CondenseIt[™] WILLIAM T. JACKMAN **DECEMBER 10, 1997** Page 3 Page : IN THE COURT OF CLAIMS OF OHIO 1 EXHIBITS 1 2 PORTAGE COUNTY, OHIO 2 _ _ _ . . **.** 3 3 4 4 **EXHIBITS** DESCRIPTION MARKED JASON WOLGAMOTT, et al., 5 Plaintiffs, 5 Jackman A deposition duces tecum 4 6 Jackman B accident report 30 vs б 7 Jackman C 7 analysis/evaluation report E.R. TRUCKING, INC., et al., 40 8 Jackman D 78 curves and radiuses Defendants () No. 97-03611-PR 8 9 Third-Party Plaintiffs, 9 Jackman E drawn diagram 80 10 ¥9. Mr. Jackman's resume Jackman F 10 110 11 ODOT, et al., 11 12 Third-Party Defendants.) 12 13 ------13 14 14 15 Deposition of WILLIAM T. JACKMAN, a Witness herein, 15 16 called by the Third-Party Defendants for 16 17 cross-examination pursuant to the Rules of Civil 17 18 Procedure, taken before me, the undersigned, Melissa 18 19 Karm, a Stenographic Reporter and Notary Public in and 19 20 for the State of Ohio, at the offices of Black, McCuskey, 20 21 Souers & Arbaugh, 1000 United Bank Building, 220 Market 21 22 Avenue South, Canton, Ohio, at 8:59, a.m., on Wednesday, 22 23 the 10th day of December, 1997. 23 24 24 25 - - -25 Page 4 Page 2 1 APPEARANCES : 1 WILLIAM T. JACKMAN 2 2 of lawful age, a Witness herein, having been first duly з On behalf of the Plaintiffs: 3 sworn as hereinafter certified, deposed and testified as 4 Young & McDowall 4 follows: 5 5 CROSS-EXAMINATION 6 Debera Talkington, Paralegal sitting in for By: By Mr. Bachmann: 6 Dean A. Young, Attorney at Law 507 Canton Road Akron, Ohio 44312 7 Q Would you state your full name for the record, sir. 8 8 A William T. Jackman. 9 9 Q And what is your address? On behalf of the Defendant & Third-Party Plaintiffs: 10 10 A Westlake, Ohio. 11 Black, McCuskey, Souers & Arbaugh Q Is it 1500 Mozart Drive? 11 12 Robert E. Soles, Attorney at Law 12 A Yes. By: Gust Callas, Attorney at Law 1000 United Bank Plaza Canton, Ohio 44702 13 Q What county is that in? 13 14 14 A Cuyahoga County. 15 15 (Thereupon, Jackman Exhibit A was marked for 16 On behalf of the Third-Party Defendants: 16 purposes of identification.) 17 Ohio Attorney General's Office 17 By Mr. Bachmann: 18 Q Mr. Jackman, I'm handing you what has been marked as 18 19 Greeg H. Bachmann, Assistant Attorney General By: 65 East State Street Suite 1630 Jackman Exhibit A. That's a copy of a notice of 19 20 Columbus, Ohio 43215 20 deposition duces tecum. 21 21 Have you ever seen a copy of that before? 22 22 A Yes. 23 23 Q Attached to that is a list. If you'll look on the 24 second page, it's requesting lots of things, Items A 24 25 25 through H.

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CondenseIt[™] WILLIAM T. JACKMAN **DECEMBER 10, 1997** Page 7 Page 5 is that I have asked or you feel that I have Did you bring those items with you today, sir? I 1 mischaracterized something, perhaps something that you 2 A Some I did. 2 have said or a piece of information that's contained in 3 O What did you not bring with you? 3 the materials that you have looked at or you want me to A There is no contract that I have with this firm. 4 4 repeat or rephrase the question, please ask me to do so. 5 Q Okay. 5 A Okay. 6 · What else did you not bring? 6 Q So you know you have got to respond verbally as A That's it. 7 7 opposed to a nod or a shake of the head. 8 O Who is your contract with? 8 A I hate to disappoint you. I don't have a contract. 9 A Yes. 9 Q What is the fee arrangement that you have with 10 O Do you have an agreement? 10 Mr. Callas and Mr. Soles? 11 A Verbal. 11 A It's on an hourly basis. 12 O Tell me what your agreement is. 12 Q What is that arrangement? 13 A I don't understand what you are asking me. 13 A Because of when they brought me into it, it was Q Well how did you find out about this case, sir? 14 14 under the old fee schedule. It was \$120 an hour. 15 A I was contacted by them. 15 Q That's the fee you are charging throughout the case? 16 Q By whom? 16 A I think Mr. Soles, but I'm not sure. It could have 17 A For them, yes. 17 Q What are you charging them to testify at trial? 18 been Mr. Callas. 18 A That's \$1,000 for an eight hour day. Q What were you told when you were contacted? 19 19 Q What is your fee for deposition testimony? A A very brief description of the accident and they 20 20 A I don't charge them. You have to pay. asked if I could be of assistance to them in evaluating 21 21 Q What is your fee for deposition testimony? 22 the roadway. 22 A \$700. Q What was the accident that was described to you? 23 23 O Flat rate? A I was told that there were a number of vehicles 24 24 A Yes, for up to four hours. I was told that you stopped at a grade crossing and a truck coming down the 25 25 Page 8 Page 6 received a copy of the hour policy. grade through a series of curves was unable to stop, was 1 1 O Okay. 2 involved in a rear-end collision. 2 What happens after four hours? 3 O What were you asked to do? 3 A Did you not receive that, sir? A Look at materials that became available and make a 4 4 O Well, Mr. Jackman, I'm not here to answer your determination as to whether or not the roadway itself 5 5 questions. I'll be asking the questions. played a role in the occurrence of the accident. 6 6 A It has to do with my fee and you're committed. 7 Q Were you asked anything more specific about the 7 roadway or did they say they wanted you to look at this 8 That's why I'm asking. 8 Q Just keep that here. We'll make a copy. 9 particular aspect of the roadway? 9 A I am going to want it back. Sure we can leave it A No. They said, "You're the expert." 10 10 there. I apologize. Q So they asked you to make a determination as to 11 11 MR. CALLAS: Off the record. 12 12 whether the roadway played a role in the accident? (Thereupon, a discussion was held off the 13 13 A Correct. 14 record.) 14 Q Before I go any further, I guess there are some 15 By Mr. Bachmann: preliminaries here. You have had your deposition taken 15 Q When were you first contacted by these gentlemen? 16 16 before? A The materials I first received were the beginning of 17 17 A Yes. January of this year -- beginning of February of this 18 18 O How many times have you been deposed? year. Oh, prior to that there was a telephone call, but 19 A Guesstimate of 350. 19 I never kept track of when that was. It's been a long 20 Q So you know the ground rules and what this process 20 time, but if memory serves me I think the materials came 21 is all about probably better than most, right? 21 within a week or so after I talked to them, but I'm not 22 A I've been through it 350 plus or minus times, so if 22 sure about that. It would have been sometime at the end 23 23 you want to change the rules just tell me. of January or the beginning of February when the phone 24 Q Well let me tell you what my general procedure is. 24 call occurred. Then the materials, as I said, arrived on 25 If I ask you a question and you don't understand what it 25

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	Page 9	2	Page
1	the 7th of February, the first materials.	1	Q Where on the road did you measure it? Tell me what
2	Q In the course of your I guess I'll call it	2	you measured.
3	investigation of the accident. Is that a fair term,	3	A We determined we measured the two curves. We
4	investigation?	4	measured distance along the road using the we measure
5	A lt's as good as any.	5	distances along the road going from just south of the
6	Q Did you have occasion to talk to Mr. Ruegg?	6	Conrail tracks to almost Orrville Street.
7	A No, sir.	7	Q Okay.
8	Q You never talked to him?	8	Do you have a diagram there of what you
9	A No, sir.	9	A Of course I do.
10	Q Who did you talk to other than Mr. Callas and	10	Q May I see it.
11	Mr. Soles?	11	You took a bunch of measurements along the road
12	A That's it.	12	measuring distances. What was the purpose of taking
13	Q You never talked to any police officers or state	13	those measurements?
14	troopers or eyewitnesses?	14	A To determine where the various devices were to be in
15	A Correct, I did not.	15	order to calculate the design speed of the curves and to,
16	Q What date did the accident occur?	16	if necessary, prepare a diagram.
ι7	THE WITNESS: Is that a 7 or an 8? That's a 7,	17	Q By devices do you mean the warning signage?
18	isn't it?	18	A Yes, traffic control devices.
19	MR. CALLAS: Yes.	19	Q You said to calculate the design speed of the curve,
20	THE WITNESS: The 12th of July of 1996.	20	the devices, and there was a third thing.
21	By Mr. Bachmann:	21	A If necessary to be able to prepare a diagram.
22	Q You have been looking at the OHI accident report?	22	Q What else did you do out there at that time?
23	A Yes. I just had a hard time making out the month.	23	A That's it, made observations.
24	Q And do you know how fast Mr. Ruegg was going?	24	Q What sort of observations?
25	A No, I don't.	25	A Observed the fact that the foliage had been cut back
	Page 1(<u>, </u>	Page
I	Q You didn't do any speed calculation or anything?		dramatically, fill had been brought in, at least on the
2	A No.	2	west side of the road near the tracks.
3	Q Before we get into detail, can you tell me kind of	3	Q Any other observations made?
4	the you talked to Mr. Callas and Mr. Soles and you	4	A Offhand that's all I can think of
5	received some materials. Can you tell me the process	5	Q What was the next did you do anything else out
6	· ·	1.2	
	That you went through	6	· · · ·
	that you went through.	6	there that day?
7	A Shortly after receiving the initial	7	there that day? A No.
7 8	A Shortly after receiving the initial materials toward the end of February we inspected the	7 8	there that day? A No. Q How long were out there?
7 8 9	A Shortly after receiving the initial materials toward the end of February we inspected the scene, took a series of measurements, made observations,	7 8 9	there that day?A No.Q How long were out there?A We arrived at 11:20 and left at approximately 12:50.
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	CEMBER 10, 1997	Condense		WILLIAM T. JACKMAN Page 15
		Page 13		nore than happy to answer that question.
	it. Why are you doing it here and not there?" The			So step one was looking at the materials that these
2	kinds of things.	2		ellows gave you, right? Let's just go through it step
3	Basically he wanted to be educated in what a			by step. Tell me what step one was.
4	reconstructionist does or at least as far as our role			A The first thing I did was to review the materials
5	this case was concerned, what we were doing. He	1		hat were sent. The next thing I did is I went out to
6	be one with us I guess.	6		hat were sole. The next using I did is I weat out to
7	Q Did he make any suggestions? "Well I want ye			All right. The next thing you did was what?
8	measure this instead of that. I want you to look at			A I made calculations as far as what the design speed
9	section of the roadway versus that section of the	9		of the curves was and the appropriateness of the various
0	roadway."	10		
1	A No.	111		signage.
2	Q Did you make any suggestions at all?	12		Obviously I used the materials that were sent to me
3	A No.	13		as an aid, for instance the accident report, the
4	Q So you made some observations, you took som			photographs. All of these things I used. I didn't just
5	measurements, and inspected the scene. Tell mey	}		sit down with a calculator and a pencil and paper.
6	happened next in the process.	16		Q Okay.
17	A Based on the material that I had, I returned to			What was the next step in the process?
8	office and made some calculations as to the design			A The next step was waiting around for things to
9	of the two curves and the appropriateness, obviou			come. I had some questions as far as what ODOT did or
20	the signage associated with it.	20		didn't do. I understand that someplace along the way
21	Q So the second step was you made calculations			ODOT was presented with a list of requests for production
22	design speed and you checked the appropriateness			of documents or interrogatories or some combination of
23	signage that was in place, correct?	23	3	the above.
24	A That was a question? I don't know about the	second 24	\$	So as time went on, certain materials came to me
25	step, but that's what we did next, yes.	25	5	from ODOT, but actually from Mr. Soles. Obviously I
		Page 14		Page 16
1	Q Is that all that was involved in that step?		ļ	reviewed those things, trying to make a determination.
2	A You have steps. What are you talking about?	What 2	2	Since so much had changed between the time of the
3	steps?	1	3	accident and when I was out there, I was trying to
4	Q Well, Mr. Jackman, let's just try to be straigh	nt l	4	determine what the characteristics of the area were as
5	with each other, okay?	1	5	far as at least the west side of the road from the
6	A Wait a minute. You set the ground rules. Yo	ou said	6	pavement edge of the road into the right-of-way. I
7	if I don't understand what you are asking, I shou		7	wanted to find out what the characteristics were and
8	you. I don't understand what you are asking.		8	things obviously having to do with vegetative growth.
9	Q Well you rendered an opinion in this case, a	written	9	Q What sort of documents were you looking for?
10	report, right?	1	0	A What I was looking for and what I got were two
11	A Yes, sir.	1	1	different things. But they needed a report, so I went
12	Q What I am trying to do is I set forth	1	2	with what I had. One of them was a photolog of the state
12	initially I just want to find out the steps that y	you 1	3	route and the first two submissions of ODOT.
14	had in the process, everything you did at certain		4	To tell you the truth, things have gotten jumbled up
15	in time that lead up to that report.		15	in the file. I have no recollection as to which specific
15	First you got some materials, then you went	out to 1	16	documents came on what days. Someplace in there I
10 17	the scene, then you went back to the office and	made some	17	prepared a scale drawing of the roadway from the railroad
	design speed calculations and the appropriateness	ss of the	18	tracks north some distance. I forget what it was
18	signage. That's what I mean by steps.		19	precisely.
19	A Okay. Well what I'm having a problem with		20	Q What was the purpose of that scale drawing?
20	took step one as our being there. You discounted		21	A Because of lacking other information, I wanted to
21			22	use it to attempt to measure across the curve to see what
22	fact that I possibly looked at the materials that	Thouse	22 23	sight distance was available once I determined what the
23	sent to me before I went out there. That's why		23 24	foliage or what the vegetative growth was like.
24	problem with steps one, two, and three.	i	24 25	Now at someplace in there, in the materials that
25	If you want to say, "What did you do next,"	i a ne	12	A STATE AND A STATE AND AND A STATE

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الرابعو والعراجية والعقب المحترية الرابعي ترويه والمرزوي

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	LLIAM T. JACKMAN Cond Page 1'	ensel	t [™] DECEMBER 10, 19 Page
1	ODOT made available, were some plans for the roadway	1	legal document.
1 2	itself that contained design information. As a result, I	2	This, I believe, is the original complaint.
	felt that the scale drawing that I prepared was		By Mr. Bachmann:
3 4	superfluous. I preferred to use the information that	-	Q The original complaint by the Wolgamott's against
4 5	ODOT made available rather than the diagram that I had	5	Eugene Ruegg and E.R. Trucking?
	prepared,	[-	A That's what it says.
6 ~~-	Q What was the next step in the process?		Q Is that in Stark County?
7- 0	· -		A Yes.
8	A I prepared the report. Q How many drafts did you make?		Q Continue please.
9	A How many drafts did I make? I write in longhand. I	10	A There's an invoice from American Sand & Gravel.
10	may have crossed out some words.	11	There are a number from Ontario Stone. There are
11	-	12	seven from Ontario Stone.
12	Q Okay.	12	
13	So the one draft you made in handwritten form became		There are four sheets entitled Daily Log of
14	the final draft in typewritten form?	14	Mr. Ruegg. There are some more. Sorry. No, those are
15	A Yes.	15	duplicates. No, they aren't. Let me stop.
16	Q If we can, let's go through your file that you	16	Q Take your time.
17	brought with you and just go through it piece by piece	17	A There are four more. So there are two sets, if you will.
18	and have you explain to me what it is you have. Some	18	
19	stuff I'm sure I have seen and some stuff I'm sure I	19	Q Two sets? They are not the same sets, they are
20	haven't seen. I know you've got a lot of material in	20	different sets?
21	here.	21	A The number had been written over. It looked like a
22	Is it in any particular order?	22	five but one is 15 and one is 16.
23	A Just this, two small stacks that are paper-clipped	23	Q Here's another set.
24	together. This. (Indicating.)	24	A Then there is a state highway patrol vehicle
25	Q Let's go through what you have just for purposes of	25	inspection report. It's several pages.
	Page 1	n	Deer
	0	ð	
1	seeing what it is that you have. Why don't you just tell	8	Q What is the date of that?
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	Page 21	t	Q Is there a title on the computer printout?
I	Q Okay.		A It says State Route 93 around railroad
2	What's the next one?		at something south of Canal Fulton.
3	A A letter from you to Mr. Callas apparently		The printing is terrible. Here, maybe you can tell
4	transmitting your answers to the first set of	4	better than I can.
5	interrogatories and requests for production.	-	Q These are all crashes it says there underneath
6	Q- Okay.		that. Is the rest of that packet computer printouts?
7	A This is a piece of paper entitled Field Notes	7	A No, the next several pages are. There's a breakdown
8	obviously done in the office. It has to do with the	8	of accidents under various categories.
9	right-of-way configuration of the section of highway in	9	This is a copy of the accident report or at least
0	question.	10	
1	Q Okay.	11	part of it. It's several accident reports.
2	A I have two drawings. These are half-size plan	12	There's a diagram.
3	sheets of the road. One shows line and grade. No, they	13	Q A diagram of the section of the roadway we're
14	both show line and grade I'm sorry from some	14	talking about?
15	distance south of the grade crossing up to and just	15	A Yes, Orrville Street down to the railroad crossing.
6	beyond Massillon/Orrville Road.	16	It's not to scale, it's just a diagram showing signage
17	Q Okay.	17	apparently in place at the time, but it says 10-89.
8	A I'd give you the page numbers, but the one is off.	18	I suppose that could mean October of '89, but I don't
19	Q That's fine.	19	know. It also says in handwritten cursive, "From Lou
20	A These are more time sheets and worksheets. Some of	20	Mata," M-a-t-a. I have no idea who that gentleman is.
21	it has to do with signage and the other is for work on	21	Q What else is in there? Is the rest just
22	the road.	22	correspondence?
23	Q Is it all about State Route 93?	23	A This section is, then there are some more of the
24	A Yes, as best as I can tell.	24	police reports and another computer printout page.
25	Q Is there a time frame?	25	Q All right. What's next in your stack there?
	Page 22		Page 24
1	A This says 7/7/96. This sheet is undated. This says	1	A Letters and interoffice correspondence.
2	6/28/96 and 7/31/95.	2	Here's a work order. Well apparently there is more
3	Q They jump around. Okay. What's next?	3	than one. There are a number of work orders and there is
4	A The next is a hodge podge. It's stapled together	4	a copy of an accident report involving Conrail tracks, a
5	and it says, "Question three."	5	newspaper article, more work orders. There's
6	Apparently this is your response to the	6	correspondence, a work order I mean work orders.
7		7	Q What's the next in your stack?
8	Township Board of Trustees from Robert Smith. Another is	8	A Interoffice communique having to do with the Route
9		9	93 fatality and it's a list of critical dates, things
10		10	that happened.
11		11	Q That's
12	The second se	12	A And another interoffice communication.
13		13	Q What is the date of that IOC on top of there?
14		14	A This one? October 31, 1996.
15		15	Q What's next in your stack?
16	They are hold to be the test of test o	16	A Xerox copies of four photographs.
17		17	Q Next?
18		18	A Work orders having to do with signage.
19		19	
20		20	A Center line log of Route 93, Page 5 of 7.
21		21	
		22	my this is a strong This has to do with
22		23	
2:		24	
24 2	•	2	
101	here is a computer printout.	14.	AT OTHER PARTY AT A THE RECOMMENDED TO THE PARTY AT A P

	LLIAM T. JACKMAN Conde	usei	
	Page 25		Page
1	account book for District No. 4, Interstate Route 77, and	1	Q Okay.
2	State Route 93.	2	Now you've got a series of your own notes and it
3	Q Okay.	3	looks like some other papers there. All your notes an
4	A This is a page out of the ODOT design manual having	4	contained on the yellow sheets there?
5 -	to do with stopping sight distance.	5	A Yes. I don't think I used any white ones. I think
6	A letter to you from well it's unsigned, but it's	6	they are all yellow.
7-	from Mr. Soles requesting things.	7	Q Other than the yellow sheets, there is one with a
8	Q All right. What's next? Another letter?	8	green paper clip. What's behind that?
9	A Yeah, from you to Mr. Soles explaining - well	9	A That's my report. It's a copy of the report.
10	you're transmitting some of the responses and you're	10	Q Underneath the other white sheets there are more
11	explaining why you don't have them all.	11	white sheets. What are those?
12	Q Okay.	12	A This is a letter to Mr. Soles and another letter to
13	A This is the photolog, the complete photolog, laser	13	Mr. Soles. There are four letters to Mr. Soles from
14	color copy.	14	yours truly.
15	Q Okay.	15	MR. BACHMANN: At this point I'd like to take
16	A This is a report from Mr. Hilbert. I'm sorry.	16	break and get Xeroxed copies of those letters and
17	Q Go ahead.	17	those yellow sheets, if we could.
18	A This is the report of Carmen Daecher,	18	(Thereupon, a recess was taken.).
19	D-a-e-c-h-e-r.	19	By Mr. Bachmann:
20	Pictures.	20	Q Mr. Jackman, while your personal notes and lette
21	Q Are they dated?	21	to Mr. Callas and Mr. Soles are xeroxed, of these
22	A 9/19/95. The first two are from the photolog. The	22	while we're dealing with these documents, let's stay
23	rest appear to be specifically taken of the roadway.	23	that subject.
24	They are not photolog pictures.	24	Can you tell me of these documents that we've g
25	Q Is there a date on them?	25	through, are these the only documents that you have
******	Page 26		Page
1	A According to this, July 22, 1996.	1	reviewed to date?
2	Q Okay. What's next?	2	A Specific to this case, yes, sir.
3	A Deposition testimony of Robert Smith, S-m-i-t-h.	3	Q Did you review all these documents in preparation of
4	Q Okay. What's next?	4	your report?
5	A Deposition testimony	5	A No, because some came after the report was prepared.
б	Q Pardon me for interrupting, but let's pull out your	6	Q Can you tell me what documents you have relied upor
7	notes too and we'll do the notes all at once.	7	in preparation for your report. I know you looked
8	A I'd like to keep these in a separate pile from this.	8	and perhaps that's a bad question.
9	Q I understand.	9	What I want to get to is the documents that you
10	A Deposition testimony of David Ray, R-a-y.	10	specifically used to come to the opinions that you
11	Deposition testimony of James Marginean,	11	arrived at.
12	M-a-t-g-i-e-a-n.	12	A I probably put the greatest weight well obviously
13	Deposition testimony of Michael Young, Y-o-u-n-g.	13	on the accident report and the photographs, the photolog,
14	Expert report I think well it's actually it's	14	and the line and grade sheets, those two sheets that I
15	a letter to Mr. Bachmann from Mr. DeFuria.	15	described as line and grade. They were half-sized
16	This is a report. It's unclear to me, at least at	16	prints. I would say I relied on that material most
17	this point in time, who it's from or to because there is	17	heavily.
18	no letter of transmittal. There is no title page and	18	Q Other than those documents let's go to those
19	there is nothing. It's my understanding that it is in	19	documents then. What I'd like for you to do is explain
20	fact well it's my understanding I don't know about		to me what you relied upon.
20 21	the fact that it was prepared by Sergeant Veppert,		A We are going to have a problem here because as I
21	V-e-p-p-e-r-t, state highway patrol, but I'm ready to	21	
22		22	review these things it becomes a body of knowledge, if
	stand corrected because there is really nothing on here	23	you will. I don't really when I sit down to write a
24	that says anything about that, at least not that I can find.	24 25	report, I don't really say, "Aha, here's the piece that goes under Line B."
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	CEMBER 10, 1997 Conde		
	Page 29		Page 31
1	I don't do that. What I do is list on my	1	Q Let me be more specific and try and help you out a
2	report and I'm assuming that they sent you a copy	2	little bit.
3	someplace along the way. I list the materials that I	3	What about the accident itself and about
4	have reviewed and relied on, to whatever extent, all of	4	Mr. Ruegg driving down that stretch of roadway to the
5	the materials listed. Anything that's not listed, I	5	point of the accident from this report do you glean that
6	haven't gotten yet.	6	helps you formulate your opinion?
7	For-instance, the depositions came after the fact.	7	A The fact that he was driving a large truck. The
8	There were other things that came after the fact. You	8	details, the accident itself, the fact that there were a
9	know that doesn't if those materials if after the	9	series of vehicles stopped at the crossing. They were
0	fact stuff had changed my opinion, then I would have had	10	waiting for a train, so there was a reason to stop. The
1	to write an addendum. They didn't necessarily change the	11	manner in which the accident happened. The reference
2	opinion. They could have reinforced the opinion, so I	12	point the troopers used well I'm sorry. It's not a
3	don't want to say that.	13	trooper, it's the township police.
4	Therefore, since I didn't have them, I am not	14	Obviously I read the materials that were included in
5	relying on them in any way when I testify, assuming I	15	here and I know that the following truck avoided being in
6	testify. Because it's all a body of knowledge, I have a	16	the accident by going left of center. I'm not sure if
7	problem. You're not the first attorney that's asked me,	17	that's contained in this report or not.
8	"What did you rely on? Show me specifically on this	18	As I said, this material becomes all of one to me.
9	piece of paper what it is that was important to you."	19	It's difficult for me to say, "Well you know here's where
0	It's almost impossible to do without leaving things	20	I found that." I don't remember anymore where a lot of
I	out. I don't want to expose myself at some later date	21	these things are.
2	and have somebody say, "Well you never told me," so with	22	Q You said the following truck avoided the accident by
3	that in mind I'll do anything you want.	23	going left of center. You mean there was a truck behind
4	Q You said you relied upon the accident report?	24	Mr. Ruegg?
5	A Sure.	25	A Yes.
	Page 30		Page 32
i	Q What information did you glean from the accident	1	Q Can you describe for me, to the best of your
2	report?	2	recollection from the documents that you have reviewed,
3	A My speech was for naught. Everything in the	3	the manner in which the accident happened. If this helps
4	accident report. I read the statements, the	4	you, that's fine.
5	descriptions, the location, where the crash occurred,	5	A The manner in which the accident happened?
6	time of day. All of those things are important.	6	Q Yes.
7	(Thereupon, Jackman Exhibit B was marked for	7	A Mr. Ruegg attempted to stop, jackknifed and ran into
8	purposes of identification.)	8	the back end of the van, then there was a domino effect.
9	By Mr. Bachmann:	9	Several other vehicles were involved.
0	Q Mr. Jackman, I am handing you what has been marked	10	Q He attempted to stop, jackknifed, then ran into the
1	as Jackman Exhibit B. Can you tell me what that is.	11	van; is that correct?
2	A It's a copy of the report of the accident in this	12	A Well since I didn't do a reconstruction, I really
3	case.	13	wasn't too concerned about this.
4	Q There is a lot of information in this report. I	14	Q That's fine.
5	don't want to go through it line by line obviously. Can	15	A That's my understanding at this point in time. I
6	you tell me in terms of your analysis and I understand	16	want to take another look at the photographs if you are
7	there are lots of factors as you indicated that go into	17	going to tie me down to this.
8	your analysis what information you glean from this	18	Q So you didn't actually reconstruct the accident?
, ,	report that ultimately formulates your opinion.	19	A You asked me this before and I said no.
)	MR. SOLES: Jack, answer the question as best	20	Q You said you put your greatest weight on certain
, [as you can.	21	types of documents: We'll go through those.
	THE WITNESS: I've already been through this.	21	What weight from this did you put on it other than
2	It's the fact that he's driving an International	1	
3	-	23	gathering information?
4	truck. By Mr. Bachmann:	24	A I can't answer that. I don't weigh these things. Q I am just trying to use your terminology. You said
5		25	

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	I T. JACKMAN	Condense	511	
		Page 33		Page
	your greatest weight on the accident report,	the 1		For determining where the impact occurred?
1 7 1	the photolog, and the line and grade sheet.	2		And the fact that it was a large tractor/trailer and
	Now you want me to talk about weight on	3		hat it was a clear day and it was light and there was no
	al items and I didn't do that. I used weight	as 4		ain. All of these things are significant if Pam going
	of art, if you will. These were the more	5		o make a determination as to the role the road played in
	nt things to me.	6		he occurrence of the accident.
7 Q Soa	Il you used the accident report for was to	7		Now you also stated you put your greatest weight on
8 gather i	nformation about how the accident appeared,	, where 8	ť	he accident report, photolog, photographs, and line and
9 it occur	red, maybe the conditions under which it	9	g	grade sheets.
10 occurre	1?	10		You mentioned photos. What photos are you talking
11 A Date	, time, light conditions, and so on.	11	а	about?
12 Q Was	there anything other than general backgroun	id 12	ł	A The ones that you just looked at.
13 informa	tion about the accident that you used the acc	cident 13	C	2 I'm handing you a series of photos.
14 report f	or?	14		A I am not going the pick out individual photos. I
	r than background information? Everything	ris 15		ooked at them all. I attempted to determine what the
1	und information.	16		character of the vegetation was. That's what I was
-	you use well here I can pick up that repor	1		ooking for.
18 if you v	· · · ·	18		Q What were you able to determine from the character
-	you use these measurements that occurred of	4		of the vegetation or about the character of the
	age of the report?	20		vegetation?
	to locate where the actual impact was.	21		A That it was close to the driving lane. It varied.
	about the witnesses' statements that are	22		That was the reason I wanted the photolog. I knew what
23 attache		23		wanted was previous to the accident along the stretch of
24 A I rea		24		the road. Not all of those photographs were specifically
1	's just to gain an understanding of how the	25		identified as to where they were taken. Some you could
2.5 Q 1110	s just to gain an understanding of now the		1	
		Page 34	_	Pag
	t occurred; is that correct?	1		tell were of the accident scene.
2 A Sur		2		The accident scene photographs were obviously very
1	you have any other reason for reading it?	3		specific, but I wanted to see what it was like further
1	unds like I'm being nefarious or something.			back up the road, and the photographs were not specific
1	t of the report and I read it. I apologize.	5	i (enough.
1 -	I shouldn't have.	6		The photolog allowed me to look at the road
	he sixth page, if you'll turn to that	7		progressively to see what it was that the drivers could
8 A Yes		8		see as they were approaching and rounding the curves.
-	ere is it looks like a handwritten drawing			Q Did you use any of the accident photos to help you
	f the truck jackknifing and impacting with t			with regard to the vegetation?
11 miniva	n. Is that your understanding of what that d	rawing 11		A Not really, no. They were used just in a very
12 is?		12	2	general way.
13 A Yes		13	6	Q That would be the packet marked police photos?
14 Q Istl	is of any particular significance to you or is	3 14	Ł.	A Yes, correct.
15 it just i	nore background material as to how the acci	dent 15	5 1	Q So those really didn't help you out that much?
16 occurre	-	16	5.	A Not as far as vegetation is concerned, but I looked
17 A We	l there are letters on this diagram and they	17	7	at them. I can't tell you specifically what I looked
	another page here in the report describing w	1		at. I don't know where you're coming from as to what
	. I told you I used this report to determine	19		helped me and what didn't. I'm telling you it's all a
	he impact occurred, so yes, I used the report	1		body of information and I used everything that I had.
	ne where the impact occurred.	20		Q I'm sure you did. So with regard to the vegetation
1	er than determining the conditions, that's	21		and the accident photos, they were not of much help to
	- then am I correct in saying that's really the	1		you, right?
-				A Well
*	urpose of what you used this report for?	24		
	at's that for?	25	2	MR. CALLAS: Objection.

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)E(ensel	
	Page 3'	7	Page 39
i	THE WITNESS: I answered with a qualification	1	Q Mr. Jackman, I'm sure you'll correct me if I'm wrong
2	and that's it. I'm sorry. That's the best I can do	2	in my statement, but it sounds to me like the set of
1	for you.	3	photographs that were most helpful to you in terms of
ł	By Mr. Bachmann:	4	determining what the vegetation was like prior to the
5	Q You have got a package marked vehicles at salvage	5	accident was the photolog.
6	area.	6	A The photolog in conjunction with the scene photos,
	A Right.	7	particularly the ones before the striping.
8	Q You looked at them, I assume.	8	Q So two sets of photos were your primary source of
9	A Absolutely.	9	information?
	Q Were they of any assistance to you in rendering your	10	A Correct.
1	opinions?	11	Q Do you consider one set of photographs that is
2	A Not in my part of this scenario, no.	12	the photos prior to striping or another set of
3	Q Now you have also got a packet marked van and scene	13	photographs that is the photolog to be more
4	and after that it says, "Later."	14	representative of what the vegetation was at the time of
5	A Yes, meaning not at the time. I should have said	15	the accident?
5 6	site rather than scene.	16	A Obviously the ones that show the area before the
0 7	O There are three sets of photographs.	17	striping, not the photolog. The photolog was taken the
8	A Okay.	18	year before and growth has occurred over that year.
8 9	Q Do you know where those photos came from?	19	Q I'm not sure if I asked this or if I haven't. The
	A This office. I have no idea.	20	set of photographs where the temporary striping is in
0	Q You don't know who did them?	21	place, do you know if that was before or after the
1	A No.	22	accident?
2	Q Did those help you in determining vegetation?	23	A It's my understanding it was after the accident.
3	A To a degree. The problem is that some of these are	24	That's what I was told.
4	so innocuous it's difficult to determine where the camera	25	Q Sometime in July it sounds like, from what you have
5			Page 40
	Page 3	j j	
1	was. The scenery there really doesn't matter where you	1	said.
2	are. It kind of looks like all the same. There is	2	A It would have to be, yeah.
3	nothing distinctive. You'd almost have to go out there	3	Q Now you also said you used the line and grade sheets
4	and look at tree limbs and everything else to make a	4	from ODOT, correct?
5	determination as to where a specific photograph was	5	A Yes.
6	taken. I was using these as a general reference, just	6	Q That would be in that category of documents that you
7	getting an idea of what the whole area looked like.	7	put your greatest weight on, correct?
8	There are two reasons I separated the two site	8	A The ones that were most important to me, yes,
9	sets. One is obviously before the pavement markings were		because there was engineering details in there that I
0	put down. The other is postpavement markings. They wer	e 10	used specifically.
1	taken at different times is what I am telling you.	11	Q Can you tell me what about those line and grade
2	Q Do you have an understanding of where those sets	12	sheets that factors into your analysis?
3	were taken?	13	A By definition, the line is horizontal alignment.
4	A Before and after the pavement markings went down.	14	The grade is vertical alignment and you need those to
15	It's pretty obvious. The pavement markings were put dow	m 15	make calculations of the design speed of the curve.
16	sometime in the latter part of July.	16	Q So the line and grade sheets did not tell you the
17	Q Okay.	17	design speed of the curve, you had to calculate that
8	A It's in some of the ODOT stuff.	18	yourself, right?
9	Q In your one hand you have got a photo.	19	A Yes.
20	A I have no idea when it was taken. Afterward.	20	Q All you used those sheets for were to calculate the
21	MR. BACHMANN: Gust, can I get copies of those	21	design speed of the curve?
22	two sets of photos?	22	A They also show right-of-way, but there was another
23	MR. CALLAS: Yes.	23	sheet that showed right-of-way. I was interested in the
23 24	MR. CALLAS: FOS. MR. BACHMANN: Color copies just like that.	24	
		25	
25	By Mr. Bachmann:	120	/ verse and and a manufacture as the second and a second s

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¥¥.	ILLIAM T. JACKMAN Conde	ase	
	Page 41		Page
	purposes of identification.)		had rendered an opinion. Was that Mr. Hilbert?
2	By Mr. Bachmann:	2	A Yeah, I read it. It was sent to me.
3	Q Mr. Jackman, I'm handing you what has been marked as	3	Q Can you pull that out.
4	Exhibit C.	4	A As soon as I find it.
5	A Yes, sir.	5	Q Is that all the information you had on Hilbert?
6		6	A Yes.
7		7	Q So I gather you couldn't really say whether what he
8		8	was doing in there was valid or not valid, because you
9		9	don't have that much information about his opinion,
10	0	10	right?
11	A As of this date. I understand from listening to a	11	A This may sound self-serving, but this is a terrible
12	conversation before the deposition started that more	12	report. I mean it says nothing as far as I'm concerned.
13	information is forthcoming. I have no idea what it	13	Q It's of no value to you?
14	contains. Obviously I reserve the right to modify this	14	A No.
15	report or, in fact, supplement the report with additional	15	Q How about this? Is it Daecher's or DeFuria's
16	opinions if this additional information proves it to be	16	report?
17	necessary, but I don't know.	17	A He pronounces it Daecher.
18	At this point in time this basically summarizes my	18	Q I gather you read that also?
19	opinions with the understanding that you're asking a lot	19	A Yes.
20	of questions that are also asking me for opinions that go	20	Q And was that of any value to you?
21	beyond the report. So anything that is included in the	21	A Value to me? You mean in the preparation of my
22	deposition that might be considered an opinion is also	22	report?
23	there.	23	Q Yes.
24	Q All your written opinions to date are contained in	24	A No, because he doesn't concern himself with this.
25	Exhibit C?	25	He concerns himself with how the accident happened. I
	Page 42		Page
1	A Correct.	1	noted that he did, in fact, recognize the fact that
2	Q In here on the first page you've got A through P.	2	Mr. Ruegg was sitting higher than the average vehicle
3	It says that these are documents that you had reviewed.	3	driver would be. Other than that, no. I Knew how high
4	Other than the depositions you had mentioned, are there	4	Mr. Ruegg was sitting anyway, so I don't need Mr. Daec
5	any other documents that you reviewed since the time you	5	to tell me that.
6	rendered this report?	6	Q You already knew that?
7	A The maintenance management system manual, at least a	7	A Sure, because I knew what kind of truck he was in.
8	current copy. I have one of my own, but I didn't know if	8	Q Otherwise that's of no value to you?
9		9	A Basically, no. It was of interest, academic
10	· · · · · · · · · · · · · · · · · · ·	10	interest, because I do the same thing.
11	I don't know what it was anymore.	11	Q The Sergeant Veppert report?
112		12	A Yes.
13		13	Q Was that of any value to you in your analysis and
14	A Correct.	14	opinions?
15		15	A No. Again it's of academic interest, what he did
16		16	and how he did it.
17	Veppert report and the DeFuria report.	17	Q Do you have any criticisms of his report?
18	· · · · · · · · · · · · · · · · · · ·	18	A Of course.
19			Q What are they?
112		19	
-		20	A I'm not doing a reconstruction, so I don't think
20	A Here is C.	21	it's fair for me to address any criticisms. I didn't
21			really look at it that closely. I just don't feel it's
21 22	Q Yes. On the first page you mentioned a copy of a	22	· · ·
21 22 23	Q Yes. On the first page you mentioned a copy of a report by Steven Hilbert, I guess.	23	appropriate at this point in time.
21 22	Q Yes. On the first page you mentioned a copy of a report by Steven Hilbert, I guess.A Yeah. That's Letter N.		• • •

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EC	CEMBER 10, 1997 Cond		It™ WILLIAM T. JACKMA
	Page 4	5	Page 4
1	THE WITNESS: He obtained a drag factor, a very	1	how the accident occurred or a computer printout of
2	specific value, by going to a different location	2	how
3	that he believes was newly paved, had the same grade	3	A I don't do that. As far as a drawing, anything that
4	and mixture of asphalt, and took a I don't even	4	I would draw would relate to the role of the road. You
5	know how he obtained it. I'm assuming he used an	5	said how the accident occurred. I'm saying that the road
6	accelerometer to do it. But be that as it may, he	6	played a role in the occurrence of the accident. So if I
7	apparently got a drag factor value by going to	7	do a diagram, it would address at least in part how the
8	another location.	8	accident occurred.
9	This always bothers me. He, as I said, didn't	9	Q I think before you said you hadn't had any
0	say how he obtained it. He just said that he did	10	discussions with Mr. Ruegg. You never talked to him?
1	it. In making use of it he did, in fact, modify for	11	A I never met him.
2	the fact that it was a truck rather than a passenger	12	Q Did you obtain or were you told about or discussed
3	car. As far as perception/reaction time is	13	with anybody evidence of any oily substance bleeding
4	concerned, he ignored the built-in brake-lag time	13	through the surface of the asphalt on July 12, 1996?
+ 5	with the air-brake system. I have no idea why, but	15	A No. It wouldn't surprise me.
5	at least it doesn't appear in his calculations.	16	Q When you went out there in February of 1997, did you
7	There are a number of other things that I	17	see any such evidence?
3	remember commenting to my daughter on without really	18	A You wouldn't.
s)	making any notes of, so those are some of the things	18	Q Why not?
			-
) 1	that I have a problem with.	20	A What you are referring to is the normal evaporation
	But again, I didn't do a reconstruction, so I	21	of the soluble materials used in an asphaltic concrete
2	can't I don't want to be more specific than	22	mix to make them I am going to use the word fluid, but
; 	that.	23	I don't mean like water, but to make them pliable so that
	By Mr. Bachmann:	24	they can be poured and rolled in place. Then the
5 (Q Did you read the Davidson report?	25	solvents come up to the surface and they are evaporated.
	Page 4	5	Page 4
	A What Davidson report? Obviously not.	1	How quickly they can evaporate is based upon temperature
	Q Mr. Soles or Mr. Callas hasn't provided you with a	2	and the humidity. So obviously hot, dry weather will
3 1	report from a man by the name of Davidson?	3	allow this phenomenon to exist for a much shorter period
	A No.	4	of time than cooler, damp, weather work and and an a
	Q Have they told you about it?	5	Q Is that a usual occurrence or unusual occurrence?
5 4	A A report by Mr. Davidson?	6	A No. It always happens. That's the nature of the
r (Q Yes.	7	asphalt. You can't help it. to a
3 /	A I thought I heard them ask you if you got a copy of	8	Q But in this case you hadn't heard of that?
) (a report. Other than that, no.	9	A I'm not aware of it.
) (Q They haven't discussed it with you?	10	Q How long you said obviously depending on the
	A No.	11	temperature and the humidity how long would such a
2 (Q Do you plan on creating any exhibits for trial?	12	condition last?
	A I have no idea. If asked, I will.	13	A As little as seven days if you got a string of hot,
	Q Have you been asked to?	14	dry days. And maybe as much as four to six weeks if it's
	A No, not yet.	15	miserable weather. Obviously in any place it depends
	Q You haven't done any yet?	16	upon the conditions.
	A No. I made that drawing that I showed you during	17	Q Did you have any opinions as to the signage that was
	the break.	18	in place at the time of the accident?
	Things and drawings of less precision than that have	19	A From what I gathered in reviewing the materials, the
	been used in trial, so while I'm not waving a flag that	20	signs are misleading or the sign was misleading.
	- +	20	Q What signage in particular are you talking about?
	that's a trial exhibit, it could be if necessary. But		
	nothing has been said to me one way or the other.	22	A Advisory speed plate associated with the curve sign.
	Q Since you didn't do an accident reconstruction, you	23	Q What was that advisory speed plate?
	are not going to do a computer simulation and/or make any	24	A With the left reverse curve sign, the advisory speed
5 :	sort of scale model or any scale drawing with regard to	25	plate was 35 miles per hour.

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WI	LLIAM T. JACKMAN	Condense	DECEMBER 10, 1997
		Page 49	Page 51
1	Q How is that misleading?	- 1	that you have normal driving conditions, in that case
2	A Drivers have learned that where curves are conce	rned 2	what is of concern here is the degree of curve and the
3	and an advisory speed is associated with the sign th	at 3	rate of super elevation, banking, if you will. The
4	the state assuming it's a state sign is based on	4	banking of the curve.
5	the geometric conditions. In other words, super	5	Q Is there a particular page or section or chapter of
6	elevation, the degree of curve. They have learned th	at 6	the manual?
7-			A There is a section in the manual that describes how
8	just experiences. If properly done, the advisory spe		when you have a curve the design speed can be
9	will be the design speed of the curve.	9	determined. There are two ways of determining it. One
10	If you drive your vehicle at that speed, all of the	10	is actually going into the field using a device called a
11	forces on you are neutralized; therefore, you feel ver	1	ball-bank indicator and actually driving the road at
12	comfortable sitting in your vehicle as you go around	•	various speeds, noting the readings on the device and
13	curve. If you drive faster than the design speed, the		then making various adjustments. But this means you have
14	you feel centrifugal force throwing you forward, ou		to get involved in traffic and driving at various speeds
15	of the curve. You'd better hang on to the steering	15	and it's time consuming.
16	wheel, depending upon how much faster you are go		It's really something that two people should be
17	On the other hand, if you go slower than the	Ing. 10	involved in, not one, because speed is critical. You
18	advisory speed, then you feel gravity pulling you in		have to maintain your speed and you have to maintain your
19	the curve; and again you are either ending up agains	1	alignment on the roadway. That quite often is done and I
20	door or hanging on to the steering wheel.	20	know the state does do that. I know they have to the
21	So if the design speed is 35 miles an hour and if	i - 1	best of my knowledge, every district has at least one
22	you drive 35 miles an hour, you are very comfortab	1	ball-bank indicator that they can install in a car.
23	sitting in the car. There are no forces acting on you		The other way of doing it is mathematically. That's
23	If, on the other hand, the design speed is higher	24	determining what the characteristics of the alignment
25	than 35 if it, for instance, is 45 and you're drivin	1	are, physically determining the super elevation and the
	dian 55 " If it, for instance, its 45 and you it univer		
Ι.		Page 50	Page 52
1	it 35, you feel uncomfortable. So to attain that feel	- 1	
2	of comfort, you will speed up.	2	5
3	Q What was the speed limit through this section of		
4	roadway?	4	
5	A 55, I believe. Yes.	5	Set of the
6	Q And am I correct in thinking that you believe th		
7	advisory speed should have been 45?	7	A Correct. And the
8	A Associated with the curve sign, yes. If the state		
9	follows their policies, yes.	9	
10	Q So you believe the advisory speed should have h	(
11	45 miles an hour associated with that left I think	•	-
12	said left reverse curve sign.	12	
13	A Correct grades	13	*
14	Q Is there any sort of standard or technical standar		
15	or something that tells you that this should be I n		
16	is there anything in the ODOT materials? You ment		
17	something in your answer about according to ODOT		
18	A According to their policies.	18	
19	Q What policies are you talking about?	19	· · · · · ·
20	A The sign. The manual says if you are going to p	1	
21	up an advisory speed sign, you shall do it in such a	way 21	
22	as to properly inform the driver as to what the safe	22	
23	speed is for the conditions; assuming that you have	bad 23	
24	weather.	24	1 5 0
25	Forget snow, ice, fog, and all that stuff; assuming	ng 25	Q Perhaps that was a bad question for you, sir.

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	Page 53	1	Page 55
1	Your opinion as to signage that was in place and the	I	sight distance is not something that the typical motorist
2	only opinion you have is that the 45 miles an hour should	2	is aware of. They don't realize that they can't see far
3	have been a 45 miles-an-hour advisory plate?	3	enough to stop until a situation occurs where they have
4	A Based on ODOT's methods of doing things and	4	to stop and all of a sudden they realize that they can't
5	substantiated in my readings of the deposition testimony	5	stop in the distance they had.
6	of the several people.	6	So the better way to do this as long as we're not
7	Q Can you tell me what from the depositions	7	tearing down mountains which can get very expensive.
8	substantiated that?	8	We're talking about cutting trees or cutting back
9	A 4 think the deposition testimony of Smith states	9	vegetation. You do that so that as people are rounding a
0	that they are not concerned with stopping sight distance.	10	curve, they can see across the inside of the curve, away
1	Q Why is that a problem?	11	from the road, across this open area, if you will, and
2	A Why is that a problem?	12	see what's ahead of them on the road. Not just along the
3	Q Yes.	13	road, but at an angle so they can see what's around the
4	A I didn't say it was. You said what in the	14	corner, if you will. Now they can attach some reason to
5	deposition substantiated my opinion and I told you.	15	the signage.
5	Q Do you have any criticisms of that statement by	16	As a result you put up a curve sign and you set the
7	Smith?	17	speed limit for the curve, whatever it is. In this case
8	A It's a statement. How can I criticize a statement?	18	it would be 45 miles an hour. You give them enough sight
9	Q Well is that the way it should be done or should it	19	distance so when they are driving
0	be done differently?	20	comfortably which they are going to do anyway, most
1	A I'm telling you that's the way it is being done.	21	people are. When they are driving comfortably, they will
2	Q Is that the correct way to do it?	22	have adequate sight distance so that if something
3	A As with the attorney's general office, ODOT is God.	23	transpires on the road ahead, they can do something about
4	If somebody tells Smith to do something, he will do it.	24	it and bring their car to a safe stop or whatever is
5	Q But I mean you're a professional engineer, are you	25	necessary, adjust their speed or whatever.
	Page 54		Page 56
1	not?	1	Q This is something a traffic engineer should be
2	A Yes.	2	doing?
3	Q According to your background, training, and	3	A Well the traffic engineer doesn't cut the trees, but
4	education, is that the correct thing ODOT should be doing	4	the traffic engineer makes a determination of what's
5	with regard to signage and sight distance?	5	necessary and would advise the appropriate parties that
6	A Well now you're changing the question. They	6	certain maintenance procedures have to be done.
7	should. Where possible and where practical, they should	7	Q So it's really up to the traffic engineer to make
8	give the needed sight distance. They should give	8	that determination, right?
9	whatever sight distance they can to approximate at	9	A Well sight distance look, you're asking me to
0	least the speed limit of the road, if not the design	10	determine ODOT policy and I can't do that.
1	speed of the road. Quite often roads are designed at	11	Sight distance is a design feature? The design
2	higher rates of speed than they are signed for. As a	12	engineers are aware of it. At least they should be,
3	traffic engineer	13	because they are designing these roads.
4	Q I don't understand what you said.	14	The construction engineer should be aware of it
5	A As traffic engineers, we have a responsibility not	15	because they are building the roads.
6	to fool the public. We have to advise them of the	16	I would like to believe that the maintenance
7	conditions as best we can so that they are prepared to	17	engineer, since he associates or they associate
3	handle the circumstances that they are driving into.	18	themselves with these other engineering disciplines,
)	Now it's very inexpensive to put up a sign.	19	would also be aware of it. They really ought to talk to
)	Relatively speaking, signs are cheap. To post signs and	20	one another. It's a team effort, so there should be an
	all that stuff is cheap. It's better to remove an	21	awareness of what is necessary as far as stopping sight
1	obstacle than to say, "Watch out. There is an obstacle	22	distance is concerned on all sections of the roadway, if
			certain things have to be done in certain areas to attain
1 2 3	-	22	
2 3	ahead."	23	-
2	-	23 24 25	that desired result, whatever it is. The traffic engineer out there is interested in

CondenseItTM WILLIAM T. JACKMAN **DECEMBER 10, 1997** Page 57 Page 59 signage. And generally a traffic engineer will look at 1 If you're building a road and it costs too much 1 things a little differently because the job of the 2 2 money to fill this valley next to you that's 200 feet 3 traffic engineer is to take something that is already 3 deep -- and it really would -- you put up a guardrail so 4 built and make it work. So when I suggested that he 4 that an errant vehicle doesn't end up tumbling down 200 5 might be the one to be aware of this, I don't think it's 5 feet of hillside. his duty to do it. I just think because of his training 6 6 If for some reason you are resurfacing and this 7 and because of the things he does on a day-to-day basis, 7 procedure or -- maybe shoulder work requires that the he's the one who more probably will be aware of it or edge line that the driver had the benefit of for the last 8 8 9 should become aware of it. 9 umpteen miles is no longer there we temporary, but it's 10 The maintenance engineer is saying, "Do I need to 10 no longer there. Now you can't guard that; but you can 11 cut the grass? Are there limbs overhanging the road? 11 put up a sign or signs that warn motorists that, "Hey, 12 Does the ditch need cleaning?" It's those kinds of 12 buddy, you know you've had the benefit of an edge line, 13 things. He's looking at things on a very microlevel, you 13 but you don't have it for the next umpteen miles. For 14 know, right here. 14 whatever reason, it's not your concern. You don't have 15 The traffic engineer has to take the long picture 15 one." 16 because he has to worry about somebody that is on a 55 16 So these are the techniques that we use to inform 17 mile-an-hour road. He has to worry about somebody 17 the drivers of a situation and hopefully make them safer

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drivers as they traverse this area.

motorists of that condition.

A Or a guard.

Q Or a guard?

Q Tell me if this is a fair statement then. The

then to place the appropriate signage to warn the

standard with regard to this roadway engineering is to

either remove the obstacle and if it can't be removed,

Page 58 Page 60 1 obstacle as you say is part of that roadway engineering A Right, or both. The situation might be such that 1 process, is it a standard practice in this roadway 2 2 you use both guard and warning. 3 engineering process -- whether it be design, 3 Q Some human being obviously had to make that construction, maintenance, or traffic -- to remove 4 determination, correct? Whose responsibility is it to 4 5 obstacles like that? make that determination whether they're going to remove 5 6 Is that a standard practice? 6 the obstacle, guard, or guard and post the appropriate 7 A The idea is to remove obstacles. 7 signage? 8 Q What is the standard though? What is the standard 8 A The highway department, assuming that it's a state 9 practice? 9 highway. 10 A It depends. The idea is to remove obstacles. If 10 Q Assuming it's a state highway. A Yeah, the highway department does. 11 the obstacle cannot be removed reasonably, then you must 11 12 guard against the obstacle. You do that in two ways. 12 Q Is there a certain range of options in which they 13 can operate as to determine "Well we could do this. We You do that by crecting guardrails, for instance. 13 14 Impact attenuators, these types of devices that would 14 could do that." 15 restrain an errant vehicle from becoming involved with an 15 Do they have discretion to determine what they are 16 obstacle. You post the appropriate signage, warning the 16 going to do under the circumstances or is there a set 17 driver of a condition that either on a temporary basis or 17 standard for certain conditions? 18 on a permanent basis the driver has to live with at least 18 A Well the standard is there. How they meet that 19 as he traverses his section of road. standard. I think is what you are asking me, is a 19 20 Remember I talked about a mountain before this, 20 discretionary thing. You know, that's the basis of 21 cutting back a mountain. It's easier to cut trees than 21 lawsuits. 22 to shave a top off a mountain. Well it gets expensive, 22 It's a little difficult for me to pass judgement, 23 so if the mountain is too close or if there are jagged 23 but obviously one of the constraints that the highway 24 boulders or something that can't be reasonably removed, 24 department has is money. They have got X number of 25 then you put up a guardrail. dollars with which to operate and Y number of demands for 25

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driving 55 miles an hour. That guy really doesn't care

duty as such, but he's the one most logically that would

if the grass is cut or not. Who cares? So it's not his

Q Is it in terms of roadway engineering, I guess, is

A Stopping sight distance is an element of that, yes.

Q In terms of roadway engineering, if removing an

come up with that need, if you will,

what we're talking about, correct?

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<u></u>	CENIDER IV, 1997 CONC	iense	WILLIAM T. JACKMAN
	Page 6	1	Page 63
1	those dollars. So somebody has to figure out how to	1	stuff."
2	apportion the dollars to get the maximum benefit. That's	2	They never looked at the road sign. They never
3	generally a judgement call.	3	looked at the fact that people have to see around the
4	Q So if the highway department has a choice between	4	curve. They can't. Even with all of this, along comes
5	removing an obstacle, like cutting down trees, and	5	an accident where somebody is killed. Now they get
6	putting up signage, the signage is cheaper to do and in	6	letters that say, "Hey, now we've killed somebody. Are
7	their judgement is enough to warn the motorist of a	7	you going to do something yet?"
8	hazard ahead, whatever that hazard is, then they have met	8	All of a sudden, people jump into action. Thank God
9	the standard; is that right?	9	for state representatives.
10	MR. CALLAS: Objection. Go ahead.	10	Q You think it was wrong that ODOT somehow breached a
11	THE WITNESS: I've been talking generally about	11	standard by limiting their view of this stretch of State
12	situations. I thought that's what we were talking	12	Route 93 to the roadway?
13	about. Now you're getting specific. Cutting trees	13	A Absolutely. They breached a duty of care that they
14	is not that damn expensive, so I don't believe that	14	owe the motorists.
15	we can equate \$100 worth of signs against \$1,000	15	Q What is that duty of care?
16	worth of man-hours to cut some trees.	16	A To make the road as safe as is reasonably possible
17	By Mr. Bachmann:	17	and not to confuse or not to misinform the motorist.
18	Q Would it be in the highway department's discretion	18	Q In this case how did ODOT confuse and/or misinform
19	to make that judgement whether they are going to place	19	the motorist?
20	signage or cut trees? Do they have that discretion or is	20	A They had a curve They had a set of curves. They
21	there no discretion?	20	had a left reverse curve that was of such a design that
22	MR. CALLAS: Objection.	22	
23	THE WITNESS: Well you're asking as if it were		the safe speed, the design speed if you will, basically
23 24	an either/or. In this case they did nothing. That	23	was 45 miles an hour. They signed it for 351
25	in itself is a decision.	24 25	Motorists, as I told you before, drive so that they
	Page 62	_	are comfortable. If you come into this area and you
1	Now I don't know if it was based on knowledge.	1	Page 64 believe the sign and you slow down to 35 when you are
2	I have a hunch it was based on ignorance. They	2	driving the curve, you will know that something is wrong
3	didn't know that they had a problem out there. It	3	
4	took a series of accidents to beat them over the	4	and you will tend to pick up speed until you feel more
5	head with it to go out and take a look and figure	5	comfortable. You may not know why you're uncomfortable.
6	out that maybe they could improve the situation and		You may not know what's wrong, what fooled you. You just
7	somebody saying, "Hey, okay. Go ahead. Do it."	6	know that 35 miles an hour is not the appropriate speed
8	By Mr. Bachmann;	7	for driving purposes.
	Q When you say they did nothing, I assume you are	8	Sight distance doesn't enter the mind of the typical
9 0		9	motorist until they need that sight distance for some
0	talking about ODOT, correct?	10	reason. Now the highway department posted a sign that
1	A Yes.	11	says 35 miles an hour associated with the curve. We
2	Q Can you be more specific when you say they did	12	know, based on the deposition testimony of Smith at
3	nothing?	13	least, that ODOT doesn't consider sight distance when
4	A Well it's my understanding that a series of	14	they put up these advisory speed signs. If they did, you
5	accidents have happened in this area before. It's my	15	don't associate it with the curve. You put up another
6	understanding that they have been asked to take a look at	16	sign that says, "Limited sight distance 35 MPH, 25 MPH,"
7	this area before and everybody seemed to think that	17	whatever it is.
8	everything was honky dory.	18	So if you're going to tell the motorist you want
9	It's my belief that they were limiting their view to	19	them to slow down because of limited sight distance, then
0	the roadway itself.	20	you tell them that it's limited sight distance. It has
1	"Hey, we put up a hill sign. Hey, we warned about	21	nothing to do with the curve.
2	the left reverse curve. We even put up an advisory speed	22	Q Is that something that's in the manual that you are
3	sign. What more do you want from us? We've got	23	talking about, this limited sight distance sign?
	crossbucks and flashing lights on the railroad and we've	24	A The manual is a guide for commonly used signs and
24	A A A A A A A A A A A A A A A A A A A		

		ense	
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1	engineer you have got to use your brain and you use the	1	acres of land to cut down a couple of trees if it's
2	manual's principles, apply those principles to the	2	necessary. I'm not suggesting that in this case it was,
3	situation, and develop the required traffic control	3	All I'm saying is ODOT has the responsibility to look at
4	devices that you need to handle this particular	4	their entire right-of-way and see if there is anything
5	situation	5	they can do within those limits to maximize safety.
6	If it means you have to develop a new sign, if you	6	If they find in that investigation that they can
7-	will, a sign with a particular legend that may not be in	7	partially meet the needs of traffic but it better meet
8	the manual or you may not have on the shelf someplace, so	8	the needs of traffic. If they went beyond the limits of
9	be it. You do what you have to do. It's done all of the	9	the right-of-way, then they have two options They can
10	time.	10	acquire additional right-of-way or if it's something
11	Q Is this limited sight distance sign one of the signs	11	simplistic like cutting back vegetative growth or cutting
12	in the manual or is that something that you have to	12	back a farmer's field, then the least expensive and most
13	develop?	13	expedient method would be just to approach the land ow
14	A I'm sorry. I'm not getting through to you. I'm not	14	and ask permission, obviously paying the expense of doi
15	sure if it's in the current manual or not. I didn't	15	it because it's for a public good. The farmer doesn't
16	look. In this instance I didn't think it was important,	16	need it. So as long as ODOT or whoever pays the costs
17	because it was so inexpensive to cut back the	17	involved, that would be the better way to go. I believe
18	vegetation. No traffic engineer worth his salt would	18	ODOT along with any public agency has that duty.
19	even think about putting up a sign rather than cutting	19	I had that duty when I was traffic engineer in
20	back the vegetation.	20	Erie. I utilized it. I went to private property owners
21	Q Let me try to summarize the point I think we're at.	21	to ask them to cut evergreen trees so there would be a
22	So it's your opinion that the history of this particular	22	view underneath the canopy of the evergreen trees so that
23	location, this particular stretch of State Route 93	23	people at a stop sign could see oncoming traffic.
24	between Orrville Street and the railroad tracks more	24	Q It's your opinion that there was limited sight
25	specifically from the area of the railroad tracks was	25	distance around this second curve?
Ι.	Page 6		Page
	such that ODOT had a duty to trim back that vegetation,	1	A Absolutely.
2	to cut back the vegetation?	2	Q Limited sight distance to where?
3	A Yes, sir.	3	A To where?
4	Q How far does that duty extend in terms of cutting	4	Q Yes.
5	back the vegetation?	5	A Stopping sight distance.
6	A Obviously to the right-of-way line. They don't	6	Q At some point you mean to a fixed point in the
7	control anything beyond that.	7	roadway? Tell me how that works.
8	Now the highway department can, if necessary, go to	8	A To any point in the roadway. How do you know wh
9	private property owners and ask permission to go beyond	9	you're going to run across something in the roadway that
10	the right-of-way and make whatever adjustments are	10	you are going to have to react to?
11	necessary.	11	Q So there is
12	Stark County has a history of doing this to improve	12	A It's a constant thing as you go along the road. How
1	sight distances at intersections. They have been cutting	13	far down the road can you see?
13	-		
13 14	back fields, banks on fields. It doesn't belong to the	14	Q So anytime that and I'm sure you'll correct me if
13	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can		I'm wrong. Anytime according to the design speed of t
13 14	back fields, banks on fields. It doesn't belong to the	14	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and
13 14 15	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can	14 15	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and
13 14 15 16	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they	14 15 16	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and
13 14 15 16 17	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they show the farmer how they are going to do it. They make	14 15 16 17	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and there is some sort of obstacle, like around a curve, ODO
13 14 15 16 17 18	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they show the farmer how they are going to do it. They make the change to open up the cross corner sight distance at	14 15 16 17 18	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and there is some sort of obstacle, like around a curve, ODO has a duty to if there is brush there to cut back
13 14 15 16 17 18 19	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they show the farmer how they are going to do it. They make the change to open up the cross corner sight distance at intersections. The land still belongs to the farmer.	14 15 16 17 18 19	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and there is some sort of obstacle, like around a curve, ODO has a duty to if there is brush there to cut back to the right-of-way?
13 14 15 16 17 18 19 20	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they show the farmer how they are going to do it. They make the change to open up the cross corner sight distance at intersections. The land still belongs to the farmer. Obviously money is being spent on private property,	14 15 16 17 18 19 20	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and there is some sort of obstacle, like around a curve, ODO has a duty to if there is brush there to cut back to the right-of-way? A If necessary. If you don't have to cut back to the
13 14 15 16 17 18 19 20 21	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they show the farmer how they are going to do it. They make the change to open up the cross corner sight distance at intersections. The land still belongs to the farmer. Obviously money is being spent on private property, but it's being spent for a public safety purpose, so it's legal.	14 15 16 17 18 19 20 21	I'm wrong. Anytime according to the design speed of t roadway that there is not adequate sight distance and there is some sort of obstacle, like around a curve, ODO has a duty to if there is brush there to cut back to the right-of-way? A If necessary. If you don't have to cut back to the right-of-way, you don't cut back to the right-of-way.
 13 14 15 16 17 18 19 20 21 22 	back fields, banks on fields. It doesn't belong to the county. They approach the farmer and ask if they can come in to grade back to this particular field and they show the farmer how they are going to do it. They make the change to open up the cross corner sight distance at intersections. The land still belongs to the farmer. Obviously money is being spent on private property, but it's being spent for a public safety purpose, so it's	14 15 16 17 18 19 20 21 22	I'm wrong. Anytime according to the design speed of the roadway that there is not adequate sight distance and there is some sort of obstacle, like around a curve, ODO has a duty to if there is brush there to cut back to the right-of-way? A If necessary. If you don't have to cut back to the right-of-way, you don't cut back to the right-of-way. I'm not saying you've got to clear-cut everything.

	CEMBER 10, 1997 Conde	1	
_	Page 69		Page 71
1	Go back 12 feet, whatever works for the maintenance		A Unless it was one of those roads that dates back to
2	people.	2	the early 1800s before we even had automobiles. Then at
3	Remember, this is not something that ODOT does all	3	some point when these roads were built for automobiles
4	the time. If you don't want a no-passing zone, ODOT	4	and engineers started to take a look at this thing,
5	makes a determination as to when it's safe to pass or	5	that's when something should have been done.
6	not. All I'm saying is they can't reasonably make a	6	Q Would you agree with me that on the date of this
7	determination and advise the motorist the way they can	7	accident, July 12, 1996, the driving conditions were
8	with yellow lines as to what the safe stopping sight		ideal?
9	distance is. They tell them what the safer passing	9	A No
10	distance is, but not the stopping sight distance. So if	10	Q Why not? I mean other than the trees I
11	you can't tell the motorist, then at least give him the	11	understand you have a problem with the vegetation.
12	stopping sight distance that he needs if it's within your	12	A Well that goes a long way. If you can't see far
13 -	reasonable control to do it.	13	enough to stop
14	Q In reasonable control within the right-of-way?	14	Q. Other than the vegetation.
15	A Within the right-of-way, as long as you	15	A It was not ideal. The highway department
16	know obviously if we've got a hill sign here, I'm not	16	misinformed the motorist as to the design speed of the
17	telling you you've got to blast away half a mountain to	17	curve.
18	do it.	18	I don't know what the pavement surface conditions
19	Q At what point in time does this duty arise when they	19	were like at the time. You seem to be telling me that
20	build the roadway? When you discover there are accidents	20	there might have been an accusation that there was an
21	at locations?	21	oily substance on the road that might have contributed to
22	A When they build the roadway these things are looked	22	the occurrence of an accident. That's not ideal. I'm
23	at. That's part of the design standard. The problem is	23	not saying that's something that you have to live with,
24	roads that have been in existence for a while, you will	24	but it doesn't make it ideal.
25	be told that they weren't designed. That's a lot of	25	Q How about the weather conditions?
	Page 70	-	Page 72
1	malarky. Maybe an engineer didn't sit down and draw a	1	A I understand it was a sunny day, so to that extent
2	sophisticated set of plans like similar to what they	2	it's the design weather conditions. You don't have
3	would do today, for instance, but somebody did	3	inclement weather.
4	something. That road didn't just happen.	4	Q What do you mean design weather conditions?
5	Over time if you go back in history enough, some	5	A I thought I explained that before. We assume that
6	of these roads believe it or not date back to nothing	6	you have noninclement weather, if that's a word. We
7	more than animal paths through the forest. Over time	7	assume that you have nice weather conditions as opposed
8	they are used by various people and things are cut back.	8	to rain, fog, sleet, snow, ice, etc.
9	Back in the 20s and 30s, it was "Get us out of the	9	Q Assume for what purposes?
10	mud," so we started paving roads. Dirt roads and stone	10	A Design purposes. 55 mile-an-hour signs, for
11	roads began to be paved, so roads happened. But they	11	instance, are well the speed limit in the State of
12	happened in an organized fashion, so there are design	12	Ohio is prima facie. That means speed reasonable for
13	standards whether the road was designed or not.	13	conditions. The 55 mile-an-hour and the 35 mile-an-hour
14	The people who maintain the roads I'm not talking	14	sign are for normal conditions. Normally although
15	just about maintenance or the maintenance department, I'm	15	today is not a perfect example, normally here in Ohio we
16	talking about the people who have the responsibility for	16	have more noninclement weather conditions than we have
17	the road in question, who have to look at what the design	17	inclement weather conditions.
18	standards are existing on that road	18	Q Correct me of I'm wrong, but you don't have an
10	Q So	19	opinion as to the condition of the pavement or whether
	A and act accordingly.	20	the stopping conditions were good?
20	 A and act accordingly. Q So when this road was built and around that curve 	1 -	A You mean as far as the characteristics of the
21	· •	21	
22	you had the 45 miles-an-hour design speed and those trees	22	surface of the road are concerned?
23	were there, they should have cut back to whatever line	23	Q Yes.
24	they had to cut back to in order to get this accurate	24	A No, other than what you were alluding to earlier.
25	sight distance?	25	Q Since I gather you didn't do an accident

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	Page	dense	It ^{ra} DECEMBER 10, 199 Page 7
1	reconstruction, then let's go to Exhibit C, Page 2.	1	used, yes or no.
2	A I'm there.	2	Q So that would be a discretionary thing in other
3	Q On Page 2 you've got points which you call your	3	words?
4	analysis and evaluation work. Are these factual	4	A Yes.
5	observations really?	5	Q You're talking about the Ohio Uniform Manual of
6	A It's setting the scene, if you will.	6	Traffic Control Devices, correct?
7~		7	A Correct.
8	you know how many vehicles were stopped at the railroad	8	Q That's the standard that you apply with regard to
9	crossing grade?	9	signage in the State of Ohio?
10	A I suppose I can look it up. I don't know, three or	10	A By law that's what we apply, yes.
11	four, something like that.	11	Q In No. 8 you also say, "About 426 feet north of the
12	Q Does the number of vehicles have any bearing on your	12	start of the left reverse curve" let me withdraw that
13	opinion?	12	and start again.
14	A No. It would just change the point of impact.	13	"At about 426 feet north of the start of the left
15	Q In No. 6 here on Page 2 of Jackman Exhibit C, it has	15	reverse curve ODOT had installed a pair of left reverse
16	"That Eugene Ruegg was southbound on State Route 93 at		curve signs."
17	stated speed of 45 miles an hour."	17	Who did that measurement?
18	Where did you get that information?	18	A We did when we were out there.
19	A Police report.	19	Q Did you do it or did Lyn do it?
20	Q Does that have any bearing on your opinion?		
21	A All this does is set the scene.	20	A I was recovering from hip replacement surgery, so
22	Q It doesn't figure into the opinions that you have	21	she did most of the walking. Since we're talking about
23	arrived at, though, the speed of his vehicle and whether	22	an 8 percent grade Q How did she measure that?
24	he was going 45 or 105?	23	A We have a wheel.
27 25	A Well I made some observations in my opinion,	24	
		25	Q Did you do any surveying when you were out there or
	Page	ł	Page
1	statements as to what he could or couldn't have done had	1	did Lyn do any surveying?
2	the vegetation been cut back, so 105 wouldn't work.	2	A I'm assuming you mean with a transit and level
3	Q Obviously I was being extreme.	3	Q Or with an EDM or whatever.
4	A I know, but to that end I did use the 45 states	4	A No.
5	Q Do you know at what point in the curve he became	5	Q Did the foliage obstruct any of the signage?
6	aware of the stopped vehicles?	6	A No.
7	A No. That would be a reconstruction element. I'd	7	MR. SOLES: At what point in time?
8	have to back up from the skid marks, make assumptions as	8	By Mr. Bachmann:
9	to his perception/reaction time.	9	Q To your knowledge, at the time of the accident?
10	Q You haven't done that, correct?	10	A No.
11	A I haven't done a reconstruction.	11	Q So ⁻ again, in your mind the issue is not whether they
••			could see the warning, it was whether the warning was the
12	Q Do you intend to do such	12	-
	A I haven't been asked to do it.	12 13	right warning?
12 13 14	A I haven't been asked to do it.Q Let me just ask a series of questions about it. I		right warning? A Warning has nothing to do with this other than you
12 13	A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he	13	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which
12 13 14	A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was	13 14	right warning? A Warning has nothing to do with this other than you
12 13 14 15	A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he	13 14 15	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which
12 13 14 15 16	A I haven't been asked to do it.Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.?A Well they would probably be the same speed; but what	13 14 15 16	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't
12 13 14 15 16 17	A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.?	13 14 15 16 17	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't give the motorist adequate stopping sight distance so
12 13 14 15 16 17 18	A I haven't been asked to do it.Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.?A Well they would probably be the same speed; but what	13 14 15 16 17 18	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't give the motorist adequate stopping sight distance so that if a problem arose at the design speed of the curve,
12 13 14 15 16 17 18 19	A I haven't been asked to do it.Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.?A Well they would probably be the same speed; but what that speed was I don't know other than the police officer	13 14 15 16 17 18 19	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't give the motorist adequate stopping sight distance so that if a problem arose at the design speed of the curve, the motorist could take appropriate action.
12 13 14 15 16 17 18 19 20	 A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.? A Well they would probably be the same speed; but what that speed was I don't know other than the police officer indicates an estimate of 45. 	13 14 15 16 17 18 19 20	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't give the motorist adequate stopping sight distance so that if a problem arose at the design speed of the curve, the motorist could take appropriate action. Q You mention in No. 10 a letter from State
12 13 14 15 16 17 18 19 20 21 22	 A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.? A Well they would probably be the same speed; but what that speed was I don't know other than the police officer indicates an estimate of 45. Q Let's go down to No. 7. You said; "There was no * 	13 14 15 16 17 18 19 20 21	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't give the motorist adequate stopping sight distance so that if a problem arose at the design speed of the curve, the motorist could take appropriate action. Q You mention in No. 10 a letter from State Representative Johnnie Maier.
12 13 14 15 16 17 18 19 20 21	A I haven't been asked to do it. Q Let me just ask a series of questions about it. I guess it would be true that you don't know how fast he was going when he saw the vehicles or how fast he was going when he applied his brakes, etc.? A Well they would probably be the same speed; but what that speed was I don't know other than the police officer indicates an estimate of 45. Q Let's go down to No. 7. You said: "There was no *- advisory speed plate W-143 supplementing the Hill sign."	13 14 15 16 17 18 19 20 21 22	right warning? A Warning has nothing to do with this other than you misinformed the motorist as to the proper speed at which the curve should be taken. The problem is you didn't give the motorist adequate stopping sight distance so that if a problem arose at the design speed of the curve, the motorist could take appropriate action. Q You mention in No. 10 a letter from State Representative Johnnie Maier. What bearing does that have on your opinion?

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		Page 77		Page 79
	s prodded to do it, and because of that certain thi	ngs	1	for purposes of identification.)
-	opened.		2	By Mr. Bachmann:
	Did you talk to Mr. Maier?		3	Q Let me hand you what has been marked as Jackman
	No.		4	Exhibit D. You also have an original in front of you.
-	You haven't read Mr. Ray's deposition?	ŀ	5	Can you tell me
6 A [.]	Yes, I did.		6	A Is this everything?
7	MR. BACHMANN: Would you like to stretch yo	our	7	Q Make sure that's complete.
8 .	legs for a moment?		8	A Okay. Go ahead.
9	THE WITNESS: Would you mind?		9	Q Can you tell me what page you got that information
0	(Thereupon, a recess was taken.)		10	from.
l By	Mr. Bachmann:		11	A Which information?
2 Q 1	Mr. Jackman, let's go to Jackman Exhibit C and	Page	12	Q What you just testified as to the design speed of
	f that. Again, all your opinions are contained on	1	13	the curve.
i Pag	ges 3 and 4 of Jackman Exhibit C, Items 1 throug	h 10?	14	A Design speed of the curve I got from this page.
5 A '	Yes.		15	(Indicating.)
5 Q .	Did you actually drive the roadway? I mean I kn	now	16	Q I am just going to mark these one through whatever.
7 you	I're out there looking at the scene, making		17	A Be my guest. They are your exhibits.
3 obs	ervations, taking measurements, etc. You were the	rying	18	Q It's a nine-page exhibit and you are talking about
e to g	get the lay of the land, so to speak, but did you		19	the seventh page; is that right?
) actu	ually drive up and down the roadway?		20	A According to your numbering, yes.
I A J	I went up and down once.		21	Q These are the calculations you used to arrive at the
2 Q I	In what type of vehicle?		22	design speed?
3 A 3	My car.		23	A Yes.
ŧQ.	What kind of car?		24	Q The measurements, the chord, middle ordinate, and
5 A 🕽	It's a Lincoln Town Car.		25	super elevation were taken from that one ODOT drawing?
		Page 78		Page 80
L Q I	How fast did you go coming down?	0	1	A No, this was done from the fieldwork that we did.
	I don't know. I never paid much attention to it.		2	Q Are those notes contained in your personal notes,
	Now you said the design speed of the left reverse	.	3	your notes from the fieldwork?
	ve is 45 miles an hour, correct?		4	A That's this. (Indicating.)
	Yes, that's what I said.		5	Q The drawing that you did?
	Now is that when we're talking about the left		6	A Well it's not I wouldn't classify it as a
	erse curve, is that when you are coming down that	at	7	drawing. It's just field notes really. It's always the
	, you make one to the left and one to the right do	I	8	last one.
	he railroad tracks?		9	(Thereupon, Jackman Exhibit E was marked
	That's why it's called a left reverse curve.		10	for purposes of identification.)
	Is that 45 miles-an-hour design for the entire cur	1	10	By Mr. Bachmann:
	just for segments of it?	1	12	Q So Exhibit E is the sketch?
	One is 45 and one is 46.	1	12	A Yes, sir.
	May I see the document that you are referring to.		14	Q These were notes made in the field?
	Signs are made at 5 mile-an-hour increments. W		15	A Yes, sir.
	a't put up a sign that says 46 miles an hour. We		16	Q Then these notes translate into the design speed
	nearest 5-mile increment. When we have 45 and	• I	17	calculations that you made on Page 7 of Jackman
	arly the appropriate sign is 45.		17 18	Exhibit D?
	Which one is 45 and which one is 46?		18 19	A Well I used some of the information contained in
	I say curve number one and I'm trying to reme			A well I used some of the information contained in this field worksheet to make the determination of the
	· · · ·	1	20	
	ich one curve number one is. Since there is only	1	21	design speed which occurs.
	e an hour difference, it really doesn't matter.	1	22	Q On Page 7 of Jackman Exhibit D, you've got some
-	It's a minimal difference?	1	23	measurements here at the top right of each edge line.
	One mile an hour, absolutely.		24	You have 168.9 feet right at the center southbound line,
5	(Thereupon, Jackman Exhibit D was marked		25	655.9, etc. Then you have similar measurements and 602

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	Page 81	1	Page
1	for the second curve.	1	they will be comfortably positioned.
2	Where do these measurements come from?	2	Basically that's what you are saying?
3	A If you're in the same order I am, this is	3	A Yes.
4	seven. Look at the last page.	4	Q Now for what type of vehicle is this design speed?
5	Q Okay.	5	A truck or a passenger vehicle or what?
. 6	Can you show me or are you able to show me on	6	A We're talking about centrifugal force, the gravity
7	Jackman Exhibit E?	7	being balanced. What difference does it make what you're
8	A Which one is E?	8	riding in?
9	Q The sketch where those measurements came from.	9	Q That's what I'm asking you.
10	A They are not on E.	10	A I'm telling you it makes no difference. We are not
11	Q Can you show me, for example, on the last page of	11	talking about vehicles." We are talking about forces
12	Jackman Exhibit D, which is Page 9, it says, "Curve to	12	acting out on the body.
13	radius of west edge line."	13	Q So it could be Mr. Ruegg's tractor/trailer rig or it
14	I guess the R meant radius approximately 602	14	could be a regular old sedan?
15	feet. Can you show me where that measurement roughly	15	ActYes
16	where on Exhibit E that measurement occurs?	16	Q It doesn't matter?
17	A It doesn't.	17	A Yes ₂ a worked
18	Q Okay.	18	Q You didn't use a ball-bank indicator that day?
19	Tell me how you got that measurement.	19	A It takes too much time. It would cost the client
20	A It's calculated down here on Page 7. And if you'll	20	too much to do that. No, I did not.
21	look at curve two, you'll see R of west edge line is	21	Q Is that a preferable method or more accurate method?
22	602.0. This is a simplistic formula. If you know the	22	A You really haven't been listening to my answers.
23	chord and you know the middle ordinate, then you can	23	No. It's an alternate method. It's what the highway
24	determine the radius of the circle. Apparently I just	24	department uses. Why is beyond me. It just means that
25	punched it out of the chart. I didn't bother writing it	25	they don't have to do the kinds of things that I did, get
<u> </u>			
Ι.	Page 82		Page
	down.	1	out of the car and take some measurements or go to a set
2	Q So you used the chord and the ordinate for all these	2	of plans and use the geometric information contained in
3	radiuses of the edge line and pavement edges, etc?	3	the plans.
4	A No. As far as pavement edges and center lines are	4	Q Both would yield the same result, right?
5	concerned, I used the one over here on E. There is a	5	A If the ball-bank indicator is properly handled. Now
6	cross-section of the road.	6	I gave you a five-minute dissertation on the shortcoming
7	Q Where it says, "Edge to edge"?	7	of a ball-bank indicator. If you want me to go through
8	A Correct, yes. So I knew where the pavement edge was	8	it again, I will, but it is critical. It's kind of like
9	and the edge lines and so on. I could then adjust that	9	a computer. Garbage in is garbage out.
10	so that I could get to the center line and use it. We	10	I told you that the line of the car and the roadway
11	didn't want to go stand out in the middle of a 55	11	must be constant. You can't move back and forth betwee
12	mile-an-hour road with 100 foot tape, then run to the	12	the edge line and the center line. You have got to keep
13	middle of that tape and measure the middle ordinate.	13	the same spacing. Your speed must be kept constant.
14	It's not safe. So we do it off on the berm and then	14	Since the driver is concerned with both speed and
15	mathematically add to it. We know that if you're out	15	alignment, that same person cannot take readings of a
16	measuring the inside of the curve, the radius gets	16	moving weight inside a bubble of glycerin, so a second
17	longer. The farther out you go as the curve gets	17	party is needed. How good can they read that ball-bank
18	bigger, the circle gets bigger and the radius gets	18	indicator? It's a very gross instrument. It is not a
19	longer.	19	precise reading. It is not digital. It's an old if
20	Q Did any trains pass through while you were out there	20	you have ever ridden in old airplanes, this is the old
21	on February the 26th?	21	horizontal instrument for the small planes. That's all
22	A Darned if I know.	22	it is, yes.
23	Q So simply put, opinion No. 1 is what the design	23	Q What is the required sight distance for such a curve
24	speed is, 45 miles an hour of the left reverse curve, and	23	with a design speed of 45 miles an hour?
149	spoor is, an innes an inner of the territed caracter and	144	TTIGE G ADDIELE SPACE AND TO LEADED STATES AND ADDIES
25	that if a driver drives at that speed around the curve	25	MR. SOLES: This particular curve or what curve

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)E		lense	It [™] WILLIAM T. JACKMAN	.
	Page 8	5	Page 87]
1	are you talking about?	1	A It doesn't matter how fast you are going. Two and a	ĺ
2	THE WITNESS: 45 miles an hour, minimum 325,	2	half seconds reaction time two is the specific	
3	preferred 400.	3	impetus. It's used for design purposes. You've got to	
4	By Mr. Bachmann:	4	have something.	E.
5	Q Now that's minimum and preferred stopping sight	5	Q Why not three seconds? Why not five seconds?	
6	distance, right?	6	A I don't know. Why not?	
7	A Yes:	7	Q You don't know why? In other words	1
8	Q That's per the LMD Manual, correct?	8	A I'm telling you the standard is two and a half.	
9	A Yes, sir.	9	Q I'm asking you if you know why it's two and a half.	
0	Q What section of that are we talking about?	10	A Because ASHTO said so.	
1	A Hell, it was something that you sent to them.	11	Q Do you know why ASHTO said so?	
2	Q Why don't you tell me what you are looking at	12	A Jesus Christ. There are certain things that are	
3	there.	13	given, okay? An individual doesn't fight it. This stuff	
4	A 201-1, reference section 201.2.	14	happens over time. A lot of research has gone into	
5	Q Now is this for are there any assumptions that go	15	developing what a reasonable design reaction time is.	
6	into this stopping sight distance of 325 to 400 feet?	16	How they finally arrived at it is beyond me. It was done	
7	A The minimum is based on average running speed and	17	by a committee. That means it's a camel, not a horse.	
8	driver's reaction time of two and a half seconds. The	18	But these things are given and it is a standard.	
9	preferred is based on stopping sight distance and I'm	19	Now if you don't like it, I don't care. I'd be more	
0	sorry. The preferred stopping sight distance is based on	20	than happy to make it three. If it's three, you would	
1	the design speed and a driver's reaction time of two and	21	need more distance. We know that in a panic situation,	
2	a half seconds.	22	perception/reaction time is less. But we also know that	
3	Q Could you go through that again a little more slowly	23	the typical driver doesn't the need for reacting to	
4	for me. The minimum was based upon an assumption of the		traffic control devices is different from the need to	
5	average running speed of	25	react to somebody who darts out in front of you from	
1	Page 8 A Not the average running speed. Whatever it says,	Í	Page 88	
1]	behind a parked car.	
2 3	you know, pick a number. Q 45 miles an hour?	2	So we use two and a half seconds reaction time for	
		3	design purposes and for everything. We use it when we	
4 5	A If we're working on that assumption, yes.	4	post a sign that tells a driver that there is a curve	
5 6	Q On a 45 mile-an-hour design speed?	5	that he's got to slow down for or tells the driver there	
5	A If we're assuming a 45 mile-an-hour design speed,	6	is a hidden driveway ahead. We know the drivers are not	
7 °	the minimum is based on the average running speed. ODOT	7	driving focused on the road ahead. It's not reasonable.	ł
8	assumes that people drive under the design speed. This	8	It's not safe. They have got to know what's going on	
9	is a rather antiquated idea, but that's their basic	9	around them. That means they are looking in their	
0	assumption. It assumes a driver's reaction time of two	10	rearview mirrors and their side-view mirrors so when the	
	and a half seconds.	111	object first is capable of being viewed by them, they may	
2	Now the preferred the higher number is based on	12	not be looking in that direction. So if you give them	
3	the design speed in other words, 45 miles an hour, not	13	two and a half seconds, hopefully if they happen to	
4	41 or 42 and the same reaction time of two and a half	14	glance in their rearview mirror, within that two and half	
5	seconds.	15	seconds' time their view will come back to the road	
5	Q Now how is that two and a half second reaction	16	ahead. They will see the sign or they will see the need	
7	time why two and a half seconds?	17	to adjust their speeds accordingly.	
}	A That's the design/standard.	18	We don't design so that people are put in a sudden	
)	Q Do you know what factors go into that?	19	emergency situation. That's not good design. But you	1
)	A There are no factors. It's a given number.	20	have a good question. Why not three seconds? I don't	
]	Q How do they get that number? Is it arbitrary?	21	know. Somebody has decided in their virtual wisdom that	
	A Yes.	22	two and half is appropriate.	
		,		1
2 3	Q Somebody said, "Well let's figure at two and half	23	Q Now ASHTO, is that a recognized standard-setting	1
2	Q Somebody said, "Well let's figure at two and half seconds to react at 45 miles an hour. That's what we	23 24	Q Now ASHTO, is that a recognized standard-setting body?	

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		Page 89	F
1	doesn't tell you in our book, use ASHTO.	1	1 the feeling is, at least as far as the law is concerned,
2	Q Is ASHTO the State of Ohio standard or is the	ata 2	Address and the second s
3	national organization?	3	Any driver knows the shortcomings of his or her veh
4	A No. If you want federal dollars, you'd bette	ar 4	and they have to accommodate that into their thinkin
5	follow ASHTO standards. If you want to know	what it 5	5 they drive down the road.
6	means, you should have asked that.	6	5 Again, our speed laws are prima facie, reasonable
7	Q Is ASHTO something that you recognize as a	standard 7	7 for the conditions. One of the conditions that must b
8	authority for this type of thing?	8	taken into consideration is the vehicle itself. So if
9	A Not me. In the industry.	9	your brakes are bad, you'd better not drive as fast as
10	Q In the industry?	10	you would if the brakes are good.
11	A The State of Ohio recognizes it as an author	ity. 11	1 Q Let's go to Jackman Exhibit C and No. 3. I'm
12	Q But also the engineering industry too recogn	1	
13	correct?	13	
14	A I thought we were talking about the departm	ent of 14	
15	transportation, their engineers.	15	
16	Q Well you are an engineer. I mean you recog		
17	as an authority, don't you?	17	
18	A What difference does it make if I recognize		
19	important thing is that the State of Ohio recogn		
20	Q Do you recognize it?	20	
20 21	A Of course I do.	20	
22	Q Thank you.	22	
22 23	Now in terms of this reaction time, do you l		
	-	1	~
24 25	goes into that? Is that for a particular vehicle to being driven?		_
25	being univen?	25	
	<i>.</i>	Page 90]
1	A Perception/reaction time goes with the indiv	1	
2	The vehicle doesn't respond to a sign, the drive		
3	responds to the sign.	3	
4	Q So again, that could be a driver in a semi-tra		
5	truck and a driver in a sports car?	5	
6	A That's a redundant question. Obviously, ye		
7	Q I think somewhere I saw where you had an	8 percent 7	
8	or 8.3 percent grade.	8	
9	A It's about 8 percent grade.	9	0 0 0
10	Q Does that sound about right?	10	· · · · · · · · · · · · · · · · · · ·
11	A You probably saw it on that drawing.	- 11	0, , , , , , , , , , , , , , , , , , ,
12	Q I think you're right. That does not come int	to play 12	
13	with regard to the design speed of this curve, ri	ght? 13	3 Q In No. 2 here on Jackman Exhibit C of Page 3 of
14	A No.	14	4 exhibit you say, "The foliage acted as a view obstruct
15	Q We talked about reaction time. We may have	ve covered 15	5 to any driver of a large truck."
16	this, but I want to make double sure.	16	6 You're not talking about foliage that extended in
17	With regard to the actual stopping sight dist	ance at 17	7 the roadway itself, correct?
18	the 45 miles-an-hour design speed, you have go		8 A Correct.
19	of 325 feet and the preferred feet of 400 feet, or		
20	A If you are using the design speed, it's 400.	1	
21	are using the so-called operating speed, then it'		
22	Q That's for any type of vehicle? That's just	i	
23	the standard is?	23	
25 24	A That's what the standard is. Obviously a tr		
<u> </u>	AN A MAR O MINAL LIN OLAHOLAU IO. COMOUSLY A U		-
25	needs greater distance to stop than a passenger	car, but 25	5 A By cutting back the foliage, yes were served

-		ndense	
	Page		Page 95
1	Q What you used to determine the basis for your	1	Q Well I mean do you actually on the center line
2	opinion in No. 2 were the photographs?	2	A These are station numbers.
3	A As far as this written report is concerned, yes.	3	Q Show me how you count.
4	It's substantiated in subsequent deposition testimony.	4	A Well each station is 100 feet.
5	Q Okay.	5	Q So going around this we'll call this the second
6	In No. 4 you say, "ODOT knew, or should have known	, 6	curve, the reverse curve closest to the railroad tracks.
7	that trucks regularly use this route."	7	A This is the one near the tracks. Here's Orrville
8	A Yes.	8	Street. (Indicating.)
9	Q I guess my question is and I don't want to be	9	Q Going toward Orrville Street, this sight distance is
10	smart about it, but so what. What is the point here?	10	at what point along the roadway?
11	A The point if you'll read down lower you'll see	11	A Center of lane to center of lane.
12	that because of the various setbacks of the vegetative	12	Q Continuous around the reverse curve?
13	growth, the driver of a large truck was at a greater	13	A Well, yeah, but I assumed that it was uniform. I
14	disadvantage than was the driver of a passenger car.	14	assumed that the foliage up to about 5 feet was cut back
15	Both of them were at a disadvantage. Neither had	15	5 to 7 feet. Above that it was to the edge of the
16	adequate stopping sight distance.	16	pavement because they don't cut high and the trucks would
17	Q Why was the driver of a large truck at a greater	17	beat back whatever was up there.
18	disadvantage?	18	Now, as I said, it's not uniform. I mean the state
19	A Because the foliage at his eye level was hanging out	19	doesn't go out there with a yardstick and precisely cut
20	farther over the roadway or closer to the edge of the	20	back exactly that's why they say 5 to 7 feet. It
21	road than was the foliage for the passenger car driver.	21	isn't precise. It's someplace in there, so it's going to
22	Q Let's go to No. 5. You say that, "The available	22	vary depending upon what's there.
23	stopping sight distance was nominally 175 feet at the eye	23	It's the same way with the overhead stuff, depending
24	level of drivers at large trucks and 220 to 225 at the	24	on where the trucks are as they follow the curvature of
25	eye level of passenger vehicle drivers."	25	the road. We are going to get branches lopped back and
	Page	94	Page 96
1	Can you tell me or show me where you calculated that	t 1	maybe some are hanging out as far as the white edge
2	or how you figured that?	2	line. Others might be farther back, if trucks go over
3	A I used the construction drawings.	3	the white edge line. The white edge line and the edge of
4	Q Can you pull that out and just give me a brief	4	pavement are not one and the same, so it can be anyplace
5	description on what you did. What is the drawing	5	in there.
6	called? You had a name for it earlier.	6	Q So in going to Jackman Exhibit Cat No. 5 on Page 3,
7	A I call it line and grade.	7	Mr. Ruegg had 175 feet of available stopping sight
8	Q Line and grade is what you called it. Looking at	8	distance?
9	the line and grade drawing, tell me what you did.	9	A That's why I say nominally
10	A I went from this is the center line of the road.	10	Q So there is a minimal or maximum?
11	(Indicating.) So I went from I determined where the	11	A You know, plus or minus. I don't know. Nobody can
12	pavement edge was actually where the two driving lane	s 12	prove it one way or the other. The stuff is gone. It
13	were. I went to the center of the driving lane and to	13	depends on where we are in space, because it's not
14	the center of the other driving lane.	14	uniform. It isn't a brick wall that somebody has nicely
15	Based upon where the foliage was in the drawing	15	laid up.
16	itself, we knew that the state cut back the low stuff 5	16	Q Can you tell me where, relatively speaking, this 175
17	to 7 feet. We know that for practical purposes the	17	feet of stopping sight distance was?
18	overhead foliage was up to the edge of the road. As far	18	A In the curve and along the entire length of the
19	as large trucks are concerned, to the eye level of the	19	curve. As he moves forward, he can see the this is a
20	higher driver, so it's just a matter of going from center	20	uniform curve. It's a simple curve. The radius remains
21	of road to center of road and determining what the sight	21	the same. So if you're here, you can see 175 feet. When
22	distance is.	22	you move another 100 feet ahead, you can still see 175
23	Q So what did you do? You just took a rural tour and	23	feet. It's a different 175 feet, because you have
23 24	you somehow figured along the center line?		moved. But that's all you can see ahead until you get
£-4	A It's a scale drawing. What are you asking me?	24 25	past the point, wherever that is, that the foliage is
25			TAMAN FOR THE DESIGN AND THE STREET STREET STREET STREET STREET

CondenseIt[™] WILLIAM T. JACKMAN **DECEMBER 10, 1997** Page 97 Page 99 interfering with your view. 1 the driver, not because it was a truck. 1 2 At some point the curve ceases being a curve and 2 Q You have talked about advisory speed plates and how 3 it's very -- the PC, the point of curvature or where the 3 drivers naturally moderate their behavior, right, so they 4 curves ends if you are southbound, from that point on, 4 can drive comfortably around a curve? 5 the road is tangent or straight? So the closer you get 5 A Yes. to that point, the less the foliage is going to be Q Do drivers also naturally moderate their behavior 6 6 7~ obstructing your view. That's assuming that the foliage 7 for sight distance as well? is uniform all the way along here. 8 8 A No Contraction Even if it's along the tangent, at some point when 9 9 Q Why not? 10 you hit the railroad tracks -- even if the foliage is 10 A 'Because it isn't of importance to them until they 11 still back to the edge of the pavement, as long as the 11 realize they don't have it. 12 road is straight, you can see forever. Now the trees 12 Q Is that based upon some sort of ASHTO standard or 13 don't bother you. 13 study? How do you know that? 14 Q You don't know how much available stopping sight 14 A. We're talking about human factors, what a person 15 distance Mr. Ruegg had for that minivan that was sitting does. What a person does is based upon their senses. If 15 16 there in the road, do you? you ask -- count me out -- but if you ask the other four 16 17 A No. He had an average of 175 feet as he was 17 people in the room how long this table is, you are going to get four different answers. It's the same length. It 18 approaching 18 19 Q As he was approaching, but you don't know if he had 19 doesn't change. 20 175 or 225 feet or 300 feet before he saw that minivan, 20 Now you get out on the road and you ask somebody how 21 far down the road they can see, the number is going to do you? 21 22 A I doubt very much if it was 300. 22 change. Make it better, ask them how far down the road 23 Q You don't know if he did? 23 they would be -- if they had to stop right now, where 24 A I know it wasn't 300. 24 would they end up. I'll guarantee you it's going to be 25 Q Okay. 25 awfully short until it happens. That's why we have Page 98 Page 100 1 How do you know that? 1 accidents. 2 A The vegetative growth was too dense. 2 Q Now you were driving your Lincoln Town Car that day? 3 Q Can you give me a maximum that he would have had? 3 A Yes, I was. 4 A Now come on now. We've been talking about Q You were the driver, not Lyn? 4 A I don't remember. I think I was the driver. I am 5 averages. Don't try to pin me down. I don't know. The 5 cops don't know. The state doesn't know, and they cut 6 not absolutely -- yeah, I think I was the driver. 6 7 the trees down. 7 Q In No. 6 -- and I don't want to do this because the 8 Q You don't know? 8 table would tell us -- but if we went to that same LMD 9 A And I don't know. table --9 10 Q Good. 10 A That's where it came from, yes. Now obviously there 11 A But I know what the average growth was and I know is no 27 miles an hour, so this was extra --11 12 how it limited it and I know that that van was in the 12 Q How did you get to No. 7 here if this area had been 13 curve. This accident happened while still in the curve, 13 cleared on the day of the accident? The sight distance 14 not on the straightaway. 14 available to all motorists would be only 400 feet. How 15 Q Let's go to No. 6 of Jackman Exhibit C on Page 3. did you do that? 15 16 So the design speed for large trucks and for passenger A Same thing, to where the straight line met the 16 17 vehicles correlates to the available stopping sight 17 right-of-way line, you know. 18 distance in No. 5? 18 Q In the standard that you are applying here -- the 19 A Yes. 19 standard for cutting back is what we discussed earlier? Q So in other words -- so I can kind of state it more 20 A Well I don't know if it's a standard. I'm telling 20 21 directly -- given what you called the nominal stopping 21 you they had a responsibility to maintain the road in a 22 safe a fashion as is practical. It's my opinion that 22 sight distance for drivers of large trucks, then the 23 design speed for all practical purposes was 27 miles an cutting the trees down was practical. Their actions 23 24 hour? proved it. The fact that they did cut it down was after 24

25

25 A Correct. That's because of the height of the eye of

- Page 97 - Page 100

the fact, but it was practical because they did cut it

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DE	CEMBER 10, 1997	Conden	isel	t [™] WILLIAM T. JACKMAN	
e.		Page 101	1	Page 103	
1	down.			A The question is unreasonable.	-
2	If they did what was practical at an appropria		2	Q Well what's the answer? You didn't do any analysis	
3	time, this accident wouldn't have happened and I	•	3	of his reaction time, did you?	¢.
4	some of the previous accidents wouldn't have hap	ppened,	4	A If I say no it implies that it's possible. I'm	<u>1</u>
5	depending upon when they realized that they had	a problem	5	telling you it can't be done.	
6	with inadequate stopping sight distance.	ļ	6	Q Let's go to No. 1 on Page 4 of Jackman C. "The	
7	Q Let's go to No. 8 on Jackman Exhibit C, Page	- 4.	7	failure of ODOT to trim back the vegetation to afford	
8	If the growth had been cut back and 400 feet	of	8	approaching drivers a sight distance in keeping with the	
9	sight distance made available, the design speed w	ould	9	other design characteristics of the curve was a proximate	
0	have been 40 to 50 miles an hour to the design sp	peed 1	10	cause of the accident."	
1	based upon 77	1	11	What do you mean by proximate cause?	
2	A You misread. It's 45 to 50, not 40 to 50.	1	12	A The same thing that everybody else means. It was	
3	Q I'm sorry. I probably mumble too much.	1	13	because of the situation. It contributed to the	
4	A That would be design speed based on stopping	g sight	14	occurrence of the accident.	
5	distance. The design speed based on the force sti		15	Q Are there other proximate causes?	
6	remains the same, but the two would be would	{		A I don't know.	
7	approximate one another.	1		Q Do you attribute any faults to Mr. Ruegg?	
8	In other words, if you're driving at the design	1	18	A That wasn't my objective. My objective was to look	
9	speed of the curve, 45 miles an hour, you would	í	19	at the role the road played in the accident. I wasn't	
0	sufficient sight distance and sufficient stopping s	1		reconstructing the accident.	
1	distance to safely drive at 45 miles an hour. Now	-		Q So it wasn't a factor in what you did, Mr. Ruegg's	
2	saying up to 50.			driving?	
3	Q You say the forces acting on the vehicle are	1		A No, other than it was a truck that he was driving.	
2 4	gravitational?			Q Did you know that he was convicted of vehicular	
:5	A And centrífugal.	1		homicide?	
	A Anti with theget.				
	• Deve it wetter what the target for high info	Page 102		Page 104	
1	Q Does it matter what the type of vehicle is?		1	MR. CALLAS: Objection.	
2	A No. I really should have said the person, beca	4	2	THE WITNESS: No, I didn't. What does that	
3	it's what you sense. You adjust your driving to	- 1	3	have to do with this case, sir?	
4	as the driver sense happening, to you what you fe	1	4	By Mr. Bachmann:	
5	Q In No. 9 then on Page 4 of Jackman Exhibit (5	Q Was that used in obtaining your analysis at all?	
6	said, "Had Mr. Ruegg's available sight distance a	4	6	A Absolutely not.	
7	the last curve been about 400 feet, given his state	1	7	Q Why not?	
8	approach speed of 45 miles per hour, he would have		8	A Why not? If you don't have sight distance and you	
9	able to stop his vehicle short of the vehicles alrea	· .	9	hit somebody, someone in their wisdom may decide that you	
0	stopped for the passing train and no impact woul	d have	10	were negligent because you were driving too fast and	
1	occurred."	1	11	couldn't stop. But the fact remains had the sight	
2	But again you didn't do any calculations with	1 regard	12	distance been there and given that sight distance you	
3	to his skid marks or any sort of reconstruction. T	1	13	could have avoided the accident, then why should I	
4	based solely upon design speed and what the sigh	nt 1	14	concern myself with what some individual decided was	
5	distance needed for the design speed is?	1	15	imperfect driving?	
6	A Yeah, whether 400 feet would have been suffi	cient 1	16	Q You would agree with me, wouldn't you, in any	
7	for him to bring his vehicle to a stop at 45 miles	an 1	17	accident there are really three factors? One is the	
8	hour.	1	18	roadway or conditions of the roadway. Two is the driving	
9	Q For that vehicle or for just any vehicle general	lly? 1		and three the vehicle being driven?	
0	A Any vehicle. He locked his brakes up, so we	-		A Yeah, very good.	
1	he's got brakes.	I	21	Q You agree with that?	
2	Q You didn't do any analysis of his reaction tin	1	22	A That's my mantra, yes. These are three possible	
23	you?		23	things. You said there are three things, no. Three	
24	A How can I do that?	1	24	elements, yes. There is physically a vehicle, physically	
25	Q The answer is no?		25	a driver, physically a road. But one, two, or three of	1
۳.	X				1

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	Page 10	5	Page
1	those elements could have contributed to the cause of the	1	Q Yes. Is this just another written explanation of
2	accident. At least one in all accidents. Most accidents	2	what you have done?
3	will have two and some accidents will have all three.	3	A Yes.
4	Q You haven't done that sort of analysis to take into	4	Q Let's go to Page 8 which is two pages back. Can you
5	account all those factors, you have just analyzed roadway	5	explain to me what this
6	conditions?	6	A Don't worry yourself about it. All it does is it
7	· · · · · · · · · · · · · · · · · · ·	7	allows me to make that drawing. I don't have something
8	Q Let's go to Page 6 of Jackman Exhibit D. The radius	8	that's 3,000 feet long or to the scale or 300 inches long
9	of the center line is 572.76?	9	to make an arc, so to lay this out. There are other ways
10	A Yes.	10	of doing it. Using tangents did offer other sets.
11	Q This is for which, left or the reverse?	11	That's what I did here. It's just a calculation so that
12	A No, this is for the reverse curve. This is using	12	I could make the drawing. It has nothing to do with
13	the data that's on here. (Indicating.)	13	anything.
14	Q Which document is that?	14	Q Did you use the line and grade drawing, the point of
15	A This is the line and grade sheets that we were	15	intersection, the point of tangent, and the point of
16	looking at before.	16	curvature for any of these calculations?
17	Q Now you have down below stopping sight distances.	17	A No. I didn't have this when I was drawing all of
18	This is from the LMD manual, correct?	18	this.
19	A Yes.	19	Q Okay.
20	Q Then you said offset to sight	20	On Jackman Exhibit E, which is your sketch, you've
21	A Obstruction.	21	got the grades here. Were those grades given to you or
22	Q Where does that come from?	22	did you measure them?
23	A Well I'm talking now about the if we assume that	23	A This is all fieldwork.
24	we have a 10.1 degree curve, to get the minimum and	24	Q Mr. Jackman, I'm just about done, but I've got a few
25	maximum. Assuming the stopping sight distance as being	25	more things I want to get through here.
	Page 10	16	Page
l	minimum, the maximum would be looking at 35 miles an	1	How many active cases do you currently have?
2	hour, 225 to 250. Then the offset would be 12 to 14 feet	2	A I have no idea.
3	for the obstruction. In other words, where does that	3	Q More than, 100?
4	straight line go?	4	A There is no way of telling. Quite often we will
5	Q That's how far through the curve you need to see,	5	work up a case and the attorney says, "Fine. Send out a
6	correct? In other words let me state it differently.	6	report." Or "Don't bother sending out a report. I'll get
7	In other words, how far back you have to trim the	7	back to you."
8	vegetation	8	I've got cases that date back five years. I carry
9	A Yeah.	9	them as open files because I closed one file once and
10	Q so you can see through the curve?	10	eight years later I had to appear in court. So I'm very
11	A Yes.	11	careful now about what I call closed. I really don't
12	Q So going the design sign speed of 45 miles an hour	12	know. We've got a lot of open files.
13	and giving the minimum preferred sight distance here on	12	Q Is what you do, forensic engineering because I saw
14	Page 6 of Jackman Exhibit D, you'd have to trim back 27	14	that term.
15	to 34 feet	15	A That is what I call forensic engineering, but I
15 16	A Correct.		limit it to vehicular accident reconstruction.
10	Q in order for you to be able to see through that	16	Q What is forensic engineering?
	curve?	17	A It's kind of like forensic medicine. You utilize
18		18	
19	A Yes.	19	facts available to you postaccident and work backward
20	Q Then down below it says, "Available offset that was	20	see if there is something and if you have enough evidence
A -	existing"; is that right?	21	to help you determine what caused the accident
21	A Yes.	22	initially.
22			
22 23	Q Can you explain to me what the four lines down below	23	Q Do you work solely for attorneys and insurance
22		23 24 25	Q Do you work solely for attorneys and insurance companies?A Well we've taken a couple of private clients, but

)Ł	CEMBER 10, 1997 Cond		
;	Page 10 they have been a problem. So for practical purposes,		Page 111
1	that's it.	1	to locate freeways to serve the motoring public, to
2		2	locate interchanges on freeways, and to roughly design
3	Q How long have you been engaged in this forensic	3	the interchanges.
4 5	engineering solely for attorneys and insurance companies? A Since '74. I wasn't doing it full time then. I was	4	For instance, my work says the efforts I made
5		5	determined the number of lanes that would probably be
6	still doing design work. I started my design practice in	6	needed. This is very preliminary. Number of lanes,
7	'68, so I was doing traffic engineering design work. In	7	interchange design based on volume, where should they be
8	'74 I got involved in accident reconstruction work.	8	located relative to surface streets, those kinds of
9	That year probably, at most, 10 percent of my effort was	9	things.
0	in accident reconstruction.	10	Q Have you done any design work that involves stopping
1	Then 12 years later, in 186, I looked at my work and	11	sight distance or design speed calculations?
2	it had reversed us So 90 percent of my effort was accident	12	A Actual design work?
3	reconstruction and 10 percent was design work. I said	13	Q Yes, sir.
4	the heck with the design work.	14	A No. I taught it when I was teaching college. I
5	Q When was the last time you designed a state or	15	taught this stuff. I use it when I review plans.
5	interstate highway?	16	Q You are licensed in Ohio, Pennsylvania and Michigan
7	A I don't design highways #I am a traffic engineer.	17	currently?
8	Q You have never designed a roadway?	18	A We like to consider ourselves registered as opposed
2	A I've worked with not in private practice, but in	19	to licensed.
D	other I worked with Howard, Needles, Tammen &	20	Q Okay, registered. Have you ever had any
1	Bergendoff and the work there was designing roadways.	21	organization attempt to take away your PE license?
Z	Q It says, "Responsible for the traffic engineering	22	A No, sir. I sure as heck wouldn't show it down
3	aspects of the 185 mile Cuyahoga County freeway system."	23	there.
4	You are responsible for setting up traffic warning	24	Q Just asking. Some questions you don't like to ask,
5	devices?	25	but you've got to ask.
	Page 110)	Page 112
1	A Where are you?	1	Have you ever been terminated from employment?
2	Q Let's just mark it.	2	MR. SOLES: Objection.
3	(Thereupon, Jackman Exhibit F was marked	3	THE WITNESS: Terminated? No. As a matter of
ļ	for purposes of identification.)	4	fact, the mayor would not accept my resignation. He
5	By Mr. Bachmann:	5	made me hire my replacement, believe it or not.
5	Q Mr. Jackman, I am handing you what has been marked	6	By Mr. Bachmann:
7	as Exhibit F. That's your resume, I assume.	7	Q How many depositions do you give a year?
3	A Yes.	8	A It varies. As I said, from '74 until now the number
9.	Q It's current?	9	is about 350, whatever that works out to.
)	A Yes.	10	Q About how many have you given this year?
	Q You were working for Howard, Needles, Tammen &	11	A Well I had double surgery last year, so my work load
2	Bergendoff. What is the traffic engineering you were	12	this year is way down. It's five or six, maybe seven.
;	doing there?	13	Q Prior to your surgery?
ŀ	A Specifically this was the major project. I did	14	A It would vary, anywhere from 10 to 20.
5	other work for them, but this major project was the	15	Q How many times have you testified on an average
5	preparation of a corridor report for the Cuyahoga County	16	annual basis in court?
,	freeway system. At that time it was 185 miles. Some of	17	A On an average, nine times, eight to nine.
;	that has been eliminated. The purpose for our work	18	Q Just stretch your legs for a minute. Let me just
	effort was to develop a I might as well use the title	19	take a minute. I think I'm done, but I just want to make
	corridor for each of the freeways that were proposed in	20	absolutely certain.
	Cuyahoga County.	21	(Thereupon, a recess was taken.)
2	My concern was looking at the desires of motorists.	22	By Mr. Bachmann:
	A study had been done, an origin and destination study,	1	•
	a owney sense where where a distance distinction sendly,	23	Q Mr. Jackman, you said before we actually started the
3		1.0.4	domonition that was didn't and to 1 1 Y 1
	using the information of where people are coming from to where they are going. The purpose of the trip was to try	24 25	deposition that you didn't want to be here. I just want to know what you meant by that.

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WI	LLIAM T. JACKMAN	Condense	It DECEMBER 10, 1
	Pa	ge 113	Page
1	A You asked to take my deposition. I didn't really	1	·
2	feel like getting up early this morning and driving	2	(Thereupon, the deposition was
3	through that rain to be here.	3	concluded at 1:05 p.m.)
4	I was concerned about payment and the policies of	4	
5	the state, which I disagree with. I understand their	5	
б	state policies and I understand you can't control them.	. 6	
7-	I was just explaining to you that I am not here by	7	
8	choice. I'm basically here under subpoena. I'm here,	8	
9	but that's what I meant by I didn't want to be here.	9	
10	It's nothing against you.	10	
11	Q No offense taken. You have read the Joe DeFuria	11	
12	report. Do you have any criticisms of that?	12	
13	A Yes.	13	
14	Q Please tell me what they are.	14	
15	A His railroad advance warning signs.	15	
16	Q What is your criticism?	16	· · · ·
17	A He says the prevailing approach speed is 35 to 45	17	
18	and I underlined it and I said study it. I was under th	1	
19	impression that we had not I was under the impress	1	
20	that the attorneys requested any studies that were mad	4	
20		20	
	in the area and I didn't see any speed studies, so I		
22	don't know how he determined what the prevailing ap		
23	speed is.	23	
24	He is using 45 miles an hour. The particular table	1	
25	for a stop condition justifying the location of the	25	
		ge 114	Page
1	railroad advance warning sign, he is saying it needs a	1	
2	minimum of 550 feet versus the 600 feet at which the		
3	actually located.	3	
4	I guess he wants a pat on the back, but my concern	n 4	
5	is the speed limit is 55 and you sign for the speed	5	
6	limit. So the advance warning should be placed 750 f	feet 6	
7	back as opposed to 600 which is actual, so I have a	7	I, WILLIAM T. JACKMAN, do verify that I have
8	problem with Mr. DeFuria.	8	read this transcript consisting of one-hundred seventeen
9	Q Any other problem?	9	(117) pages, and that the questions and answers are
10	A Basically, no, other than the 35 miles an	10	correct.
11	hour. You know, I don't know whether I know that t	here 11	
12	was a 35 mile-an-hour sign up there. I have no way o	1	
13	knowing where it came from, and it's my understandi	ng 13	WILLIAM T. JACKMAN
14	neither does he.	14	
15	Q What do you mean where it came from?	15	
16	A Well somebody had to put it up. Nobody that is	16	Subscribed and sworn to before me this
17	there now put it up. There is no paperwork indicating	i i	day of, 1997.
18	the basis for the erection of that sign. There is no	18	
19	study that's been made. The manual requires a study.	1	
20	There is no record of any study that was made and	1	
21	one knows why a 35 mile-an-hour sign was put up of		Notary Public.
22	than it's there, so they continue to leave it in place.	22	, , , , , , , , , , , , , , , , ,
22 23	In fact, I'm assuming as one wears out or is vandalize	1	Mu convictor system
	or knocked down or what have you, they replace it.	24	My commission expires
31	or knocked down of what have voll, they replace it.	24	
24 25	MR. BACHMANN: Thank you, sir.	25	

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CEMBER 10, 1997	CondenseIt [™]	WILLIAM T. JACKMAN	ľ,
CERTIFICATE	Page 117		
STATE OF OHIO,)) SS:			
SUMMIT COUNTY.)			
f Malling Manuel & Makama David in and Santa			
I, Melissa Karm, a Notary Public in and for the State of Ohio, duly commissioned and qualified, do hereby certify that the within named witness, WILLIAM T. IACKMAN was by me first duly sworn to testify the truth, the whole truth and nothing but the truth in the cause aforesaid, that the testimony then given by him was by me mondal in terestment the protection of wind mission			
certify that the within named witness, WILLIAM T. JACKMAN was by me first duly sworn to testify the truth, the			
whole truth and nothing but the truth in the cause aforesaid, that the testimony then given by him was by me			
recorded in steretype in the presence of said winess, afterwards transcribed using computer-assisted transcription; and that the foregoing is a true and correct transcription of the testimony so given by him as			
ranscription; and that the foregoing is a true and correct transcription of the testimony so given by him as			
iforesaid.			
I do further certify that this deposition was taken			
I do further certify that this deposition was taken at the time and place in the foregoing caption specified, and was completed without adjournment.			
an was completed whereas abjournant.			
I do further certify that I am not a relative,			
I do further certify that I am not a relative, counsel or attorney of either party, or otherwise interested in the event of this action.			
IN WITNESS WHEREOF, I have hereunto set my hand and ffixed my scal of office at Akron, Ohio on this 15th day			
f December, 1997.			
MELISSA KARM, Stenographic Reporter and Notary Public for			
the State of Ohio.			
My commission expires November 29, 2000.			
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CondenseIt[™]

Ontario - production

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