	2.130 %	1.260 %
Improper Riding / Clinging to Vehicle Exterior	5	0.100 %	0.060 %
Failed to Secure Load / Improper Loading	9	0.180 %	0.100 %
Animal(s) in Roadway	29	0.570 %	0.340 %
Object / Obstruction in Roadway	39	0.760 %	0.450 %
Other	212	4.150 %	3.630 %
Unknown	445	8.700 %	2.460 %
Total	9,266	100.000%	

* Percent of All Circumstance is calculated WITHOUT the value of "NONE" included.

** Sum of entire column will not total 100% due to the possibility of having more than one Circumstance per vehicle.

Pedestrian Involved Crashes

Year	Fatal	Injury	Property Damage	Total
2015	1*	9	1	11
2014	2	19	1	22
2013	0	22	5	27
2012	0	24	4	28
2011	2	19	2	23
2010	0	26	11	37
2009	1	16	2	19
2008	0	14	10	24
2007	0	25	4	29
2006	2	18	6	26
2005	0	22	9	31
2004	2	18	4	24
2003	1	24	1	26
Totals	11	256	60	327

Action	Number	Percent
Behind/Front of Parked Vehicle	17	19%
With Traffic	6	7%
Against Traffic	9	10%
Getting in/out of vehicle	1	1%
Standing/sitting/lying in road	3	3%
Pushing/working on vehicle	1	1%
Working in Traffic way	1	1%
Playing in Traffic way	5	6%
Walking/Running in Traffic way	34	38%
Other	10	11%
Unknown	4	4%
Total	90	100%

Pedestrian Age Trends

2012-June 2015

Age	Number	Percent
1-15	14	13%
16-20	15	14%
21-25	17	16%
26-30	8	8%
31-40	19	18%
41-50	11	10%
51-60	12	11%
61-70	6	6%
Over 71	4	4%
Total	106	100%

Pedestrian Crash Roadway Types

Roadway Area	Number of Crashes	Percent of Crashes
Downtown	17	20%
Residential	12	14%
State Highway Designation	39	45%
Private Drive/Property	15	17%
Total	87	100%

COLUMBIA

6/9/2015

CRASHES BY MONTH

Date Range: 1/1/2012-6/9/2015
Location: ALL

Private Property: Included

Month	Number of Crashes	Percentage
January	13	14.77%
February	4	4.55%
March	4	4.55%
April	9	10.23%
May	6	6.82%
June	7	7.95%
July	6	6.82%
August	7	7.95%
September	5	5.68%
October	14	15.91%
November	5	5.68%
December	8	9.09%
Total	88	100.00%

COLUMBIA

6/9/2015

CRASHES BY DAY OF WEEK AND TIME OF DAY

Date Range: 1/1/2012 - 6/9/2015

Private Property: Included

Time Range: 0000 - 2359

Days of Week: ALL

Location: ALL

Time	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Unk Day	Total	%
0000 - 0059	0	1	0	0	0	0	0	0	1	1.14%
0100 - 0159	1	0	0	0	1	0	0	0	2	2.27%
0200 - 0259	0	0	0	0	0	0	0	0	0	0.00%
0300 - 0359	0	0	0	0	1	0	0	0	1	1.14%
0400 - 0459	0	0	0	0	0	0	0	0	0	0.00%
0500 - 0559	0	0	0	0	0	0	0	0	0	0.00%
0600 - 0659	1	0	1	0	0	0	0	0	2	2.27%
0700 - 0759	0	1	0	0	1	0	0	0	2	2.27%
0800 - 0859	0	0	0	2	1	0	0	0	3	3.41%
0900 - 0959	0	0	0	0	2	0	0	0	2	2.27%
1000 - 1059	0	0	1	0	0	2	0	0	3	3.41%
1100 - 1159	0	2	1	2	0	0	2	0	7	7.95%
1200 - 1259	1	2	1	2	2	1	0	0	9	10.23%
1300 - 1359	1	0	1	1	0	0	0	0	3	3.41%
1400 - 1459	0	0	2	0	1	1	1	0	5	5.68%
1500 - 1559	1	4	0	1	2	0	0	0	8	9.09%
1600 - 1659	1	0	1	1	1	1	1	0	6	6.82%
1700 - 1759	1	3	0	0	1	2	0	0	7	7.95%
1800 - 1859	2	2	1	2	4	0	2	0	13	14.77%
1900 - 1959	0	0	1	0	3	0	0	0	4	4.55%
2000 - 2059	1	1	0	0	1	1	0	0	4	4.55%
2100 - 2159	1	0	0	1	0	2	1	0	5	5.68%
2200 - 2259	0	0	0	0	0	0	1	0	1	1.14%
2300 - 2359	0	0	0	0	0	0	0	0	0	0.00%
Unk Time	0	0	0	0	0	0	0	0	0	0.00%
Total	11	16	10	12	21	10	8	0	88	
Percent	12.50%	18.18%	11.36%	13.64%	23.86%	11.36%	9.09%	0.00%		100.00%

Driver Contributing Circumstances in Pedestrian Crashes

Type	Number	Percent of Crashes
Contributing circumstance listed for driver	44	51%
None marked for driver	42	49%
Total	86	100%

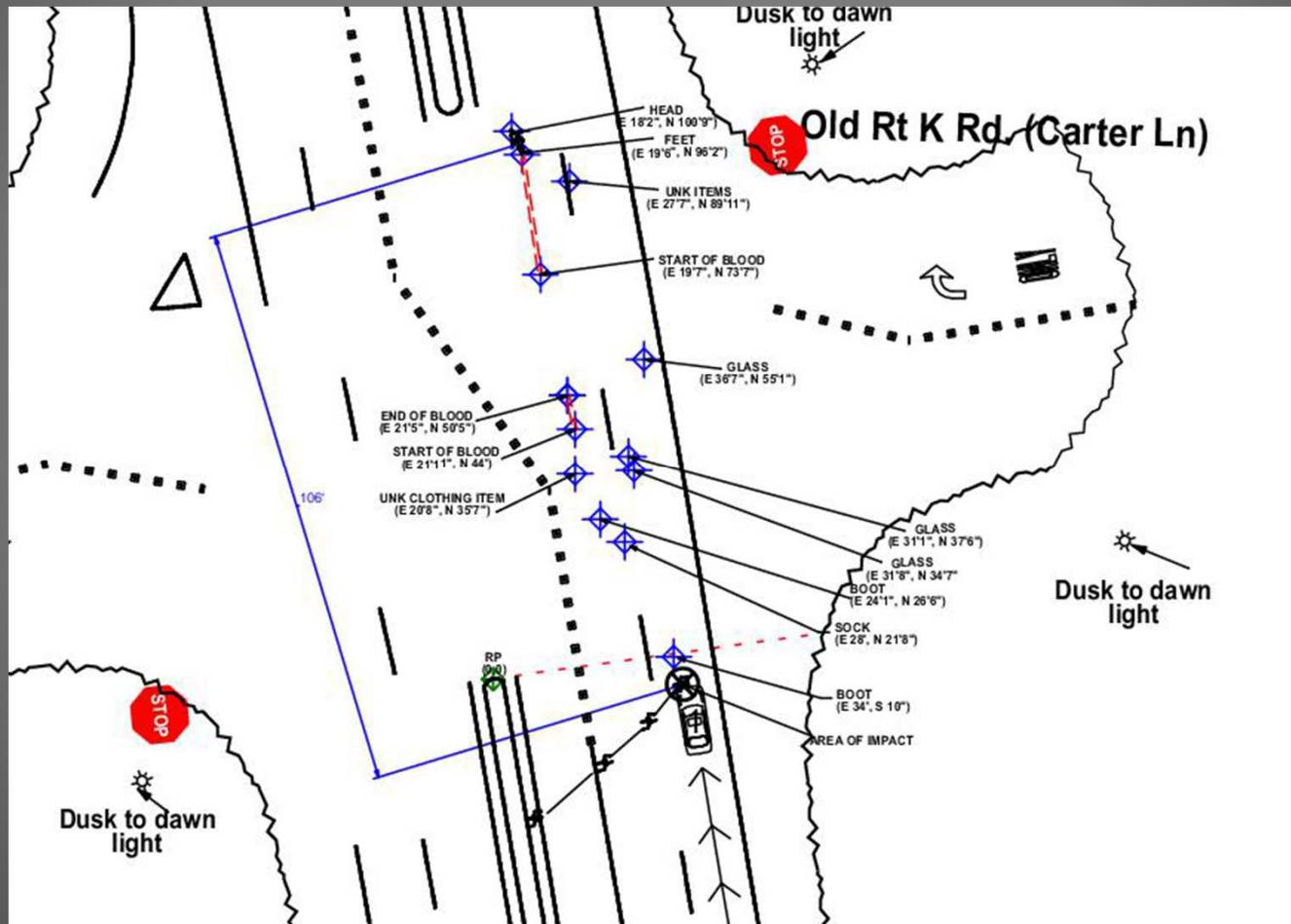
Fatal – Providence/Old Rt K

01/22/15

- College student gets off city bus on west side of roadway at bus stop
- Attempts to cross roadway going east
- Pedestrian struck by northbound vehicle



Providence/Old Rt K



Contributing Circumstances

- Driver did not see pedestrian crossing in time
- No designated crossing area
- Driver not impaired, not speeding
- Stop light @ Green Meadows within walking distance
- Pedestrian new to Columbia
- Pedestrian may have had condition causing issues at night with light

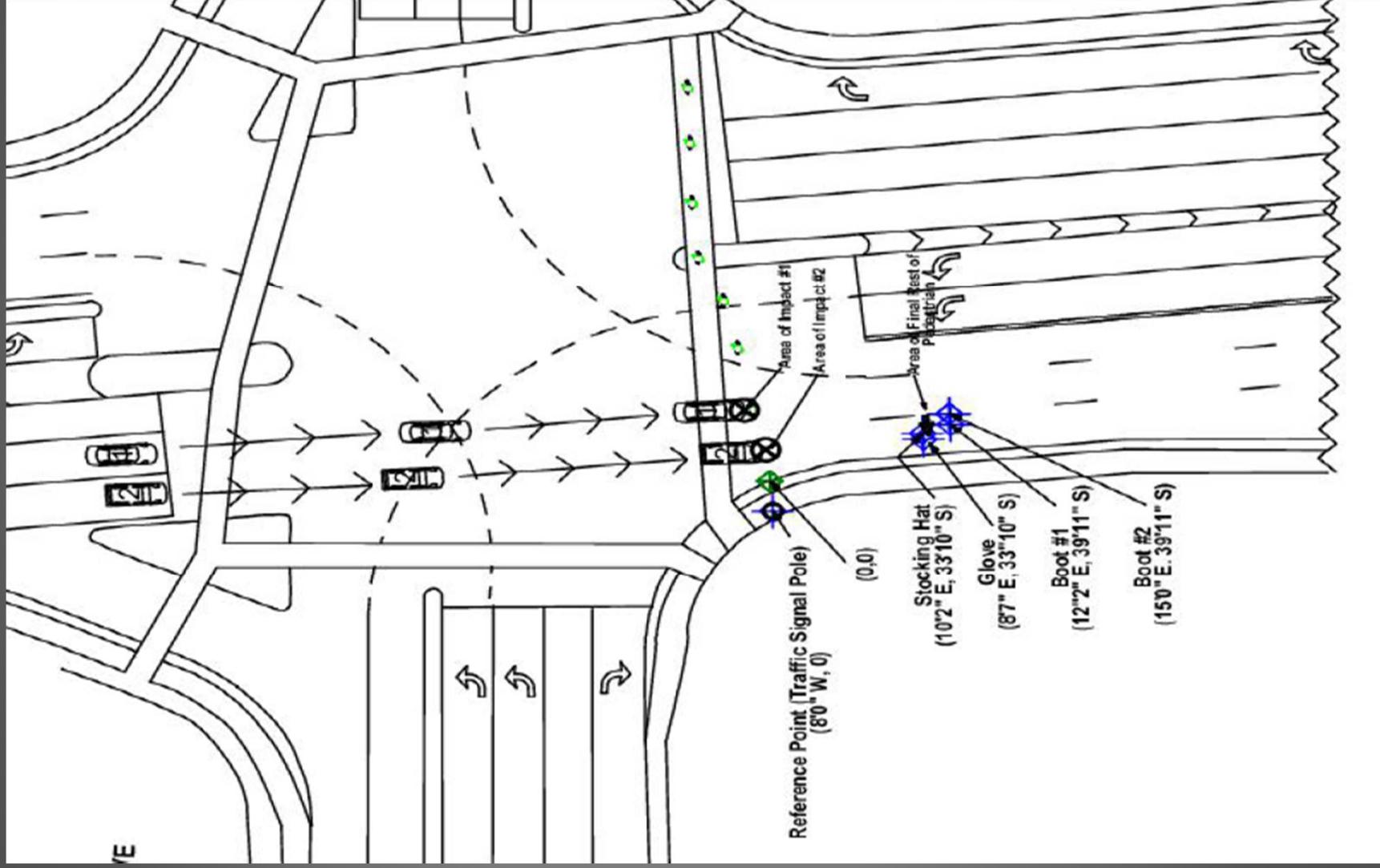


Stadium/Worley

12/31/14

- Pedestrian crossing Stadium from east to west
- Struck by southbound vehicle
- Nighttime hours





Stadium/Worley

- Pedestrian not using crosswalk, was south of intersection
- Crosswalk was not reacting to push button to signal light change
- Pedestrian in crosswalk could have stopped in middle as intersection designed
- Driver not impaired, not speeding
- Driver did not see pedestrian crossing

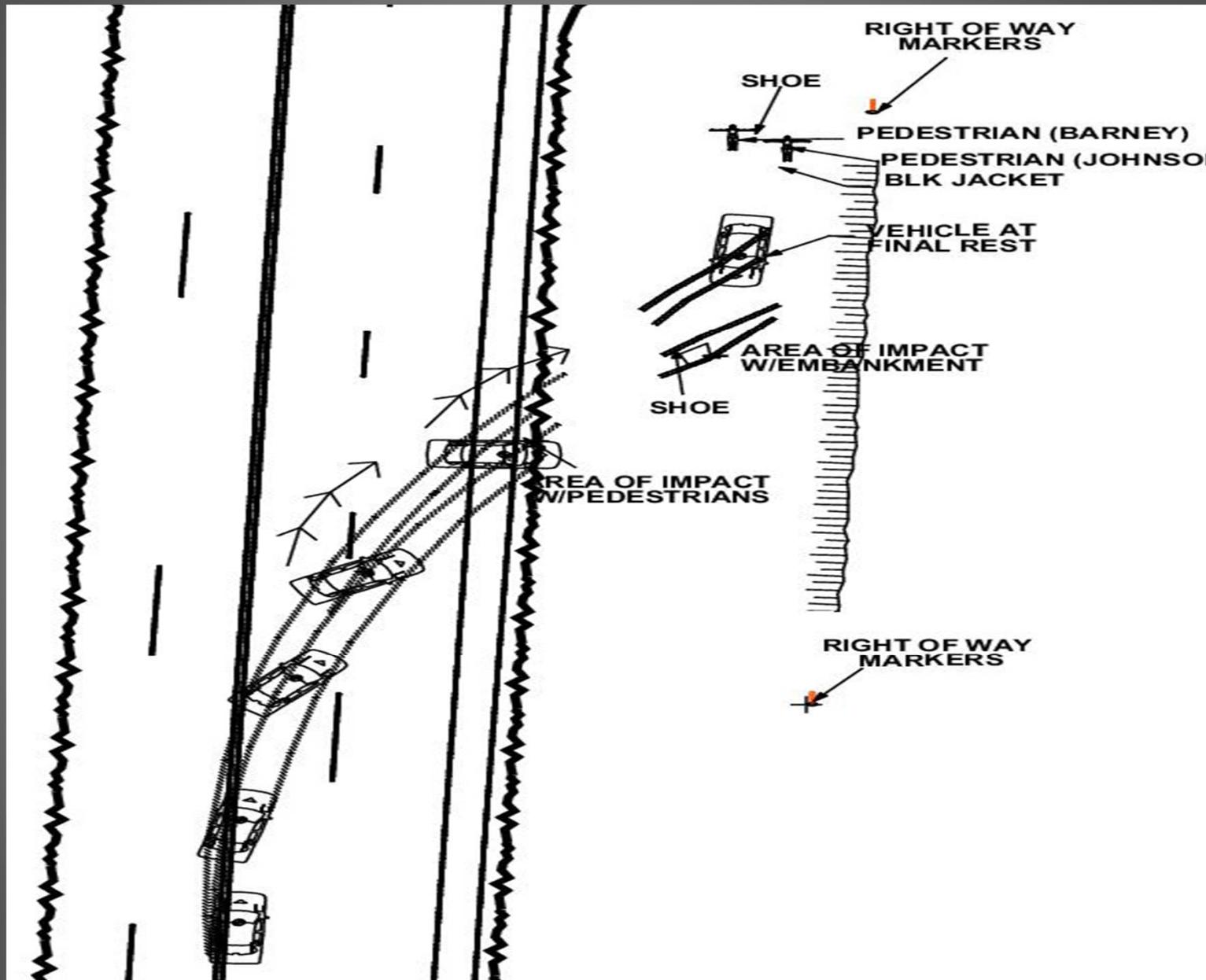
Range Line/Elleta

10/13/14

- Pedestrians walking on east side of roadway on shoulder
- Roadway wet
- Vehicle traveling north on Range Line
- Driver lost control and struck pedestrians

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Range Line/Elleta

- Driver claimed another vehicle in her lane and she swerved to avoid
- Investigation revealed too fast for conditions
- Driver charged with careless & imprudent driving
- 1 fatality, 1 pedestrian seriously injured

Crashes since Oct 2014

- 10/02/14 – Providence/Rollins
 - Vehicle making right turn (east on Rollins, going north on Providence)
 - Pedestrian crossing road walking east
 - Pedestrian reported traffic signal not working
- 10/15/14 – Cherry/Seventh
 - Vehicle backing into parking place
 - Pedestrian stepped off curb into path of vehicle



October 2014

- 10/20/14 – Paris/Hathman
 - Incorrectly listed as pedestrian, was a bike crash
 - Bike rider was intoxicated
- 10/25/14 - Stadium/Aaron
 - 4-5 people walking along edge of Stadium after party ended
 - Pedestrian struck by vehicle
 - Report notes no sidewalk and low lighting
 - Minor injuries

2014 Crashes

- 12/18/14 – Boone Hospital parking garage
 - Vehicle pulling into lot
 - Pedestrian using cell phone
 - Minor injuries
- 12/24/14 – Walgreens (222 E. Broadway)
 - Vehicle backing up as pedestrian crossed behind vehicle



Jan 2015 Pedestrian Crashes

- 01/02/15 – Tenth/Broadway
 - Pedestrian left car crossing street & struck by car turning from alley
 - Minor injuries
- 01/13/15 – Walnut/Anita
 - Wheelchair crossing @ intersection, driver didn't see wheelchair
- 01/22/15 – Providence/Nifong
 - Pedestrian ran across road going west not waiting for light or pressing button, struck by southbound vehicle
 - Serious injuries, transported, treated and released



2015 Pedestrian Crashes

- 02/24/15 – Rt PP/Rice Rd
 - Pedestrian crossing road going west, struck by vehicle
 - Serious injuries, transported by ambulance
- 03/08/15 – Stadium/I-70 (diverging diamond)
 - Pedestrian crossing roadway not at crosswalk
 - Struck by vehicle
 - Minor injuries

2015 Pedestrian Crashes

- 04/10/15 – Broadway/Waugh
 - Pedestrian crossing in crosswalk, yellow flashing lights activated
 - Driver distracted (looking at GPS)
 - Minor injuries
- 04/13/15 – Private Drive of Residence
 - Child fell, run over by vehicle in driveway

2015 Pedestrian crashes

- 4/23/15 – I-70/Providence
 - Originally classified as fatal crash
 - Changed due to classification of death (suicide)
 - Now listed as property damage class crash
- 4/24/15 – Private Drive of Residence
 - Driver got out of vehicle, vehicle brake was released and vehicle struck driver
 - Transported to hospital



2015 Pedestrian Crashes

- 5/10/15 – Providence/Park
 - Not at crosswalk
 - 12-year-old went out into traffic and clipped by vehicle
 - Minor injury
- 05/22/15 – Bourn Ave – Private residence
 - Driver suffered medical condition and went through yards, striking neighbor in garage



MUPD Crashes

<u>Date</u>	<u>Time</u>	<u>Location</u>	<u>Circumstances</u>	<u>Injury Information</u>
11/5/2014	11:50a m	CST SIXTH ST / CST ELM ST	Driver Failed to Yield to Ped. In Crosswalk	Minor Injuries Not Transported
11/19/2014	4:02pm	Monk Drive / Hospital Dr.	Driver Failed to Yield to Ped. In Crosswalk	Minor Injuries Transported
12/5/2014	5:05pm	University / Hitt St.	Driver Failed to Yield to Ped. In Crosswalk	Minor Injuries Transported
1/22/2015	9:12am	College Ave/ Rollins St.	Driver Failed to Yield to Ped. In Crosswalk	Minor Injuries Transported
2/8/2015	3:42pm	9th / University Ave	Driver Failed to Yield to Ped. In Crosswalk	Minor Injuries Transported
2/24/2015	10:25a m	College Ave/ Rollins St.	Driver Failed to Yield to Ped. In Crosswalk	Minor Injuries Not Transported
3/31/2015	10:33a m	Kentucky Blvd / Richmond Ave	Ped. Failed to Yield to MV	Significant Injuries Transported
6/9/2015	1:40am	Elm St / 10th St	Driver Failed to Yield to Ped. In Crosswalk	Significant Injuries Transported

Other Fatal Pedestrian Crashes

- 2004 to 2014
- 2011 = 2
- 2009 = 1
- 2006 = 2
- 2004 = 2

2011

- 07/14/11 @ I-70/63 C
 - Westbound
 - 2 peds along road, car trouble
 - Struck by intoxicated driver

2011

- 11/12/11 @ Rt TT (Scott) & Christian Fellowship
 - Pedestrian crossing Scott going north
 - Motorcycle going west
 - Motorcycle rider impaired

2009

- 03/29/09 @ Clark Ln/Lambeth
 - Pedestrian walking dog, slipped and fell
 - Struck by westbound vehicle on Clark L
 - Vehicle happened to be CPD police vehicle

2006

- 11/06/06 @ Hwy 63/AC
 - Pedestrian crossing roadway going west
 - Vehicle northbound on Hwy 63
 - Pedestrian impaired

2006

- 10/28/06 @ Nifong/Barrington
 - Vehicle westbound on Nifong
 - Pedestrian walking west on Nifong in roadway
 - Both driver & pedestrian were intoxicated

2004

- 03/07/04 @ Hwy 63/AC

- Pedestrian walking w/back to traffic
- Vehicle was going northbound on Hwy 63
- Unknown why pedestrian was in roadway

12/11/04 @ I-70 West near 126

- Pedestrian walking south crossing I-70
- Vehicle was going westbound on I-70

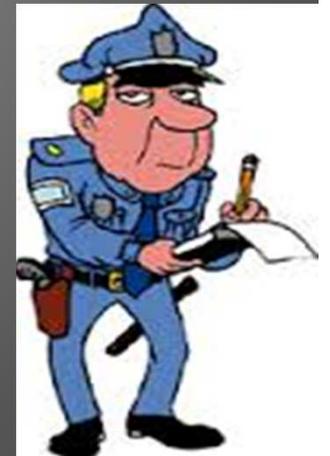
Keys to Traffic Issues

- Enforcement
- Engineering
- Education



Enforcement

- Enforcement works because people don't want to pay money or suffer consequences
- Goal is voluntary compliance
- Behavior doesn't change because beliefs or attitudes have changed (less likely to have long-term impact)



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Engineering

- Road design & improvements
- Treats the symptom, not the problem
- How do you engineer for a texting driver?
- Can't engineer sustained behavior change



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Education

- Required for long-term success
- Only works if we change attitudes, beliefs, morals and societal attitudes
- The loss of life is not enough to change these.



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All 3 Work Together in Traffic Safety



NHTSA Countermeasures

- Young Children
 - Education
 - Parent supervision
 - Safe routes to school
 - Child school bus training
- Impaired Pedestrians
 - Education & outreach programs
 - Sweeper patrols
 - Getting intoxicated people home or to detox center



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NHTSA Countermeasures

- Pedestrian Safety Zones
 - Target specific area with limited resources
 - Uses education, enforcement, & engineering
- Reduce & Enforce Speed Limits
- Conspicuity Enhancement
 - Reflective bands, vests, etc.



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NHTSA Countermeasures

- Targeted Enforcement
 - Both drivers and pedestrians
 - Lots of publicity
- Driver Training
 - Share the road training
 - Increase sensitivity
- Pedestrian Gap Training
 - Help pedestrians make better decisions
 - Judge distances & reduce human error



NHTSA Pedestrian Enforcement Case Studies

- Bethlehem, PA – Pedestrian Safety Enforcement
- Hawaii - Walk Wise Hawaii
- New Jersey – Cops in Crosswalk
- Orlando, FL – Best Foot Forward for Pedestrian Safety
- San Francisco, CA – Pedestrian Safety Enforcement Operations
- Washington, DC – Pedestrian Program

- Source: Pedestrian Safety Operations: A How to Guide, Nov 2014, NHTSA



U.S. Department of Transportation
**National Highway Traffic Safety
Administration**

General Pedestrian Information

- Average walking speed is 3.1 mph (4.55 fps)
- Jogging speed is 5 to 6 mph
- Typical lane width is 12 ft.
- Takes approximately 3.87 seconds per lane



Columbia Police

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