STATE OF I	MAINE	
LINCOLN, ss. DOCKET NO. WISSC-CV-2022	2-32	SUPERIOR COURT Civil Action
TIMOTHY L. HARRINGTON, in his capacity as Trustee of the GFG 401K Trust,))))	
Plaintiff, vs.)))	
S.R. GRIFFIN CONSTRUCTION, INC.,)))	
Defendant.)	

DEPOSITION OF:

MICHAEL R. HUGHES

Taken before Lynne M. Morrison, Notary

Public in and for the State of Maine, pursuant
to notice, at the offices of Bopp & Guecia,

121 Main Street, Yarmouth, Maine, on

April 25, 2024, commencing at 1:05 p.m.

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		Page 2
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13	Also Present:	
14	Timothy L. Harrington, Plaintiff	
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16		
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1		INDEX	Page 3
2	WITNESS:	MICHAEL R. HUGHES PAGE:	
3	Examin	ation by Mr. Bopp: 6	
4			
5		EXHIBITS	
6	Exhibit No	. Description	Page
7	А	Notice to Take Deposition of Michael R. Hughes	12
8	1	Letter dated December 27, 2003	14
9	1-A	Sketch	31
10	2	Handwritten notes	94
11	2-A	Handwritten notes	98
12	3	Photograph	99
13	4	Qualifications of Consultant Michael R. Hughes	106
15	5	ISA Basic Tree Risk Assessment Form	108
16	6	Photograph	109
17	7	Photograph	113
18	8	Copy of photos	113
19	9	Photograph	115
20	10	Photograph	117
21	11	Photograph	120
23	12	Map	122
24	13	Deed	125
25	14	Official Zoning Map, Town of Edgecomb, Maine	125

1	R. Hugnes on 04/25	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Page 4
2		EXHIBITS	
	Exhibit No	. Description	Page
3	15	Map	125
4	16	Map	125
5	17	Closing Statement	125
7	18	Witness Subpoena for Central Maine Power Company	125
8	18-A	E-mail dated January 4, 2024	127
9	19	Photograph	129
10	20	State of Maine Vehicle Registration	130
11	21	Photographs	131
12	22	Photographs	133
13	23	Photographs	136
14	24	Photographs	137
15	25	Photograph	138
16	26	Photograph	141
17	27	Photograph	141
18	28	Photograph	143
19	29	Photograph	144
20	30	Preserving trees during construction pamphlet	on 155
22	31	Photograph	157
23	32	Photograph	161
24	33	Photograph	167
25	34	(Not introduced.)	

1			Page 5
1		EXHIBITS	
2	Exhibit No	. Description	Page
3	35	Development of the Root System of Northern Red Oak by Walter H.	
4		Lyford	171
5	36	Tree Roots diagram	172
6	37	Tree Roots diagram	177
7	37-A	Drawing	181
8	38	Reproduction Method Cost Compounding Technique sheet	181
9	39	Photograph	193
10	40	Photograph	196
11		included in transcripts.)	100
12	(EXIIIDICS		
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

1	Page 6
1	(The oath was administered by the
2	reporter.)
3	* * * *
4	STIPULATION
5	It is hereby agreed by and between the
6	parties that signature is not waived.
7	* * * *
8	TRANSCRIPT OF TESTIMONY
9	* * * *
10	MICHAEL R. HUGHES, having been duly sworn by the
11	Notary Public, was deposed and testified as
12	follows:
13	EXAMINATION
14	BY MR. BOPP:
15	Q. Good morning, Mr. Hughes.
16	A. Good morning.
17	Q. My name is Fred Bopp, and I represent the
18	plaintiff in this matter, Timothy Harrington
19	as Trustee of the GFG 401K Trust. And
20	Mr. Harrington is here with us today.
21	Can you please state your name for the
22	record and spell your last name.
23	A. Michael Raymond Hughes, H-U-G-H-E-S.
24	Q. Thank you.
25	So in this deposition, I'm going to be

Page 7 asking you questions, which you'll be 1 2 answering under oath. 3 You understand that's how that works? Mm-hmm. 4 Α. So what we'll need is verbal responses, like a 5 0. 6 yes or no. 7 Α. Yes. 8 Q. Because she's taking down a transcript. 9 And the other thing -- I'll go over some of the ground rules, but the other thing is we 10 should both be careful to wait until we finish 11 12 speaking before answering or asking a 13 question. That way, she has a nice clean 14 transcript. Is that all right? 15 16 Gotcha, yes. Α. 17 Have you ever been deposed before? 0. 18 Α. Yes. 19 How many times? 0. 20 Α. In the past, but it was in Colorado -- with my 21 business in Colorado. 22 So just one time before? Q. 23 Α. I believe it was one time, yeah. 24 And that was a situation where you were a 0.

25

party to a dispute?

Page 8 That was a tree issue involving the state 1 Α. expanding a road, and I was deposed on the --2 3 by the -- on the side of the -- representing the state in their case for a road widening 4 5 project. 6 So were you an expert in that matter? 0. 7 Α. Yes; mm-hmm. 8 Q. An expert on behalf of the State of Colorado? 9 Α. Yes, mm-hmm. 10 And what were the issues, generally, that you 0. 11 testified about? 12 Um, it was regarding the value of a line of Α. 13 trees that were required to remove to expand 14 an intersection in Boulder, Colorado. And was this in state court or federal court? 15 0. 16 That was in state court, I believe. Α. 17 0. Did it ever wind up going to trial? 18 Yes, it did. Α. So after the deposition, if you're able to 19 0. track down the docket number and the year for 20 21 that matter, that would be great. 22 Yes. Α. 23 Q. Thanks. So we've already started asking a few 24 25 questions, but I wanted to go over some of the

1		Page 9 ground rules today to make sure we are on the
2		same page. And as you can see, there's a
3		court reporter here who is transcribing
4		everything that we say, and so the ground
5		rules really are as follows: We already
6		covered one of them, which is finishing
7		questions and answers before either one of us
8		speaks again.
9		And you're fine with that, right?
10	A.	Yes.
11	Q.	Next one we've covered as well, is to provide
12		clear verbal responses out loud, rather than
13		nodding or saying mm-hmm.
14		And you're okay with that as well, right?
15	Α.	Yes.
16	Q.	If there's a question that you don't
17		understand or you need it to be clarified,
18		please let me know. If you don't let me know,
19		then I'll assume that you understand the
20		question, and it doesn't need to be clarified.
21		Is that fair?
22	Α.	Yes.
23	Q.	If you need a break at any point, just let me
24		know. I'm happy to accommodate breaks. The
25		only proviso there would be if we have a

1		$ ext{Page 10} ext{}$ question that's pending, if we can finish the
2		question before we take a break.
3		Does that sound fine?
4	Α.	Yes.
5	Q.	So you've been sworn in by the court reporter.
6		You understand that you're under oath,
7		and the deposition is being taken under the
8		penalty of perjury; is that correct?
9	Α.	Yes.
10	Q.	Is there any reason that would limit you from
11		providing truthful answers to my questions
12		today?
13	Α.	No.
14	Q.	You're not under any sort of stress or
15		physical or mental condition or taking any
16		medications or anything like that?
17	A.	No.
18	Q.	Is that fair to say?
19	A.	Yes, that's fair to say. And, no, I am not.
20	Q.	Okay. Thank you.
21		Okay. So just for the record, you're
22		being deposed as a testifying expert witness
23		of the defendant, and the defendant is SR
24		Griffin Construction, Inc.; is that correct?
25	Α.	Yes.

Page 11 And it's in connection with the case of 1 Q. 2 Timothy L. Harrington, in his capacity as Trustee of the GFG 401K Trust versus S.R. 3 Griffin Construction, Inc., Civil Action, 4 Docket number WISSC-CV-22-23, which is pending 5 in the Lincoln County Superior Court. 6 7 Is that your understanding as well? 8 Α. Yes. And did you bring any documents with you here 9 0. 10 today? 11 Just anything that has been provided by you Α. 12 and any e-mails that you've already got in 13 your possession. 14 So you have a folder there in front of you? 0. This is mostly everything that we 15 Α. Mm-hmm. 16 have to this point. So it's information 17 provided by Jon Liberman, and I believe you have everything here. 18 19 0. Okay. 20 Α. This is a very thin file. 21 All right. So there's a yellow manila folder 0. 22 inside of a green hanging folder. 23 Α. Mm-hmm. And then there are some additional items 24 0. 25 outside of the yellow folder; is that fair to

- Page 12

 1 say?

 2 A. Yes, this is everything that was sent to you.
 - 3 Q. Okay. All right. So let me hand you what
 - 4 I've marked as Exhibit A.
 - 5 MR. BOPP: And just a little sideline on
 - 6 the numbering.
 - 7 MR. LIBERMAN: Thank you?
 - 8 MR. BOPP: Welcome. There are other
 - 9 exhibits, and they're all numbered. And since
 - this one is the first one, I'm just calling it
 - 11 Exhibit A, and then we'll go to numbers after
 - 12 that.
 - 13 BY MR. BOPP:
 - 14 Q. So I'll ask you to review Exhibit A, and let
 - me know if you can identify that.
 - 16 A. Yes, I do. This is --
 - 17 Q. And what is that?
 - 18 A. This is the document that was sent to me -- a
 - 19 copy of the document sent to me; the 12-item
 - document, yes, on February 9; yup. Yes, I do
 - 21 recognize it.
 - 22 Q. You have seen that before?
 - 23 A. I have seen that.
 - 24 Q. And that is the Notice to Take Deposition of
 - 25 Michael R. Hughes; is that right?

Page 13 1 Α. Correct. And as you pointed out, it's dated February 9, 2 0. 3 2024; is that right? 4 Α. Correct. Did you review the list of requested 5 **Q.** documents, 1 through 12, in preparation for 6 7 this deposition? 8 Α. Yes. And your attorney produced documents to me in 9 0. 10 response to this notice; is that right? 11 Α. Yes. Okay. Are you -- are you familiar with the 12 **Q.** 13 documents that were produced in response to 14 this notice? Yes, I believe we did talk about that. 15 Α. 16 Okay. And so is it fair to say that you 0. 17 reviewed this notice -- I'm not asking you for 18 the substance of any conversations you had with your attorney, but you reviewed this 19 20 notice and then coordinated with your attorney 21 as far as responsive documents that you had in 22 response to these numbers 1 through 12? 23 Α. Yes. 24 Okay. Who has retained you to be an expert Q.

25

witness in this matter, Mr. Hughes?

- Page 14 1 Α. Attorney Jon Liberman. 2 And have you issued a bill for your services 0. 3 to date? 4 Α. I have not, no. Have you been paid anything for your services 5 **Q.** to date? 6 7 At this point, no. Α. So we'll need --8 0. MR. BOPP: I need one for you, right? 9 10 Can you guys share one -- either way. Tell me 11 where you want these. Not a ton of room. 12 So do you want to manage those? I'm 13 going to grab a stapler. All right. Yeah, 14 just Exhibit 1; just those first three pages. 15 MR. HARRINGTON: Okay. 16 MR. BOPP: Just those first three. Do 17 you want that to be part of 1? All right. 18 We'll make that part of 1. That's fine. BY MR. BOPP: 19 Okay. Mr. Hughes, I'm handing you what has 20 0. 21 been marked as Exhibit 1. I'm going to ask 22 you to please review that, and let me know if you can identify it. 23
- 24 A. Okay. And your question was?
- 25 Q. Have you seen that before?

- Page 15

 1 A. I -- this --
- THE DEPONENT: Did we have this at our
- 3 meeting? Was this at the meeting?
- 4 A. Okay. Yeah, correct. I have seen it before
- 5 at our meeting.
- 6 BY MR. BOPP:
- 7 Q. And again, I'm not asking you for the
- 8 substance of any communications that you've
- 9 had with Attorney Liberman.
- 10 So you met with him to review this; is
- 11 that fair to say?
- 12 A. Yes; mm-hmm.
- 13 Q. Just one time?
- 14 A. Just one time in his office. One time on
- 15 site. One time in his office.
- 16 Q. So let me just peel that apart.
- One time on site. Are you referring to
- the site visit where you looked at the tree
- 19 that's at issue in this lawsuit?
- 20 A. Correct.
- 21 Q. At that time, did you review -- let's just
- 22 call Exhibit 1 Expert Witness Designation, if
- that's okay.
- Is that all right?
- 25 A. Okav.

1	Q.	Page 16 At the site visit, did you review the Expert
2		Witness Designation?
3	Α.	During the site visit, no, we did not review
4		any paperwork on site that day.
5	Q.	Okay. So was it at a subsequent meeting that
6		you reviewed the Expert Witness Designation
7	Α.	Yes.
8	Q.	with Attorney Liberman?
9	Α.	Yes.
10	Q.	And there was just the one meeting?
11	A.	Yes.
12	Q.	Was there any back and forth after that about
13		here's a draft, here's an update, what's your
14		input?
		• • • •
15		MR. LIBERMAN: Hold on. I'm just going
		-
15		MR. LIBERMAN: Hold on. I'm just going
15 16		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking
15 16 17		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the
15 16 17 18		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the expert. So I'm going to object and instruct
15 16 17 18 19	ВҮ	MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the expert. So I'm going to object and instruct him not to answer that specific question.
15 16 17 18 19 20		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the expert. So I'm going to object and instruct him not to answer that specific question. MR. BOPP: Okay.
15 16 17 18 19 20 21		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the expert. So I'm going to object and instruct him not to answer that specific question. MR. BOPP: Okay. MR. BOPP:
15 16 17 18 19 20 21 22		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the expert. So I'm going to object and instruct him not to answer that specific question. MR. BOPP: Okay. MR. BOPP: So I'm not asking for the content of any
15 16 17 18 19 20 21 22 23		MR. LIBERMAN: Hold on. I'm just going to object to the extent that you're talking about communications between me and the expert. So I'm going to object and instruct him not to answer that specific question. MR. BOPP: Okay. MR. BOPP: So I'm not asking for the content of any communications. What I'm asking is whether

Page 16

Page 17 Expert Witness Designation. 1 2 Input about my being an expert witness? Α. 3 No, the input -- thank you for clarifying. Q. 4 Input about the contents of what is in this Exhibit 1. 5 Had we spoken about it; about the contents of 6 Α. 7 this paragraph right here? 8 Q. Sure. Let's do that. What I will testify? 9 Α. 10 0. Right. 11 Um, I believe so, yes. I believe we -- we Α. 12 would have had a discussion about that, yeah. 13 Okay. At the meeting and just at the meeting? 0. 14 We may have had a phone conversation about it. Α. 15 Actually, to tell you the truth, if we had had 16 this deposition at the end of March, I would have been a little bit clearer on that. 17 18 a little bit farther in the wake of things 19 here at this point. Everything is. 20 Q. Do you recall whether at the meeting you were 21 handed a draft of this designation or -- well, 22 let me just stop there. I -- I -- um, I -- I do not know if I was 23 Α. handed a draft of this at that meeting. Um, 24 25 because I believe I would have it in here, and

		Page 18
1		I don't believe I have it in here in my in
2		the folders that I have in front of me.
3	Q.	Do you have any clarifications, corrections,
4		supplements or additions to this designation
5		or is it complete and accurate as is?
6	Α.	Is it complete? It is a framework. It is a
7		framework. It's a summary.
8	Q.	Let me just ask each one.
9		Do you have any clarifications to it as
10		we sit here today?
11	Α.	I could, potentially, yeah. These are just
12		these are his digestion of what I had
13		provided. Um, they're his own words, as he
14		says here. As he covers here, they're the
15		words of the counsel. So they're within the
16		framework of what we had discussed of what
17		had been discussed.
18	Q.	Does anything in here need to be corrected?
19	Α.	I think one thing that needs to be clarified,
20		just so we're on the you know, on the same
21		page, is that Mr. Hughes will also testify
22		that he observed land surrounding the tree on
23		the same date. Any observations were made
24		from strictly from the location of the tree
25		itself.

1		Page 19 So no no further walking analysis was
2		done, aside from distance observations. I
3		don't want to for it to sound as if I I
4		was very cautious to I did not want to
5		trespass without Tim being there. So any
6		observations were made from a distance. They
7		were cursory.
8	Q.	Observations of the land?
9	Α.	Of the land, yes.
10	Q.	All right. And you have not prepared an
11		expert report; is that correct?
12	Α.	Correct.
13	Q.	Do you intend to prepare a report?
14	A.	That would be at the if the counsel, Jon
15		Liberman, requested it. What I would probably
16		want to do would be another site visit. That
17		would be very important. You can't really do
18		this type of thing without being up to date
19		with the conditions as they exist on this
20		date. I can't speak to December with a report
21		now very well. I'd want to refresh.
22	Q.	So you're saying that it would be important to
23		go back and do a site visit and look at the
24		tree again?
25	Α.	It would be essential.

		Page 20
1	Q.	And why would it be essential?
2	Α.	Again, because I'd be working at this point
3		in May almost May, I would be trying to
4		recall what I what was observed on December
5		19, which would be difficult. And I'd want to
6		refresh what I was seeing not from
7		photographs but from a site visit. That's the
8		way I work. I like to see things. I like to
9		be able to have them in front of me.
10		MR. BOPP: I'd like to go off the record
11		for a minute.
12		(Off the record.)
13	ВҮ	MR. BOPP:
14	Q.	Mr. Hughes, I'm just looking to clarify the
15		conversation that we just had.
16		And would it be fair to say that if you
17		were asked to prepare a report in this matter,
18		then you would want to go back and do another
19		site visit and look at the tree again; is that
20		fair to say?
21	Α.	Correct, yes.
22	Q.	And is it
23		(Cell phone vibrating.)
24	Α.	Sorry.
25	Q.	It's all right.

1		Page 21 Is it also fair to say that you are
2		prepared, if this matter goes to trial, to
3		testify on behalf of the defendant without
4		doing another site visit?
5	Α.	Say that again. Restate that, please.
6	Q.	Sure.
7		If this matter goes to trial, are you
8		prepared to provide your testimony on behalf
9		of the defendant without doing another site
10		visit?
11	A.	Um, I would say that's a tough question, but
12		since we had not discussed doing another site
13		visit, I suppose I would be out of line to
14		request one without moving forward. So up to
15		this point. So I would say yes.
16	Q.	Okay. In that other matter where you were an
17		expert witness in Colorado, did you prepare a
18		report in that matter?
19	A.	Yes.
20	Q.	And does it really just depend on what the
21		attorney requests that you do whether you
22		prepare a report or not?
23	Α.	Yes.
24	Q.	Did you reach any conclusions or form any
25		opinions in connection with this matter that

1		Page 22 are not listed in the expert designation?
	_	
2	Α.	Since that time, did I reach any conclusions
3		that I had reached at the time of our meeting?
4		I would no; no, I did not reach
5		conclusions is a tough word because it's
6		definitive, and this particular case is not
7		very definitive.
8	Q.	And why do you say that?
9	A.	We have very limited information available as
10		to tree history, very limited information
11		available as to site activities, times and
12		dates, equipment used to conduct those site
13		activities, maintenance of wires, site
14		activities therein, whereby utilities were
15		maintained. It's very weather activities
16		that have happened while the tree has been
17		there. It's very fluid. It's a very, very
18		fluid situation.
19	Q.	And does that make it challenging, then, for
20		you to do your work?
21	Α.	It makes it very difficult, yes.
22	Q.	And is it fair to say that that makes it
23		difficult, then, for you to conclude why the
24		tree is in the condition that it's in?
25	A.	Yes.

Page 23 And that's based on a combination of factors, 1 Q. 2 including the prior history of the tree? 3 Α. Yes. So referring still to Exhibit 1 in the 4 Q. subsection A, Subject Matter of Testimony, it 5 states, Mr. Hughes will testify that he 6 7 observed the tree that is the subject of 8 Plaintiff's Complaint during a site visit on December 19, 2023. 9 10 Is that accurate? It's the first 11 sentence of the second paragraph. 12 Α. Yes. 13 So you were there on December 19, 2023, for a 0. 14 site visit, correct? 15 Α. Yes, I believe that was the date, yes. 16 And that was the one and only site visit that 0. 17 you undertook with respect to the tree? 18 Α. Yes. And then it says, Mr. Hughes will also testify 19 **Q.** that he observed land surrounding the tree on 20 21 the same date. 22 Is that accurate? 23 Α. Yes. 24 At what time of day did you observe the -- I'm 0. 25 going to call it sometimes the legacy oak

Page 24 Just if we can agree that that's the 1 tree. 2 tree that is the subject --3 The subject, mm-hmm. Α. -- of this action. 4 Q. We can agree that legacy oak tree or the 5 6 tree refers to that? 7 Yes? 8 Α. Yes. That is what I've heard it's been 9 called, so I'll go with that for 10 identification purposes. 11 Q. Great. Thank you. 12 At what time of day did you observe the 13 legacy oak tree and land surrounding the tree? 14 It would have been approximately in the Α. morning hours. 10:00 in the morning, 15 16 approximately. And how long was your site visit in total? 17 0. Um, it was -- it was the morning. 18 It was Α. taken to -- let me see here. It would have 19 20 been the -- total time portal to portal for me 21 was the morning hours. 22 So maybe a couple of hours then? Q. Yeah, we were on site approximately --23 Α. 24 probably about two hours. 25 Did you take some pictures while you were on Q.

1		Page 25 site?
2	Α.	Yes.
3	Q.	How many pictures were taken?
4	Α.	Um, approximately I believe you guys
5		they were sent to you your office through
6		Jon, but I believe I will say 10.
7	Q.	10.
8		And of what were the pictures taken?
9	A.	The pictures were taken of the tree from
10		various angles, limited to the camera used,
11		which was a phone camera.
12	Q.	Your phone?
13	Α.	Yes.
14		So I think an important thing to point
15		out also is that I was not familiar with the
16		tree prior to seeing it for the first time for
17		the site visit. I've never driven down the
18		road. I'm not familiar with the road. So I
19		had never seen it in any other time of year in
20		any condition. So I didn't have the benefit,
21		I suppose, of seeing it, say, going to see
22		other people in the area or driving past.
23		So I didn't have that benefit of any
24		other experience with the tree. I don't know
25		if you were going to ask that question at some

- Page 26

 1 point, but I wanted to clarify that.
- 2 Q. So, for example, were there any leaves on the
- 3 tree at that time of year?
- 4 A. No.
- 5 Q. And are you the only one who took pictures
- 6 during the site visit?
- 7 A. Hmm. I -- I believe I'm the only one who took
- 8 pictures. I believe I am. I was not paying
- 9 attention to other people with their phones.
- 10 Q. And the pictures that you took, you said you
- 11 used your phone to take them?
- 12 A. Yes.
- 13 Q. And what make and model is your phone?
- 14 A. It's an iPhone 7.
- 15 Q. And are the images that you took that day
- 16 still on your phone?
- 17 A. Yes.
- 18 Q. How many people were on site during the site
- 19 visit?
- 20 A. Um, Attorney Jon Liberman, and I belive
- 21 Mr. Griffeth -- Griffin.
- 22 MR. LIBERMAN: Scott Griffin.
- 23 A. Scott Griffin, yes.
- 24 BY MR. BOPP:
- 25 O. So the three of you?

Michael R. Hughes on 04/25/2024 Page 27 1 Α. Yes. 2 What was the weather like the day of your site 0. 3 visit? It was sunny, clear, good conditions -- good 4 Α. visual conditions, no wind to speak of. 5 Ιt was a very good December day; very nice 6 7 December day. 8 Q. Do you recall whether there was snow on the 9 ground? 10 I don't believe there was snow on the ground. Α. 11 I can refer to the photographs to clarify 12 that, but I do not believe there was snow on 13 the ground. We could look at the photographs 14 as well that have been sent. And do you recall what the weather was like 15 Q. 16 the day before the site visit? That, I'm unsure, but it must have been clear. 17 Α. 18 There must have been no snow or rain the day 19 before. Do you recall on the day of the site visit 20 Q. 21 whether things were very muddy and wet? 22 Um, I don't believe so. And the reason I Α. 23 don't -- I don't believe so because there was 24 a van parked under the tree at the time, and

25

it was -- I don't think it was sinking into

Page 28 1 mud. 2 0. Do you know whose van that was? 3 I have no idea whose van it was. It was a Α. white panel van. 4 What was your overall impression of the tree 5 **Q.** during your site visit? 6 7 Um, my overall impression of the tree was -- I Α. 8 thought about, you know -- or Tim had 9 mentioned it was a legacy tree, which, to me, 10 says it's an important tree to somebody; and I 11 noted that upon my initial assessment, that it stood out from the other trees in the 12 13 surrounding area for its size. It seemed to 14 be larger than the forest surrounding it. 15 As I got closer, I noted that the -- it 16 had a pronounced dieback showing up in the top of the tree; dieback meaning that there would 17 18 be no foliage coming on that at any point in So it had been declining for some time. 19 20 As I got closer to the tree, I was able 21 to observe damage to the trunk of the tree on 22 the -- how will I say this -- the approach 23 road in, no damage on the far side of the road 24 where I suppose there's a turn-around coming 25 back.

		Page 29
1		THE DEPONENT: Is that correct, Tim?
2		MR. HARRINGTON: Can I say anything? Am
3		I allowed to say anything?
4		THE DEPONENT: I'm just wondering if it's
5		a through road. I just want to speak
6		correctly.
7	ВҮ	MR. BOPP:
8	Q.	He's saying south side.
9	Α.	Okay; okay. So the south side being the
10		approach side. That's the far side.
11		Okay. So I approached, I would say, from
12		the north. Didn't observe trunk damage, that
13		I can recall, until I moved over to the south
14		side of the tree. And at that point, I
15		observed, um well, if you'd like to take
16		the questioning from here, you're welcome.
17	Q.	It's fine for you to keep going.
18		What did you observe at that point?
19	Α.	There was pronounced damage to the south side
20		of the tree that was attempting to heal for
21		quite some time. And so it appeared to me, in
22		general I'm speaking in generalities
23		here from overall look, that this was a
24		tree that was attempting to fight back, so to
25		speak, to recover from injury and had a lot on

1		Page 30 its plate, so to speak.
2	Q.	Okay. And so when we're talking about the
3		south side, is that if you were to come off
4		of the road and go back behind the tree,
5		that's the south side that we're talking
6		about?
7	Α.	Um, if I understand I want to be clear
8		because I came off
9		MR. LIBERMAN: If you want to draw on
10		something, maybe he can give you a piece
11		MR. HARRINGTON: Can we take a break off
12		the record? Can we take a break off the
13		record?
14		MR. BOPP: Let him just finish this
15		question.
16		MR. HARRINGTON: All right.
17	A.	Again, I'm kind of working from memory here,
18		guys. The main road is over here. I'm just
19		going to say main road. I don't know what
20		road I came off of onto the road with the
21		tree. But I remember the road came up and
22		then turned away and the oak being right about
23		here. So I'm going to and, of course, this
24		is the access, access, and the wires.
25		But anyway, I'm referring to, I suppose,

Michael K. Hughes on 04/25/2024				
1	from what Tim Harrington had indicated, that			
2	this is north. This is the south side. This			
3	area in here was the area showing trunk damage			
4	on that side. The van for your previous			
5	question at the time, was located right			
6	here; right around there.			
7	So our observations everything that we			
8	did was located so that's an access road.			
9	I'm not sure if it goes out there or not or if			
10	it just goes around the tree. I can't			
11	remember. I believe it just went around. I			
12	do not believe there's a driveway up there. I			
13	can't remember that part; if there's a			
14	driveway heading into the woods here.			
15	But nonetheless, at this point here, this			
16	is the only area where we where I pretty			
17	much had any kind of observations of the			
18	surroundings. I was parked down here when I			
19	first arrived.			
20	MR. BOPP: So why don't we yeah, label			
21	that Exhibit 1-A, if that's all right.			
22	Did you want to take a break?			
23	MR. HARRINGTON: No, we got the north/			
24	south straight. That's all I want to make			
25	sure. That's it, north/south. That's			

Page 32 1 perfect. 2 Again, I want to be clear that it's easy 3 enough to clarify what is north, south, east, So I'm going off of, you know, what is 4 west. being said here in the room. But this road 5 coming in here, I'm assuming, we were coming 6 7 -- approaching from the north to the south. 8 So --BY MR. BOPP: 9 10 0. So you --11 That's an assumption that's easy enough to Α. 12 check on Google Earth or whatever to confirm 13 that. 14 All right. So let's go with the directions Ο. 15 that you have on your drawing there. We'll 16 assume they're correct. And you parked, then, below the tree, got 17 18 out of your vehicle, and walked towards it; is 19 that fair to say? 20 Α. Yes. 21 And walking towards it, you didn't see any 0. 22 damage or injury to the tree at that point? Um, I think the important point here is that 23 Α. in the morning light -- the morning light was 24 25 affording us a better opportunity at that

1		Page 33 point in time. It would have been north,
2		south, east. So the sun was right about
3		giving me an opportunity from that angle, and
4		it's easy enough to see in the photographs.
5		This was probably the best vantage point
6		for the upper part of the tree in this area
7		here where some of the photographs were taken
8		because the light was illuminating the top of
9		the tree, which is still up there 60 feet or
10		so.
11		This side I can make observations as
12		well, as far as dead wood dieback. But this
13		is probably where we spent a good amount of
14		time looking at that side of the tree.
15	Q.	So over near where the van was parked?
16	Α.	Correct.
17	Q.	And you had described the tree as having been
18		damaged or injured and attempting to recover
19		from that?
20	Α.	From what?
21	Q.	The damage or the injury.
22	Α.	It's well, what we were looking at with the
23		tree is what appears to me we were looking
24		at with the tree is contributing factors.
25		Whether the damage to the trunk was the result

		Page 34
1		of, um, this damage I'm sorry. Let me
2		reclarify that statement.
3		The dieback within the crown of the tree
4		would be contributed to by a combination of
5		factors; everything from potentially lightning
6		to this damage on the trunk which,
7		potentially, could have been caused by a
8		number of things compaction activities;
9		just a slew of things that this legacy oak was
10		having to deal with. It was having to deal
11		with a lot.
12	Q.	And the damage that you saw was bark had come
13		off of the tree or how would you describe the
14		damage?
15	A.	Um, bark was off the tree in that area. And
16		as I I'm trying to remember a little bit
17		here. I can refer to photographs.
18		THE DEPONENT: Do you have any of these
19		photographs?
20		MR. LIBERMAN: I didn't bring anything
21		with me.
22	Α.	Do you have any photographs?
23	ВҮ	MR. BOPP:
24	Q.	I do. We'll look at those.
25	Α.	Okay. Because I don't want to misspeak.

Wichael K. Hughes on 04/25/2024		
1		Page 35 Again, I'm drawing on December 19 on April 25.
2		But the damage was pronounced on that side of
3		the tree.
4	Q.	Okay. Would you agree that the tree is
5		comprised of a dominant oak and a lesser oak?
6	A.	The tree was comprised of a dominant oak and a
7		lesser oak? I normally never used that
8		terminology. I couldn't address that. That's
9		not terminology I would use.
10	Q.	Okay; fair enough. I'm trying to describe it,
11		but you're the expert.
12		Are there two trunks that make up the
13		tree; is that fair to say?
14	A.	Again, on memory here, there's I believe,
15		yeah, the tree did go up and have co-dominant
16		stems going up.
17	Q.	Okay. Meaning, that there were two, right?
18	Α.	Again, I can with the photographs in front
19		of me, I'd feel more comfortable making
20		statements. I don't want to be taken as
21		misspeaking.
22	Q.	Fair enough.
23		Did you take any measurements of any of
24		the trunks of the tree?
25	Α.	Not to my knowledge; no, I did not.

1	Q.	Page 36 Did you observe the canopy size of the tree?
2	Α.	Just from I did not use any analytical
3		tools to determine exactly what the height of
4		the tree was. I used my judgment to, you
5		know, put it up there somewhere in the height
6		that I had mentioned here of approximately 60
7		feet.
8	Q.	And did you observe that the canopy size was
9		balanced with the root structure?
10	A.	That would be impossible to assess because the
11		roots were not were, of course, not
12		visible; and whatever root structure is
13		potentially dinged or damaged, the tree could
14		be surviving on little or very little at this
15		point.
16		So to say whether the root crown balance
17		is adequate would be impossible to assess at
18		this point right now.
19	Q.	Is there a way to conduct some other tests
20		that you could assess the root crown balance?
21	Α.	No, not really. The reason I say that is that
22		there's a there's an attempt to find such
23		technology with sonic this and that that can
24		get into roots and understand what we are able
25		to understand up above to see below. But to

1		Page 37 my knowledge, there's nothing right now that
2		does that.
3	Q.	Did you observe any holes or ruts in the
4		ground near the tree?
5	Α.	Um, there were tire tracks, some a lot of
6		activity out there, including, you know,
7		unfortunately the van had you know, had its
8		own, you know, spots where you could tell
9		where the van had been.
10		So everything makes it's December, and
11		so it's difficult to say it was not deeply
12		rutted. I will say that, as far as what I
13		remember. Again, photographs photographs
14		were taken, which will more clarify that for
15		me.
16	Q.	And do you recall that those ruts or tire
17		tracks were on any particular side of the
18		tree?
19	A.	Um, there were ruts on this side, as I
20		remember. We're going to be talking here
21		about the north side of the tree; again,
22		assuming this is north. As I remember,
23		there's a road that has road base material,
24		seems like, in here. Off to the edge, we have
25		power lines running here, and the power lines

	14 114,	Page 38
1		are maintained, I suppose, by CMP.
2		But right along this edge, there was a
3		soft edge in here with oaks surrounding
4		oaks right through here, and it looked to me
5		like some tires went off the road here. I
6		believe I pointed that out to Jon at the time.
7		On the south side, it was more
8		generalized just movement. You could tell
9		that the ground my recollection was had
10		been you know, it was malleable, I suppose.
11	Q.	So, um, back to Exhibit 1-A. I'm just going
12		to read from that. The next sentence is
13		MR. LIBERMAN: Fred, you said Exhibit
14		1-A. Are you reading from Exhibit 1?
15		MR. BOPP: Exhibit 1, yeah. Sorry.
16		Thank you. 1-A is the hand-drawn map.
17	BY	MR. BOPP:
18	Q.	He will testify that, more likely than not,
19		the tree was already significantly damaged
20		before August of 2022 and was dying before
21		August of 2022.
22		Is that accurate?
23	Α.	Yes.
24	Q.	And what is the significance of August of
25		2022?

That was the date which was given to me at the 1 Α. 2 time when the activity by Griffin occurred, I 3 believe. And -- yeah, go ahead. 4 Q. That was the only date given to me at that 5 Α. time. 6 7 And when you say "given to you" --Q. 8 Α. By Jon Liberman. Verbally or in an e-mail or --9 0. 10 I'm going to say it was probably in an e-mail. Α. 11 So let's look. 12 I'm not seeing it in an e-mail, but it's 13 going to be a verbal relation of information. 14 Q. Okay. 15 Α. That may have come up at the point of the site 16 visit. Let me see. One moment here. Here we 17 are. 18 Okay. All right. I was told on the 12th 19 of March of this year that there was a correction. Because at the time of the site 20 visit, it was told to me --21 22 MR. LIBERMAN: Hold on a second. Hold I'm not sure how far you're going to go, 23 on. 24 but what I don't want is you launching into a 25 number of communications that you and I have

Page 39

1		Page 40 had because there are so perhaps you can
2		narrow your question down. But what I don't
3		want is him having an unlimited discussion of
4		communications that he and I have had.
5		So I don't know if you can narrow your
6		question for the witness.
7		MR. BOPP: Sure. Happy to do that.
8		MR. LIBERMAN: Thank you.
9		MR. BOPP: Sure.
10	ВҮ	MR. BOPP:
11	Q.	Was it your understanding that part of your
12		task was to determine, if you could, whether
13		events that happened in August of 2022
14		negatively impacted the health of the tree?
15	A.	My assignment, as it was, was to determine if
16		the the condition of the tree basically,
17		to understand provide an understanding what
18		the condition of this tree was and potentially
19		if activity by Griffin could have impacted it
20		further.
21	Q.	And what was your understanding of the
22		activity by Griffin?
23	Α.	My understanding was the project was happening
24		on the road, of which they were providing
25		materials for site construction nearby, and my

		2
1		Page 41 understanding was they were upon unloading
2		or coming in loaded I'm not sure came
3		down and used the area around the tree as a
4		turnaround to exit the road.
5	Q.	"They" being Mr. Griffin or his employees?
6	Α.	Correct.
7	Q.	And do you recall whether Mr. Griffin told you
8		that?
9	A.	Um, that would have been Jon Liberman.
10	Q.	So during the site visit, you mentioned
11		Mr. Griffin was there, right?
12	Α.	Mm-hmm.
13	Q.	Yes?
14	Α.	Yes. Correct, yes.
15	Q.	Was there any conversation at that time with
16		him where he said, Well, our trucks use this
17		area as a turnaround?
18	A.	Um, Scott Griffin, as I recall, did not really
19		contribute much information at that time. He
20		was he allowed me to look at the situation
21		and do my own analysis, and he didn't approach
22		me or attempt to, you know, feed information
23		to me. Any conversations as I recall he
24		had were with Attorney Jon Liberman.
25	Q.	And did you have any understanding as to the

1		types of trucks or other vehicles that had
2		used that area as a turnaround?
3	A.	That belonged to Griffin Construction?
4	Q.	Yes. Thank you for that.
5	A.	I had asked him or Jon that question, and I
6		was told empty tri-axle trucks as the trucks.
7		That would be the only vehicle that I was made
8		aware of that would have used that as a
9		turnaround, if, in fact, it happened.
10	Q.	And was there any understanding that you had
11		of how many times that area was used as a
12		turnaround by vehicles belonging to the
13		defendant?
14	A.	To my knowledge, I don't have a definitive
15		number of times that it that from 0 to
16		5. I have no idea.
17	Q.	So in the statement that we read from the
18		designation, it says that the tree was already
19		negatively impacted.
20		Do you what's your understanding of
21		the meaning of negatively impacted?
22	Α.	Um excuse me for saying um. This is a tree
23		that's been on site for a number of years.
24		It's hard to say exactly how many. That could
25		be found out, but it has had a lot of activity

		Page 42
1		Page 43 around it up to the date of August of '22.
2		As far as exactly what that damage was
3		that occurred, it's probably cumulative over
4		time, and I think I believe that the tree
5		was probably a pretty hardy tree to be able to
6		put up with it all.
7	Q.	Is it fair to say that the phrase "negatively
8		impacted" means that the tree was injured or
9		damaged in some way?
10	Α.	Correct.
11	Q.	And how could you tell the tree had been
12		negatively impacted?
13	Α.	The dieback in the crown was a big indicator
14		of negative impacts to use your term and
15		mine indicating that the tree had been
16		either struck by lightning in the past, it had
17		suffered root loss, surface area loss of
18		useable root crown where it's able to absorb
19		what it needs to survive; vehicles,
20		potentially, up against it damaging it.
21		All of these things roads being paved
22		over the top of it, equipment that was used to
23		pave the roads moving about. In fact, all of
24		these things of which I just simply don't
25		know the history of the tree enough to address

		Page 44
1		all of those. I'd be really reaching to do
2		that, and I don't really care for that.
3	Q.	So I'm trying to draw a distinction between
4		two things, both of which I think you covered
5		with your last answer. One is, looking at the
6		tree, what about what you saw could tell you
7		that it had been negatively impacted. That's
8		one question.
9		The other is, what were the events that
10		negatively impacted it, and I think excuse
11		me you covered the events in your last
12		answer by listing a number of things that
13		could have impacted it, and you don't know for
14		sure what impacted it.
15		Is that fair to say, in terms of the
16		events?
17	Α.	Yes. It would be hard to be definitive as to
18		exactly what impacted it.
19	Q.	Okay. So going back to the first part; in
20		other words, looking at the tree, how could
21		you tell it had been negatively impacted.
22		You mentioned the dieback of the crown;
23		is that fair?
24	Α.	That's fair.
25	Q.	What else about the tree itself, looking at

1		Page 45 it, told you that it had been negatively
2		impacted?
3	Α.	The loss of the cambium around the tree the
4		water-conducting tissues the scar at the
5		base of the tree. That is an obvious sign of
6		something, whether it be a bolt of lightning
7		coming down the trunk of the tree or a
8		snowplow hitting it, who knows; something
9		scrubbing up against it.
10		And at that point, we enter into this
11		very gray what caused it, I don't know.
12		That's impossible to know, at that point.
13	Q.	And just to go back because I'm not sure I
14		understood the word.
15		You said the loss of cambium or
16	A.	So to clarify and I apologize.
17	Q.	That's all right.
18	A.	The tree on a tree such as this tree here,
19		the legacy oak, we have a pretty thin layer of
20		growing tissue right at the edge, and that's
21		where the tree conducts its water. It
22		translocates its nutrients from the top to the
23		bottom, conducts its water from the bottom to
24		the top; and once that gets crushed or damaged
25		or dinged, it loses that pathway, that highway

		Page 46
1		of for water to be translocated, for
2		nutrients to be translocated down from the top
3		of the tree. So cambium is just underneath
4		the bark.
5	Q.	Was there any way for you to tell definitively
6		that the tree was dying before August of 2022?
7	Α.	I believe the key question here is, we have
8		dieback in the crown of the tree. And, again,
9		if we were standing there and looking at this
10		or at least had more up-to-date information to
11		work with, it'd be great. But dieback could
12		have occurred in the last 20 years, in the
13		last three years. It can be accumulation of
14		dieback in the crown of the tree. Some of the
15		deadwood that was up there, to be clear, had
16		been up there for some time. Some of it may
17		have been more recent.
18		And I believe in my notes there that I
19		mention response growth that had occurred in
20		the tree. So the more recent dieback was
21		showing some attempt of the tree to push back;
22		to reestablish some foliage, to my eye. Some
23		of the some of the other old dieback had
24		been there a long time.
25	Q.	And when you say the more recent dieback, do

1		Page 47 you have a sense of when that had occurred?
2	Α.	As I said, it could have occurred it could
3		be dieback from compaction, from trunk
4		damage, it's ongoing. It's going to happen
5		again this spring. It was occurring in a tree
6		such as this over time. So it's hard to say,
7		Well, what part occurred from 2022 August
8		of 2022.
9		So we're talking what is that 12
10		months in '23. So we're talking four months
11		in '22. So 16 months, roughly, from the time
12		that I looked at it 16 months prior. It
13		
		would have been difficult to say that part of
14		the deadwood was caused by, um, the situation,
15		say, that we're talking about.
16	Q.	And you didn't go ahead.
17	Α.	There are ways to do a closer assessment. I
18		want to make that clear. There's ways to
19		assess this tree up close with aerial lift.
20		It will more definitively tell us when certain
21		dieback occurred.
22		The tree, because it is a living tree
23		it is alive the information is there on the
24		tree to indicate, you know, when some of this
25		stuff happened.

		Page 48
:	1 Q.	And those tests aren't tests that you
2	2	performed, right?
	3 A.	No. I did not do anything invasive with the
4	4	tree.
	5 Q.	And this was the only time that you looked at
(6	the tree, right; the December 19, 2023, visit?
-	7 A.	Yes. I haven't seen it since.
8	B Q.	Were you provided with any pictures or videos
9	9	or anything else that would show you the
10	0	condition of the tree in August of 2022?
13	1 A.	Um, I was provided a picture I believe
12	2	somebody took of the tree that had leaves on
13	3	it, when it had leaves on it. I don't know
14	4	the date of that photograph. To my knowledge,
15	5	I don't have a date on that photograph. It
16	б	could have been 10 years ago. It could have
1	7	been three years ago. I have no way of
18	3	knowing.
19	9 Q.	Is that the only photograph that you recall
20	0	receiving of the prior condition of the tree?
2.	1 A.	Yes.
22	2 Q.	Prior to being engaged as an expert for the
23	3	defendant, did you know Scott Griffin?
24	4 A.	I knew of the company. I didn't know Scott.
25	5 Q.	Have you ever done any work or performed any

Page 49 services for S.R. Griffin Construction? 1 2 Α. No, not to my knowledge. 3 When you looked at the tree in December of 0. 4 2023 --5 MR. HARRINGTON: Oh, my bad. I need a 6 break. 7 MR. BOPP: Yeah. 8 BY MR. BOPP: 9 -- did it appear to you at that time that the 10 tree was dying? 11 Yes, I would say it was in decline. And Α. 12 that's probably the key word there that I 13 would prefer to use in the next couple 14 statements; was declining, over dying. 15 So the health of the tree was declining? 0. 16 In decline, correct. Α. 17 Q. Do trees that have been damaged manage to 18 repair themselves? 19 Are we talking broad or are we talking about Α. 20 the subject tree? 21 Broad; broadly speaking. 0. 22 "Do" would be the wrong word. Can, depending Α. upon the level of damage and the species and 23 24 the ongoing care. Can they? They can 25 sometimes recover.

Page 50 1 Q. How about roots that are damaged. 2 Can they some types recover from that 3 damage? That is probably more difficult, especially 4 Α. given oak. It's not quite so easy. 5 Not quite so easy for this tree or all oaks? 6 0. 7 Α. Again, now we're really -- we have to limit 8 the scope to what we're talking about. 9 Because if we're going to talk about Maryland oaks versus Maine oaks versus -- we'd have to 10 11 get into a whole discussion of what the care 12 and maintenance of the tree is, and there's 13 just -- this is a very fluid thing, and I hate 14 to put myself in a corner here discussing tree physiology and pathology when we're talking 15 16 about -- I'd rather stick to the subject tree. Notwithstanding that, as a general matter, is 17 Q. 18 it fair to say that if the roots of a tree are damaged, that in some situations, the tree is 19 20 able to repair that damage? 21 Not generally. Α. 22 Q. Okay. Your key word in that last part -- what you 23 Α. had just said, and I want point out for 24 25 clarification -- was "repair."

1	Q.	Page 51 And why is that key?
2	Α.	That's key because your if you have a in
3		this case, you guys are interested in crushed
4		roots or compaction, whatever. Attempting to
5		repair something that's been crushed is not
6		something that a tree is going to do to
7		survive.
8		What it's going to do is basically
9		produce other roots to make up for that loss,
10		but actually repairing roots is difficult for
11		a tree.
12	Q.	Okay. You mentioned that some of the bark had
13		fallen off of the tree.
14		Could you tell what the tree was
15		attempting to do as a response to that?
16	A.	There was indications, yeah yes, that the
17		tree had attempted to, um, recover from the
18		damage to the trunk.
19	Q.	How was it attempting to recover?
20	Α.	There was response growth around the wound
21		that was callusing in to attempt to cover some
22		of those areas that were damaged.
23	Q.	Were you able to tell how old the tree is?
24	A.	The age of the tree?
25	Q.	Yes.

1	Α.	Too difficult to assess with just from if
2		you would like my guesstimate, I can guess.
3		But, again, a tree that an oak of that
4		size, um, under some circumstances can be half
5		the age and same size as the oak that's there.
6		So it's difficult to say until you actually
7		test the tree to get an increment boring or
8		something similar to see. Then you can tell
9		exactly how old the tree was.
10		If I was to guess at it again,
11		December 19th is a long time ago but I'm
12		going to put the age of that tree at, say, 74
13		years.
14	Q.	And you had mentioned I'm sorry doing
15		what to definitively determine the age?
16	Α.	You would have to do an invasive boring into
17		the tree, and then you can extract the actual
18		growth rings. Involves putting a hole in the
19		tree, but then you'll be able to see the
20		growth rings. It would have to be very
21		relevant to do that; um, to wound the tree in
22		that way. So typically, it's not something
23		that's done very often because it's damage.
24	Q.	Is there a way to determine the age simply by
25		measuring the diameter of the trunk?

1	Α.	Page 53 Um, as I mentioned, an oak can be half the age
2		of this current tree and be of that size. If
3		it's under ideal growing conditions, it can be
4		that rapid.
5		But my guess is, again, if I had to if
6		I had to guess, I would say 74 years. It
7		could be as old as you know, if it's been
8		under tough growing conditions that whole
9		time, it can be 100 years. It's tough to say.
10		MR. BOPP: I'm going to take a break
11		here. I need to use the men's room.
12		(A break was taken.)
13	ВУ	MR. BOPP:
14	Q.	So sticking with Exhibit 1. Reading the next
15		line here I'll give you a chance to get
16		that Mr. Hughes will testify that he
17		observed response growth on the tree,
18		indicating injury 15 to 18 years ago, as well
19		as other signs of damage approximately 18 to
20		20 years ago.
21		Is that accurate?
22	Α.	Yes.
23	Q.	And what is response growth?
24	Α.	Response growth is the let's call it the
25		activation of the tree's attempts to recover.

1		Page 54
		So it's going to be pushing new water sprouts,
2		sucker sprouts, foliage up in the upper part
3		of the tree. It's going to be responding to
4		injury with callus tissue that I had spoken
5		about rolling over old wounds.
6		In the case I believe in the response
7		growth that I had mentioned there would be in
8		the upper canopy of the tree where I was
9		seeing some attempts of the tree to push out
10		small branches, releasing buds and sending new
11		growth out trying to recover.
12	Q.	And did you observe any other types of
13		response growth on the tree?
14	Α.	Wound wood response on the aforementioned
15		trunk damage.
16	Q.	So you said "wound wood"; wood, W-O-O-D?
17	Α.	W-O-U-N-D W-O-O-D.
18	Q.	And how were you able to determine that it
19		indicated injury 15 to 18 years ago?
20	Α.	The wound wood that was rolling in is able to
21		give indications of how long it's been at it,
22		so to speak; how many years it has been
23		attempting to roll in. So there's a way to
24		look at that and determine when that happened.
25		So it's able to annually commit only so

		Page 55
1		many resources to covering a wound. Each time
2		it will leave a definitive mark to say this is
3		as far as I could go this year. Next year, it
4		comes a little bit farther; comes a little bit
5		farther.
6		The decay of the trunk of the tree is
7		less reliable because that can occur much
8		quicker. The decay that was there was pretty
9		punky at the time and kind of like charcoaled,
10		and that doesn't give you a whole lot of
11		information. That can occur fairly quickly.
12		But more of the wound wood response helped me
13		out in that regard; letting me know what was
14		going on.
15	Q.	And was that based entirely on visual
16		observations?
17	Α.	That was, yes. There was no no attempt to
18		poke holes in the tree.
19	Q.	Did you study the root system to help you come
20		to that determination?
21	Α.	The root system, um, was unobservable. That
22		was outside of what was able to be assessed
23		under any circumstances. There are ways to do
24		it; but, again, it would be pretty invasive.
25		We could talk about it if you want to. I

Wichael R. Hugnes on 04/25/2024		
1		Page 56 don't know if you want me to go into all those
2		details.
3		MR. LIBERMAN: If he asks you about them,
4		you can discuss it.
5	ВУ	MR. BOPP:
6	Q.	Are you familiar with air spading?
7	Α.	That is the one of the methods I was just
8		going to talk about, yes. So, yes, I have an
9		air spade myself, yeah.
10	Q.	And you're qualified to perform air spading?
11	Α.	Correct.
12	Q.	And is it fair to say, generally speaking, air
13		spading involves directing pressurized air at
14		the soil around the roots to uncover the
15		roots?
16	Α.	Correct.
17	Q.	And you did not perform any air spading on the
18		root system of this tree, right?
19	Α.	No.
20	Q.	Would air spading help or allow you to
21		determine with greater accuracy the date or
22		dates of injury to the tree?
23	Α.	I would say, no, it wouldn't offer me that
24		benefit. It would benefit the tree if you
25		were talking about if we're talking about

1	Page 57 plant health care, how can we help this tree
2	out, absolutely; absolutely.
3	In a tree in this situation, to attempt
4	to use to use an air spade would probably
5	be the best thing that you could possibly do
6	for the tree to relieve compaction and so on
7	and so forth.
8	As far as analyzing, you would expose
9	roots; and in exposing the roots, you would
10	you'd be showing, Okay. Well, here's the
11	roots that have been damaged whenever. As far
12	as being able to date that would be difficult.
13	To really timestamp it would be very difficult
14	to do.
15	The reason for that is you're not going
16	to get the wound wood response that you're
17	seeing on the trunk down in the root system.
18	The tree is simply going to basically
19	abandon as I mentioned before the root
20	that was damaged. That decay moves on.
21	There's no indicator of, Oh, I was hurt on
22	this date, and I was damaged at this time. It
23	wouldn't help to determine that,
24	unfortunately.
25 Q.	Would air spading allow you to determine that

1		Page 58 the roots had been damaged?
2	Α.	If you're able to spend significant time
3		clearing off the area, um, you could determine
4		that the roots had been damaged, certainly.
5		And to really understand I would say to
6		really understand if your goal was to
7		analyze roots, then you'd want to go all the
8		way around the tree and expose everything;
9		really get in there and find out what was
10		damaged.
11		You know, of course, you have the road
12		here, so you can't do that, but certainly on
13		three-quarters of the tree. If you're going
14		to do one side, I would do it all; get in
15		there and see how many roots have been dinged
16		and damaged, if possible; if you can get that
17		deep. If it's too heavily compacted, it gets
18		pretty tedious to try and bore down into that.
19	Q.	So what's the major benefit, then, of
20		conducting air spading?
21	A.	Boy, I don't really see a heck of a lot of
22		benefit for the time cost involved of that.
23		Because, again, if you're going to do one
24		side, you need to do it all. But it's a
25		potential, but I don't think it's going to

1		Page 59 yield enough information definitive to August
2		of '22.
3	Q.	So it would allow you to see which roots had
4		been damaged; is that fair to say?
5	Α.	It should allow you to, if you can, again, get
6		deep enough in there; which, with road basing
7		situations, it can get like concrete down
8		there. So it's pretty tough to move that
9		stuff.
10	Q.	Would it allow you to determine how the roots
11		had been damaged?
12	Α.	By what type of whether it be a bulldozer
13		or paving equipment or a dump truck, what type
14		of dump truck, loaded, unloaded? Boy, I don't
15		believe it would give that kind of information
16		to you. You'd see damaged roots, you know.
17		You would not get much more from it than that.
18	Q.	If the roots had been damaged due to
19		compaction of the soil, would the air spading
20		allow you to see that type of damage?
21	A.	That type of damage? Um, probably. It would
22		help you to see the lack of small fibrous
23		roots in a given area. And I would imagine in
24		that case, in my professional judgment, you're
25		going to you're going to find that to be

1		Page 60 widespread on that particular tree. So
2	Q.	Widespread compaction damage?
3	Α.	I believe that you'd find you know, one
4		more useful tool, without going through all of
5		the all of the effort of air spading, would
6		be prior to air spading is using the
7		compaction tester, which is going to indicate
8		compacted soils.
9		It's a probe that goes in, and it has a
10		meter, and it will indicate that the soils
11		have been compacted on any place you put it.
12		It's a general guide for doing you really
13		need to air spade on a given tree. That would
14		be a far more efficient way of indicating
15		compacted soils.
16	Q.	So you mentioned the reasons that led you to
17		conclude that the tree indicated injury 15 to
18		18 years ago.
19		What led you to conclude that there were
20		other signs of damage approximately 18 to 20
21		years ago?
22	Α.	That statement there, I'm not clear on that at
23		all, to tell you the truth; the 15 to 18, then
24		18 to 20. I don't that would probably be
25		one that I'm not in favor of.

1	Q.	Page 61 Okay.
2	Α.	I don't understand that.
3	Q.	So just to clarify.
4		You're comfortable with the 15 to 18, but
5		not with the 18 to 20?
6	Α.	Yes, I would say so. And, again, any time
7		you're talking about something so specific
8		even there, I'm getting rather specific saying
9		15 to 18. That was in my observations of that
10		day. There's things you cannot see that
11		you're having to extrapolate a bit.
12		With any kind of wound wood, there's some
13		that you're not going to see. There's some
14		that might be where that came from in
15		conversation, but you're not going to see the
16		helpful little rings coming forward. Some
17		might be still below the bark that you didn't
18		get to see in the first year. So
19	Q.	All set with your answer?
20	Α.	Yes.
21	Q.	Okay. So continuing on, it says, Mr. Hughes
22		will testify that the area surrounding the
23		tree indicates activity which would likely
24		have damaged the tree well before August of
25		2022, including but not limited to logging

1		Page 62 activity, installation of road basing, gravel
2		and paving of a road in the immediate vicinity
3		of the tree.
4		Is that accurate?
5	Α.	Yes.
6	Q.	And what evidence do you have to support any
7		of those indicated activities?
8	Α.	The information that the road was paved from
9		gravel in 2011 was something that was provided
10		to me and, again, this is information
11		provided to me that McGee Logging had done
12		some logging in the area. I do not know what
13		area; whether it be on this side of the road
14		or that side of the road, but that some
15		logging activities had happened; that the road
16		had been realigned.
17		The presence of what appeared to me to be
18		road base going around the tree in order to
19		provide what, I don't know. Maybe it was for
20		personal use or whether it be for CMP to be
21		able to not get stuck when they needed to work
22		their power lines, I have no idea but there
23		appeared to be road base placed in the area
24		around the tree on those access points.
25		No analysis was ever done to prove

1		Page 63 whether or not that was road base from a pit.
2		But it appeared that there was an attempt to
3		firm up that road around the tree. It's
4		normal. Nothing unusual about that.
5	Q.	And do you know when each of these activities
6		occurred?
7	Α.	I have no idea.
8	Q.	And the road basing referring back to the
9		picture that you drew or the I guess we'll
10		call it a picture or your drawing
11	Α.	A sketch.
12	Q.	Sketch that's even better Exhibit 1-A,
13		where on that sketch did you see evidence of
14		installation of road basing?
15	Α.	It would have been I believe what you're
16		calling the north side of the tree to the west
17		side let me make this a little bit
18		easier and then from the west heading
19		south. It appeared it appeared that this
20		contained some materials that, in the past,
21		had been laid down to make it a drivable
22		surface.
23	Q.	And was any of the road basing done in the
24		area where you saw injury to the tree bark or
25		I should say strike that to the tree

1		Page 64 trunk?
2	Α.	I'm unclear on that. I don't know if the base
3		came very close to the trunk. I can if we
4		pull photographs out. As I recall, I believe
5		it was a little bit away from the trunk of the
6		tree. Um
7	Q.	So we have logging activity by you think by
8		McGee Logging, but you're not sure when that
9		happened; is that correct?
10	Α.	Correct.
11	Q.	And we've talked about the installation of
12		road basing.
13		How about the gravel and paving of a
14		road; is that different than from the road
15		basing that we talked about?
16	Α.	To my understanding, the road was realigned
17		well, I have a road realignment. I do not
18		know Tim would know this. I do not when
19		the road was realigned from wrapping around
20		the tree to passing on the east side of the
21		tree.
22		So the realignment the east side of the
23		tree, I do not know when that happened.
24	Q.	Okay.
25	Α.	But to my understanding this is purely my

understanding -- was the road was paved from 1 2 being a gravel road in 2011. So at that 3 point -- but it does not mean that it was realigned at the same time. It means it was 4 paved from gravel in 2011. 5 6 Again, not my information. That was 7 gathered by calling the road department. This 8 is information provided to me, just as far as, you know, can you tell me something about 9 10 what's going on here around this tree. 11 that was provided. 12 I did mention that -- again, not wanting 13 to trespass -- that if the woods had been 14 logged, if they had been cleared, potentially, you could do an assessment of the age of the 15 16 new trees to narrow the -- narrow the 17 information there a little bit to say, Okay, 18 well, these trees are 22 years old so in, whatever, 2000, this area was logged off or 32 19 years ago; whenever. Within the lifetime of 20 21 the tree. 22 My guess is within the lifetime of the tree of 74, 84, 94 years, that area has been 23 logged off, as the forest is pretty young 24 25 around it. Again, that's only saying the area

Page 65

		Page 66
1	had been logged.	Whether or not they used any

- of that area for their purposes, I, of course,
- 3 can't answer that.
- 4 Q. So on the sketch that you drew, the road that
- 5 you have labeled as main, M-A-I-N, do you know
- 6 what the name of that road is?
- 7 A. Um, I could look, if you'd like.
- 8 MR. HARRINGTON: River Road.
- 9 BY MR. BOPP:
- 10 Q. Would you agree that's River Road?
- 11 A. I believe so. That sounds right.
- 12 Q. And the road that you turned onto where you
- 13 said your car was parked --
- MR. HARRINGTON: Merry Island Road.
- 15 BY MR. BOPP:
- 16 O. Is that the Merry Island Road or can we agree
- 17 that's the Merry Island Road?
- 18 A. I'll agree to that.
- 19 Q. So the Merry Island Road, is that the one that
- 20 you received information had been a gravel
- 21 road that was paved in 2011?
- 22 A. To my understanding, that was -- that was what
- was given to me, yes.
- 24 Q. So you're not talking about the other areas
- 25 where you indicated roads going around the

1		Page 67 tree as those being paved, right?
2	Α.	Um, correct.
3	Q.	That's mostly dirt and grass there; is that
4		fair to say?
5	Α.	Is it okay for me to ask the question, have
6		you been on the site?
7	Q.	I haven't.
8	Α.	Okay. I'm sorry. The reason I'm asking is
9		just to see if you had had any
10		understanding of the layout. So, no
11	Q.	From pictures.
12	Α.	these are simply it appears to me and
13		again, I don't recall if the road extends into
14		the woods here as an access road in and out or
15		if this was simply a maintenance of CMP lines
16		that run here and here.
17		So my understanding of it, at the time of
18		the meeting, was the road used to wind around
19		the tree and was realigned. Whether or not
20		that occurred, I have no idea.
21		MR. HARRINGTON: I've got to take a break
22		and go to the bathroom. Sorry. It's old man
23		stuff.
24		MR. BOPP: No, I know. Just
25	Δ	As it exists do you want to stop right
	<i>r</i> .	TID IC CAIDED GO YOU WAITE CO DEOP LIGHT

1		Page 68 there?
2		MR. LIBERMAN: Why don't we wait until he
3		gets back.
4		MR. BOPP: Yeah, we'll wait until he gets
5		back.
6		(A break was taken.)
7	A.	It's not exact. This is not advanced Google
8		Earth, but I want to make sure we're
9		referring to directions, which makes me
10		nervous. I'd like to really really have a
11		better understanding of this is an exhibit,
12		and this is half-assed to be we need to
13		know exactly where north, south, east, west
14		is; and from my understanding of looking at
15		this, north is over here. North. This is,
16		again, not exact, but
17		So it would be any time that I've
18		mentioned the south side of the tree from
19		looking at Google Maps, it appears that that
20		is actually the east side of the tree. And so
21		my approach was more from the west on. But,
22		you know, we're we can assess this.
23		I just want to make sure if we keep
24		referring to directions and if it's showing up
25		in the transcript, we want to be closer. That

1		can all be done more efficiently on site or
2		through advanced Google Earth you can really
3		get it. But that appears it turns in a little
4		bit; a little bit.
5	ВҮ	MR. BOPP:
6	Q.	Okay. You're all set with that?
7	Α.	I am; I am.
8	Q.	So then the final sentence on the last
9		paragraph on page 1 of Exhibit 1 says,
10		Mr. Hughes will also testify that, based on
11		the information provided to him, it is not
12		possible to determine, on a more likely than
13		not basis, that activity in August of 2022
14		accelerated the decline of the tree or to what
15		degree such activity impacted the health of
16		the tree.
17		Is that accurate?
18	Α.	I would I would prefer that it say
19		Mr. Hughes will also testify that, based on
20		the information provided to him, it is not
21		possible to determine, on a more likely than
22		not basis, that activity in August of 2022
23		to what degree such activity impacted the
24		health of the tree, striking accelerated the
25		decline of the tree.

1	Q.	Page 70 And what is your reason for making that
2	_	change?
3	Α.	
4		accelerate decline. Um, in that in the
5		given situation of the subject tree, it's not
6		always impossible to do so if we're talking
7		about a healthy tree that suddenly is impacted
8		by construction.
9		Certainly, you can discuss whether or not
10		it accelerated decline, so it's not it's
11		more in the case of a tree that's already in
12		tough shape. Um, whether or not I don't
13		like the word "accelerated." Whether it
14		contributed, I can live with that. But
15		
		accelerated is tough to demonstrate or to
16	•	pinpoint.
17	Q.	So would you agree that, based on the
18		information provided to you, that activity in
19		August of 2022 contributed to the decline of
20		the tree?
21		MR. LIBERMAN: Object to form. You can
22		answer.
23	Α.	I do not know since I do not know exactly
24		what the method of impact or the number of
25		impacts, I do not have any information

Page 71 regarding that, I can't answer that. 1 2. BY MR. BOPP: 3 Well, let's peel that apart a little bit. Ιt says, Based on the information provided to 4 him. 5 So what does that refer to? 6 7 Based on that, um -- at the time when I met on Α. 8 site, Scott Griffin was unsure if they had 9 used that as a turnaround at all. At the time 10 we met, he did not emphasize it. He didn't go 11 overboard with it, but he was not sure if --12 he had not spoken to his drivers yet who were 13 there on that site. 14 So I was simply looking at general impact of the tree from any number of vehicles, 15 16 including the van sitting there, on the tree. 17 Everything contributes to compaction; 18 everything. Was any information provided to you other than 19 0. 20 what was provided to you during the site 21 visit? 22 Since that time? Α. 23 Q. No, prior to. 24 Oh, prior to my site visit? Α. 25 Right. To start with, prior to. Ο.

1		Page 72 MR. LIBERMAN: Are you including in that
2		the documents that you had been provided as
3		part of his file?
4		MR. BOPP: Correct, right.
5	ВҮ	MR. BOPP:
6	Q.	I'm just trying to pin down based on the
7		information provided to him, just trying to
8		pin down what information what that means.
9		What information was provided to you either
10		prior to your site visit, during the site
11		visit, after the site visit.
12	Α.	Sure.
13	Q.	Prior to this being written this being the
14		expert designation.
15	Α.	As I recall, there was concern that if Griffin
16		Construction had used it as a turnaround, that
17		could this, would this, did this impact the
18		health of the tree.
19	Q.	And if they had used it as a turnaround, is it
20		fair to say that doing so would have
21		contributed to the decline of the tree?
22	Α.	Anything that anything that this tree is
23		currently going through and did go through
24		would contribute to decline, certainly. To
25		that end, I did ask if you were to turn a

		Page 73
1		truck in this area, where would you turn it,
2		given the road, and I did was able to get
3		an answer on that.
4		And so when the key word here is
5		"turning around," since the road wraps around
6		the tree, you would it sounds a bit like
7		you're driving around the tree. He answered
8		definitively that he would have only used
9		if they have had done it, only what would be
10		now what we're looking at here is more the
11		east side of the tree because the road angles
12		away, and he'd back in go if he were to do
13		it I don't know why they would do it. I
14		don't but this would be the only way it
15		would be done because of the angles. The
16		angles were all wrong to be able to get a
17		truck around the tree.
18	Q.	And if a tree strike that.
19		If a truck had backed in near the tree on
20		the east side, as you have it in your sketch,
21		and then pulled back out to head down Merry
22		Island Road in the other direction, would that
23		have compacted the soil around the tree?
24	A.	Yes.
25	Q.	And given strike that.

1		Page 74 Do you have any understanding as to the
2		general size or weight of the trucks that
3		Griffin was using for that particular project?
4	Α.	I did ask that question because I wanted to
5		know, and since the trucks would be have
6		already, um he answered empty tri-axle,
7		which is a Dugas-style, you know, dump truck;
8		empty an empty weight tri-axle. I'm not
9		sure exactly what they weigh. That would be a
10		better question for Scott Dugas, or somebody
11		like that, to gain that information.
12	Q.	Was there any discussion that the tri-axle
13		would come loaded with whatever it was
14		carrying, turn up Merry Island Road, go to the
15		project, which was located further down Merry
16		Island Road from the tree, drop off whatever
17		materials it was using, and then come back
18		somehow, and that's why it would be empty?
19		Maybe I packed too much into that.
20		MR. LIBERMAN: I'm going to object to
21		form because I'm not sure what further down
22		what direction we're talking about.
23	Α.	My understanding was off of River Road, the
24		project was in this direction from the tree.
25	ВҮ	MR. BOPP:

1	Q.	Page 75 In this direction on your sketch, being
2		northwest?
3	Α.	From where my vehicle was parked, my
4		understanding is the project was this is, I
5		believe, again, a turnaround up here or
6		something down at this end. So the project
7		was on the to the west/northwest side of
8		west side of the tree down this way.
9		So I don't I don't know. These are
10		outside my scope.
11		MR. LIBERMAN: Are you saying the project
12		was closer to River Road?
13		THE DEPONENT: That was my understanding
14		at the time that it was up here. After all,
15		this is the direction of access. If the
16		project were out here, why would you be doing
17		any turning right here?
18		Again, this is outside my scope, but
19	ВҮ	MR. BOPP:
20	Q.	So your understanding, just using the updated
21		directions on your sketch, is that a truck
22		a tri-axle loaded would come down River Road
23		going from north to west, would pass Merry
24		Island Road, and that the project it was going
25		to was located further down further down

1		Page 76 river road?
2	Α.	Your client would know that. He knows what
3		MR. HARRINGTON: That's not right.
4	Α.	I don't want to muddy this whole thing up.
5		MR. BOPP:
6		All right. We'll move along.
7	~	So assuming that a tri-axle backed in
8		near the tree, um, and that compacted the
9		soil, is it also fair to assume that that
10		would damage the tree roots?
11	Α.	
12	71.	is what is the composition of the material
13		that's going around the tree, first of all.
14		Is it a driving surface that was put in there.
15		That's why I pointed out over here where I
16		have no idea who, but tires went off the road.
17		As soon as they went off the edge of the road
18		base what appears to be road base on
19		this side of the tree, the west side, they
20		sank. They were sunk in. There were tire
21		tracks sunk in over here well away from the
22		area we're talking about.
23		So, yes, I'm going to assume that there
24		is a road basing material there that would
25		is designed to support vehicles. As soon as

		Page 77
1		you leave road base and you get onto ground
2		here in Maine, yes, you're going to crush.
3		You're going to impact roots, more than
4		likely.
5	Q.	Okay. So the statement that we read from
6		that I read from the designation included the
7		phrase "on a more likely than not basis,"
8		correct?
9	Α.	That was words that Jon Liberman placed in
10		there.
11	Q.	Okay. And when you make determinations in
12		your area of expertise, do you typically make
13		them on a more likely than not basis?
14	Α.	That's not language that I typically use.
15	Q.	What language would you typically use?
16	Α.	I stay away from typically, I don't want to
17		on a more likely than not is rather kind of
18		a pedestrian way of approaching things; but in
19		a summary, it's, I guess, acceptable. But
20		it's not I don't ever say, Well, on a more
21		likely than not basis, I can tell you what's
22		wrong with this tree. On any given situation,
23		I don't normally say that. That's moving
24		towards being very definitive. That's being
25		very sure of, you know, your findings.

1		Page 78 At least given the time I had to assess
2		this tree the time we spent, I should say,
3		assessing the tree, I couldn't be definitive
4		on what on what is here.
5	Q.	So is it fair to say you couldn't be
6		definitive one way or the other?
7	Α.	On
8		MR. LIBERMAN: Object to form.
9	Α.	Yeah, I'm getting twisted up in this a little
10		bit. Because as I have stated already, the
11		tree is there. It's providing the
12		information, and the tree has given
13		information to indicate when various damages,
14		at least spatially over time, has occurred to
15		it. The site gives you information as far as,
16		well, what has been done on the site over a
17		space of time. That's that's what we have
18		to work with. That's what's more definitive.
19		Yes, the road went in not in 2011. Maybe
20		it went in in 2009. That's definitive. When
21		was road base put in; was road base in?
22		That's definitive. Those are definitive
23		things, of which we don't have any information
24		on.
25		So when was the site logged; where did

		Page 79
1		those guys park their equipment? I don't
2		know. But it would be definitive to know some
3		of that information. But aside from that, the
4		tree does give me an indication of when some
5		of the activities occurred.
6	ВҮ	MR. BOPP:
7	Q.	So is it fair to say that using the phrase
8		that's in there, "activity in August of 2022"
9		is it fair to say that the activity in
10		August of 2022 may have contributed to the
11		decline of the tree?
12		Is it fair to say that?
13	Α.	No.
14		MR. LIBERMAN: Object to form. Answer,
15		if you can.
16	Α.	No.
17	ВҮ	MR. BOPP:
18	Q.	So what you're saying is there's no possible
19		way that the activity in August of 2022
20		contributed to the decline of the tree?
21	Α.	Because I don't know I don't have
22		definitive information of what happened in
23		August of 2022. I have no no again,
24		this is a very busy area of the road, very
25		busy area that's had a lot of activity on it.

	•	Page 80
1		So I was kind of working from a disadvantage
2		that I know no history.
3		So if it were a tree on Main Street in
4		Yarmouth here where definitely trucks backed
5		on in August of 2022, that's definitive.
6		Could I answer definitively to that? You bet.
7		In this situation here, I don't know, A,
8		if they had backed trucks in. There's no
9		information to that effect. Um, and then who
10		may have been backing into the tree a month
11		before that or a month after that or a day
12		after that. That's the limitations. That's
13		the limiting conditions of which I'm working;
14		assumptions and limiting conditions.
15		So I'm on really as we get into these
16		types of questions, I'm on thin ice because I
17		don't have enough definitive information
18		leading to the actual August of '22.
19	Q.	So is it fair to say you can't determine
20		either way then whether activities in August
21		of 2022 contributed to a decline in the health
22		of the tree?
23	Α.	Correct.
24	Q.	So at the top of page 2 of Exhibit 1, I'll
25		read what it says there. Mr. Hughes reserves

1		Page 81 the right to provide additional opinions
2		following the receipt of additional material.
3		Do you see that?
4	Α.	Mm-hmm. Yes.
5	Q.	And that's accurate?
6	Α.	Yes.
7	Q.	After the date of this designation, which is
8		December 27, 2023, did you receive any
9		additional material?
10	Α.	I do not believe I did.
11	Q.	Okay. And so it would follow that you have
12		not provided any additional opinions; is that
13		right?
14	Α.	Correct.
15	Q.	In the final paragraph on that page, it
16		indicates that counsel reserves for Mr. Hughes
17		the right to correct, clarify or expound upon
18		the subject matter on which he will testify
19		and/or the substance of the facts and opinions
20		to which he is expected to testify, as
21		identified herein.
22		Is that accurate?
23		MR. LIBERMAN: Just objection to form. I
24		think you had read, Counsel reserves the right
25		to correct, amend or alter, and what's on the

		D 04
1		Page 82 exhibit is supplement, amend or alter, if I'm
2		looking at the right part.
3		MR. BOPP: I was one sentence ahead of
4		that or just before that. Counsel reserves
5		for Mr. Hughes the right to correct, clarify
6		or expound.
7		MR. LIBERMAN: I see it.
8	BY	MR. BOPP:
9	Q.	Do you see that sentence?
10	Α.	Yes; yes.
11	Q.	And I read that accurately?
12	Α.	Yes.
13	Q.	Since the date of this designation, have you
14		corrected, clarified or expounded upon
15		anything in this designation?
16	A.	Not to my knowledge.
17	Q.	And the final sentence says, Counsel further
18		reserves for Mr. Hughes the right to
19		supplement, amend or alter his opinions as
20		identified herein upon receipt of additional
21		information in the course of discovery or
22		otherwise.
23		Is that accurate?
24	Α.	Where's that?
25	Q.	The final sentence.

- Page 83

 1 A. Oh, I'm sorry. You turned the page.
- 2 Q. Yeah, sorry.
- 3 A. Yes, that's accurate.
- 4 Q. And I think we already covered this, but just
- 5 for completeness sake.
- 6 Have you received any additional
- 7 information along the lines that this sentence
- 8 refers to?
- 9 A. No, not that I know of.
- 10 Q. So you haven't then supplemented, amended or
- 11 altered your opinions as identified --
- 12 A. Correct.
- 13 Q. -- herein?
- 14 A. Correct.
- 15 Q. Other than, I guess we should say, the one
- 16 change that you made that we talked about
- 17 earlier?
- 18 A. Yes.
- 19 O. So I quess just turning to the final page of
- 20 Exhibit 1, which is -- looks like your fee
- 21 schedule?
- 22 A. Mm-hmm.
- 23 Q. And that is your fee schedule?
- 24 A. Mm-hmm. Yes, it is.
- 25 O. Okay. Thanks?

Page 84 Sorry about that. 1 Α. No worries. 2 0. I guess why don't we call it -- it 3 includes your fee schedule, but it looks like 4 it's a Proposal; is that fair to say? 5 6 Α. Yes. 7 And prior to this Proposal, how many tree Q. 8 valuations had you performed? Over 36 years, that's hard to say, 9 Α. 10 unfortunately. A lot, yeah. And is there a difference between a tree 11 Q. 12 valuation and a tree appraisal? 13 A tree appraisal is -- you're attempting to Α. 14 place a value -- a dollar value on a given situation in an appraisal. An evaluation 15 16 you're normally -- it can be any number of 17 things that people wish to extrapolate or extract, rather, from the tree or the site. 18 19 And have you performed a number of tree 0. 20 appraisals as well? 21 Yes, I do tree appraisals. Α. 22 Up towards the top of this proposal, one of Q. your qualifications says Board-Certified 23 Master Arborist, in parentheses ISA. 24 25 Do you see that?

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

- Michael R. Hughes on 04/25/2024 Page 85 1 Α. Correct. What does ISA stand for? 2 0. 3 International Society of Arboriculture. Α. Are you familiar with the ISA Tree Risk 4 Q. 5 Assessment? 6 Α. Yes. 7 Q. And on how many trees have you performed that 8 risk assessment? 9 That specific risk assessment? Α. 10 0. Right. 11 Utilizing the ISA form? Α. 12 0. Right. 13 That's the key. A dozen, utilizing the form. Α. 14 So you're familiar with the ISA Basic Tree 0. Risk Assessment Form? 15 16 Yeah, I've been re-qualified three times in Α. 17 that. I was among the first to be tree risk 18 assessment qualified. So it's my third
 - And that's listed as one of your 20 Q.

go-round with that.

- 21 qualifications in the upper right-hand corner
- 22 on the proposal, right?
- 23 Α. Correct.

19

- And when did you first earn your ISA -- is it 24 Q.
- 25 called TRAO credential or T-R-A-O? I don't

Page 86 1 know how you pronounce that? 2 I believe that was 2008. Α. 3 Is it TRAO or T-R-A-O? 0. TRAQ. 4 Α. 5 Q. 2008? 6 Α. Yeah. 7 So you have to renew it every so often? Q. 8 Α. Let me just think about this. So five years 9 per -- I take that back. That was the -- TRAO was -- this is the third, so it would be 10 10 11 years prior. 12 I apologize. 2014 is when TRAO started. 13 And that has to be renewed every five years? 0. 14 Every five years. Because I just renewed Α. 15 again; so, yes. And that's moving forward 16 another five years. That's why I was going backwards. 17 18 Okav. Did you use the ISA Basic Tree Risk Ο. Assessment Form in evaluating this tree in 19 this matter? 20 21 Α. No. 22 And why did you not use that? Q. Because that was outside the scope of what I 23 Α. 24 was -- my assignment. It was a tree health 25 evaluation. I evaluate the health of the

		Page 87
1		tree, determine whether or not impact
2		occurred, blah, blah.
3		This was not a tree risk assessment, per
4		se, which is quite often the case with, you
5		know, using the TRAQ form and it is a
6		form it is about the site risk, so
7	Q.	And what is the if you use the form, what
8		are the results of that of using the form?
9		What do they tell you about the tree?
10	Α.	Um, the Tree Risk Assessment Form will tell
11		you given given the site and the use of the
12		site and the occupancy of the site, what is
13		the risk of the tree to that site, given
14		different situations such as the road, the
15		pedestrian traffic, whatever.
16		So what it will give you is a very kind
17		of vanilla matrix formula that you wash it
18		through; and it will say, What's the
19		possibility of this tree what are the
20		likelihood, I should say, is the key word
21		of the tree failing in the crown, in the
22		roots, in the trunk, given the occupancy of
23		that site.
24		So you get an answer back, and it would
25		say, Somewhat probable, somewhat possible,

1		Page 88 imminent; this type of thing.
2	Q.	So it's a way to evaluate the health of the
3		tree; is that fair to say?
4	Α.	You're giving yes, you're giving an overall
5		you're really approaching the tree more
6		from a risk assessment. You're identifying
7		potential risk. So okay.
8		So to give you an example, if I was to
9		walk in there thinking tree risk assessment,
10		so the dead wood that's up in the top of the
11		tree the big decline, the big limbs that
12		are hanging over the road that are dead, those
13		would be jumping out as this tree has high
14		potential for risk. Then you wash it through
15		to, Well, how often do people walk up this
16		road; how often do they bike; do they camp
17		underneath this tree; how often do cars pass
18		by.
19		And quite often, in the risk assessment,
20		what the occupancy has a large effect on
21		what that end result is going to be. So you
22		might say, Oh, my goodness. This tree is very
23		it's very likely to fail. Boy, there's
24		some scary stuff up here. If we're talking
25		about where the kids walk down from Yarmouth

		Page 89
1		High School, the tree is rating very high for
2		risk. If you're talking about Merry Island
3		Road in the middle of Edgecomb, all of a
4		sudden, the tree risk can become very vanilla;
5		likely to cause you know, cause damage to
6		persons, vehicles relatively low because
7		there's relatively few people out there.
8		So that's where the tree risk assessment
9		the newer ones with the TRAQ form take into
10		account not what's the tree showing you, but
11		how could it impact the surrounding
12		environment of kids, cars, pedestrians,
13		buildings.
14		And so out there on Merry Island Road,
15		it's the tree suddenly becomes less of a
16		risk factor than sitting over here on Elm
17		Street.
18	Q.	So is it fair to say that the risk that is
19		involved in that assessment form is the risk
20		of the tree impacting people, vehicles, other
21		things around it; is that fair to say?
22	Α.	Where okay. Again, I'm not going to state
23		ISA language exactly correct, but risk is
24		purely they had to in forming the TRAQ
25		program, they had to do away with the previous

		P 00
1		Page 90 older ways of doing risk, which was a number
2		system, and they moved into more of a they
3		had to look at what the American Standards
4		Institute and places like that say there's no
5		risk if there's no damage. There's no risk if
6		there's no people involved. There's no risk
7		if there's no cars involved or there's low
8		risk if there's only occasional cars or people
9		or buildings involved.
10		So, again, with the new program, that is
11		what the tree out on Merry Island Road,
12		whatever. It's an old declining oak, but
13		there's very few few people around or they
14		pass by while taking their morning walk at 10
15		in the morning, and nobody else is on the road
16		for the rest of the day; this type of thing.
17		So occupancy is everything with the TRAQ
18		program.
19	Q.	And so for my mind, what I'm trying to
20		distinguish between and I may not be
21		phrasing this right is external versus
22		internal risk.
23		And what I mean by that is, this
24		assessment form is not a measure of the risk
25		that the tree itself is failing, dying, in

1		Page 91 poor health.
2	Α.	Correct.
3	Q.	That's fair to say?
4	Α.	Yes.
5	Q.	Okay.
6	Α.	But to point that out, a tree risk assessment
7		can always be done. That can always be done.
8		And if you'd like to have it done, it can be
9		done. But really, a tree health evaluation
10		approaches the tree from, you know, what has
11		happened to you, what information can you give
12		me to help me determine what condition you're
13		in; not whether or not you're going to hurt
14		somebody. It's about the tree's health and
15		how it's been impacted. And that's a key
16		differentiation.
17		Once you get into the tree risk
18		assessment, it kind of goes, you know what;
19		it's out in the middle of a country road;
20		whatever.
21		MR. HARRINGTON: Okay. Can we move on?
22		I mean, we're on Exhibit 1, okay; and, you
23		know, we're talking you know, we got 38
24		exhibits. I'm hungry now. I mean, come on.
25		Can we move on? We don't need Exhibit 2.

1	
1	Page 92 We've answered everything in Exhibit 2, so we
2	got to move forward.
3	MR. BOPP: Yes, we will.
4	MR. HARRINGTON: I mean, do you guys
5	agree; everybody?
6	MR. BOPP: So the way it works is, I'm
7	conducting the deposition.
8	MR. HARRINGTON: That's correct, but I'm
9	getting hungry.
10	MR. BOPP: I get it. We're going to move
11	on to a lunch break in a little bit. If you
12	could be patient, that would be great.
13	BY MR. BOPP:
14	Q. I just want to circle back to what you said.
15	Were you drawing a distinction between a
16	different type of assessment of the tree
17	
	versus this ISA Tree Risk Assessment? Because
18	you said something along the lines we could
18	you said something along the lines we could
18 19	you said something along the lines we could read it back, but maybe you remember what you
18 19 20	you said something along the lines we could read it back, but maybe you remember what you said something along the lines of
18 19 20 21	you said something along the lines we could read it back, but maybe you remember what you said something along the lines of performing an assessment of the health of the
18 19 20 21 22	you said something along the lines we could read it back, but maybe you remember what you said something along the lines of performing an assessment of the health of the tree.

		D 02
1		form that you fill out for a tree health
2		evaluation. There's no set ISA form that you
3		follow. That is where the ISA says, Hey, this
4		is where your qualifications come into play.
5		Are you a normal certified arborist; are you
6		not a certified arborist; are you a board
7		certified, there's ISA, within there are
8		certified arborists, of which I became one
9		back in the early '90s. My number is 0108, so
10		I was among the first. There's now 35,000 in
11		the world; somewhere in that neighborhood.
12		But then they created board
13		certification, of which two percent of
14		certified arborists are actually board
15		certified. So that was back in 2008 that I
16		I believe 2008 I got the board certification.
17		Then there's consulting arborist end of
18		things.
19	Q.	In this particular situation, were you asked
20		to perform a valuation or an appraisal of the
21		tree?
22	Α.	An evaluation.
23	Q.	Okay. So I said an valuation I'm sorry;
24		not an a valuation or appraisal.
25	A.	No.

Michael R. Hughes on 04/25/2024		
1	Q.	Page 94 No?
2	A.	I was not asked to provide a valuation of the
3		tree or an appraisal or the tree.
4	Q.	You were asked to provide an evaluation of the
5		health of the tree; is that fair to say?
6	A.	Correct.
7	Q.	Okay. All right. Let's take a look at
8		Exhibit 2, which we have referred to
9		previously.
10		And you've seen Exhibit 2 before,
11		correct?
12	A.	Yes; mm-hmm.
13	Q.	And what is Exhibit 2?
14	A.	Those are my notes that were taken at the time
15		of our meeting.
16	Q.	And the phone number at the top, what does
17		that represent?
18		THE DEPONENT: Can you help me out?
19		MR. LIBERMAN: If you don't mind me
20		chiming in, that's my phone number.
21		MR. BOPP: Okay. Good enough.
22	BY	MR. BOPP:
23	Q.	How about the time, 9:00 to 11:15?
24	A.	On site time, right there.
	_	

Q.

25

I guess -- so this is in your handwriting?

- Page 95
 1 A. It is.
- 1 A. IC 15.
- 2 Q. And when were these notes taken?
- 3 A. While -- right there in the moment in that --
- 4 during -- between 9 and 11:15 a.m.
- 5 Q. So these notes were taken during the site
- 6 visit?
- 7 A. Correct.
- 8 Q. In December of 2023?
- 9 A. Correct.
- 10 Q. All right. And August '21 project, you had
- 11 referred to that as turning the gravel road
- into a paved road.
- 13 Am I right on that?
- 14 A. No. That was given to me as the time of the
- 15 -- of when the incident occurred, and it was
- later amended to August of '22, of which we're
- 17 talking.
- 18 Q. Okay.
- 19 A. That was when they said initially was August
- of '21. They said, Oh, we made a mistake. It
- 21 was August of '22 is when the project
- occurred.
- 23 Q. And when were you updated to the August of '22
- 24 date?
- 25 A. That was on the 12th of March this year, 2024.

1	Q.	Page 96 Okay. So you have another version of Exhibit
2		2 in your folder?
3	Α.	I believe that was post when you asked for
4		your information.
5	Q.	Okay; fair enough.
6		And empty tri-axle, can you just quickly
7		tell us what that referred to again.
8	Α.	Yeah, that is the asking what trucks were
9		operating during this project; what would be
10		the typical truck that was operating. It
11		would be a tri-axle dump truck that he I
12		believe that was from Scott Griffin.
13	Q.	Okay.
14	Α.	And Tim Harrington is jotted down there as the
15		owner of the tree.
16	Q.	How about CMP easement for 35 years?
17	Α.	That is information that was given to me,
18		again, on site that CMP had an easement to
19		manage their lines that still followed the old
20		road.
21		So once the road to my knowledge, once
22		the road was realigned to be straight,
23		basically cutting off two sides of a triangle,
24		CMP maintained their lines still in a
25		triangular form around the tree. So that

Michael	i ix. iiu	gnes on 04/23/2024
1		Page 97 allows them access to have an easement, which
2		gives them access to maintain the you know,
3		their stuff; their transformers and things.
4	Q.	And does that tie into your final note there,
5		road realignment?
6	Α.	I don't I do not know. I do not know. No
7		date was given to me as when all that
8		occurred. The road was paved. It looked
9		pretty decent shape, but they said 2011 it had
10		been paved from gravel. But, again, this was
11		not I asked the question. I'm throwing the
12		question at them, and they did their best to
13		answer me. It could be a different date, but
14		I was asking them these questions.
15		This was not presented to me like we've
16		already found this information out. It's them
17		doing their best to say, Well, you know, 2011.
18		I believe somebody actually drove by during
19		that time and were wondering what we're all
20		looking at, and they might have actually said,
21		Oh, yeah, it was paved in 2011.
22	Q.	And then McGee Logging we talked about at
23		some point in the past, McGee Logging had
24		performed some logging operations in that
25		area?

_		Page 98
1	Α.	Again, information given to me. I would hate
2		to say I wrote it down because it was said
3		to me. They believed it was McGee Logging.
4		It could be some other logging outfit. I
5		don't want to cause somebody some headaches,
6		but they believed it was McGee Logging.
7	Q.	And at the time that you did the site visit in
8		December of 2023, your understanding was the
9		project and activity that we've been talking
10		about that the defendant was working on in the
11		area happened in August of 2021?
12	Α.	Correct, yes.
13		MR. BOPP: Um, okay. Any objection to
14		taking a copy of this and then making this
15		Exhibit 2-A?
16		MR. LIBERMAN: No problem.
17		MR. BOPP: Okay. All right. Any
18		objection to taking a break to get a quick
19		sandwich or something?
20		MR. LIBERMAN: No objection.
21		MR. BOPP: Okay. All right. Good
22		enough. Let's do that.
23		(A break was taken.)
24	ВҮ	MR. BOPP:
25	Q.	So, Mr. Hughes, I just want to hand you back

1		Page 99 your notes.
2	Α.	Thank you.
3	Q.	You're welcome. Thank you. And then we made
4		copies of them. Just put Exhibit 2-A on. So
5		there's a copy. And then there's this one
6		here.
7		(Off the record.)
8		MR. BOPP: I just wanted to put on the
9		record that we made a copy of Mr. Hughes's
10		notes, and we called that Exhibit 2-A. I
11		thought we had a 1-A also.
12		MR. HARRINGTON: We did have a 1-A. It
13	was his drawing.	
14		(Off the record.)
15		MR. BOPP: Okay. So do you want to hand
16		out the other
17		MR. HARRINGTON: Exhibit 3.
18	BY	MR. HUGHES:
19	Q.	All right. Mr. Hughes, I'm handing you what's
20		been marked as Exhibit 3. Ask you to take a
21		look at that, please.
22		MR. LIBERMAN: Could I take a look at
23		that one, and then once we need to hand it
24		over
25		MR. BOPP: Yes, absolutely.

- Page 100

 MR. LIBERMAN: Thanks.
- 2 A. By the way, just for the record, I did check
- 3 exactly how many photographs I took, and there
- 4 were 12 total.
- 5 BY MR. BOPP:
- 6 Q. Okay.
- 7 A. So I believe all of the ones that were clear
- 8 at least were submitted. But there's a grand
- 9 total of 12 that were taken.
- 10 Q. And some of them were just too fuzzy to be
- 11 useful?
- 12 A. I'd be glad to -- every single one -- I'll
- create a composite sheet of all of them; and
- some you will already have, but I'll just send
- 15 them to you.
- 16 Q. Yeah.
- 17 A. That way, you have everything that's -- that
- 18 was taken.
- 19 O. Okay. Yeah, that would be fine.
- 20 A. Okay.
- 21 Q. You've had a chance to look at Exhibit 3?
- 22 A. Yes, I have; mm-hmm.
- 23 Q. Have you seen that picture before?
- 24 A. I have not.
- 25 Q. And what -- can you tell what that is a

		Page 101
1	picture of?	

- 2 A. It looks like a picture of the -- again, let's
- 3 call it the southeast side of the tree and the
- 4 area surrounding it.
- 5 Q. So this is the legacy oak tree that's at issue
- 6 in this case?
- 7 A. Yes.
- 8 Q. Okay. Do you know when the picture was taken?
- 9 A. Do I know when?
- 10 Q. Right.
- 11 A. I have no idea when this was taken.
- 12 Q. Okay.
- 13 A. I looked for a time stamp on the back, but I
- 14 didn't see one.
- 15 Q. And I'm sorry. Did you say you have never
- 16 seen it before?
- 17 A. I have not seen this picture before.
- 18 Q. The road that's to the right of the tree, is
- 19 that the Merry Island Road?
- 20 A. Yes, I believe so. That would be Merry Island
- 21 Road.
- 22 Q. In the sketch that you made, the areas that
- you were talking about, the CMP lines running
- down, are those behind the tree and then in
- 25 front of the tree in the foreground?

1	Q.	ho And on the day of your site visit, did you see
2		any tire marks like these at the property?
3	Α.	Um, can I refer to my photographs and my phone
4		if you guys don't have those photographs?
5	Q.	I think that's fine.
6	A.	Do you have photographs?
7	Q.	We have some, but I don't know if we have the
8		ones that
9		MR. HARRINGTON: We don't.
10	A.	It would just take me a moment. Because I
11		just had them open. So let me just see.
12		Yeah, it appears there's tire marks in
13		this photograph taken on December 19 of last
14		year, at least from a perspective of it
15		looks like ground indentations right here
16		behind the white van.
17	ВҮ	MR. BOPP:
18	Q.	Okay.
19	Α.	So it does appear that's a popular pull-in
20		spot or it's hard to tell, but there
21		appears that there's let me see if we can
22		unfortunately, the point when I was there,
23		there was heavy leaf matter down on
24		everything. I'm trying to see if there's
25		anything rather clear.

Page 104 That's all right. 1 Q. 2 Is it fair to say -- so you're looking at 3 a picture on your phone of the tree, and there's a white van next to it; is that right? 4 5 Correct. Α. That was taken on the day of your site 6 Okav. 0. 7 visit, right? 8 Α. Correct. And that will be provided to us sometime after 9 0. 10 this deposition? 11 Correct. Α. 12 Are you saying that the leaf cover in that **Q.** 13 picture and on that day is heavier than the 14 leaf cover in Exhibit 3? Yeah. Yes, I would say so because I believe 15 Α. 16 all the leaves on the surrounding trees and this tree had fallen down. So there was quite 17 a bit of leaf cover out there. 18 Looking at these tire marks on Exhibit 3, can 19 Q. it reasonably be assumed that whatever vehicle 20 21 made these marks, that doing so impacted the 22 root system of the oak tree? I would say potentially, yeah. If it has been 23 Α. run over once, twice, 300 times, each one has 24

an impact.

25

1	Q.	ho Okay. And is it fair to say that the root
2		system of this particular tree would extend
3		out to and past these tire marks?
4	Α.	Yes.
5	Q.	How far under the ground are the roots?
6		Is there any way to tell, generally?
7	Α.	Typically, on a red oak, most of your roots
8		are going to be located within the first 18
9		inches of soil.
10	Q.	And is there what's known as a woody section
11		of the root system?
12	A.	Yeah yes. Sorry. Supporting your main
13		your main root plate is your the part that
14		to make this visual is what you see a
15		root plate generally gets lifted out of the
16		ground like after the last storm where we see
17		trees over sideways. So that is going to be
18		your very woody roots that are supporting
19		roots. So those will be within the first
20		on a tree this size, generally within the
21		first 8 feet of the trunk.
22		So, yes, to answer your question. Those
23		would be more woody roots.
24	Q.	And these tire tracks would be above the woody
25		roots?

1	Α.	I would say so, yes.
2	Q.	And do the woody roots provide most of the
3		support for the tree?
4	Α.	The root plate, as it is, with the woody
5		the woodier larger roots, yes; it's a support
6		system for stability. The fine fibrous roots
7		are equally important. They're going to be
8		farther out from the trunk.
9		And if it helps just to clarify
10		because you'll get these photographs but I
11		did put some cones that will appear in the
12		photographs out that day to outline where the
13		edge of that root system not the exact
14		edge, but where that root system was in
15		relation to things on site. So that will show
16		up in your photograph well out over here.
17		There'll be a series of cones showing,
18		basically, what the root system is in the
19		area. And it really is underneath all of that
20		area that you can see road or access around a
21		tree. That typically would be all part of a
22		healthy tree's root system.
23	Q.	Exhibit 4.
24		MR. LIBERMAN: Are you going to provide
25		us with Exhibit 4?

- Page 107

 1 MR. HARRINGTON: I was caught off guard.
 - 2 I had three pages of questions with that,
 - Fred, and you shrunk it down.
 - 4 MR. BOPP: Imagine that.
 - 5 BY MR. BOPP:
- 6 Q. Ask you to review Exhibit 4, please.
- 7 A. Mm-hmm.
- 8 Q. That's your resume; is that right?
- 9 A. Yes; mm-hmm.
- 10 Q. And is this all current as of today?
- 11 A. Yes, it is; mm-hmm.
- 12 Q. And do you have to take continuing education
- to maintain some of your qualifications?
- 14 A. Yes. Certifications and qualifications, yes.
- 15 Q. And we already talked about your TRAQ
- 16 certification is subject to renewal; is that
- 17 right?
- 18 A. It is. TRAO is a qualification.
- 19 Q. I'm sorry.
- 20 A. So it has to be retested out of every five
- 21 years -- within five years.
- 22 Q. Are any of your other certifications or
- 23 qualifications subject to being retested?
- 24 A. Not retested, no. You have to -- the board
- 25 certified has to -- has a 60 CEU every --

- Page 108

 1 every three years, I believe. So it's 60 CEUs
- 2 per three years, I believe.
- 3 Q. Okay.
- 4 A. And the ISA is similar. I bunt and do them
- 5 both at the same time.
- 6 Q. We're going to hand you Exhibit 5, two pages.
- 7 I'm just going to staple them together.
- 8 I'll ask you to review that and let me
- 9 know if you're familiar with it.
- 10 A. Yeah. Yes, I am.
- 11 O. What is Exhibit 5?
- 12 A. This is ISA Basic Tree Risk Assessment Form.
- MR. LIBERMAN: Could we have the witness
- just give her his copies after he's done
- testifying so I can follow along?
- MR. BOPP: Sure. No worries.
- 17 BY MR. BOPP:
- 18 O. And we talked about this form a little earlier
- 19 today, right?
- 20 A. Mm-hmm. Yes, we did.
- 21 Q. And you indicated that completing this form
- was outside the scope of what you had been
- asked to do for your assignment in this case;
- 24 is that fair?
- 25 A. Yes, it was outside of what was the requested

- Page 109

 1 assignment, yes. It was not part of the -- it
- was not -- I'll say not part of the request
- 3 for the assignment.
- 4 Q. And as far as you know, is this the complete
- form; the two pages?
- 6 A. Yes, it is; mm-hmm.
- 7 Q. And you are familiar with how to complete it
- and have completed this on numerous occasions
- 9 before?
- 10 A. Yes; mm-hmm.
- 11 Q. Exhibit 6. Look at us.
- MR. HARRINGTON: You're throwing me off.
- MR. BOPP: Good.
- 14 BY MR. BOPP:
- 15 Q. So I'm handing you Exhibit 6. If I can ask
- 16 you to take a look at that picture.
- 17 A. Okay.
- 18 Q. I take it this is not a picture that you took;
- is that right?
- 20 A. It was not a picture I took.
- 21 Q. Okay. Um, do you recognize the tree on the
- left side of the picture?
- 23 A. It appears to be the subject tree.
- 24 Q. I'll represent to you that it is, and that
- 25 that road then would be the Merry Island Road,

Page 110 I believe, if that's correct. 1 2 Does that sound right to you? 3 It appears right. Correct, yeah. Α. Do you see the bark at the base of the tree in 4 Q. Exhibit 6? 5 6 Α. Yes. 7 0. What -- what does that indicate? That it fell off the tree. 8 Α. 9 Is that what you're speaking of; what's 10 on the ground? 11 Yeah. No, that's a fair answer. Q. 12 Can you tell why it fell off the tree? 13 Not at all. Α. 14 0. No? 15 Α. No. 16 Can you tell what's happening to the tree 0. 17 based on the condition in this picture? 18 Α. No. 19 It's obviously not healthy, right? 0. No, it's -- it's -- this is what I had 20 Α. 21 discussed earlier. So, no. 22 So something is -- is the tree rotting or Q. what's happening here on the left where the 23 bark is falling off and you see the under --24 under the bark surface? 25

1	Α.	Page 111 It's damage that had occurred at some point in
2		time, and the tree the tree is attempting
3		to close it from the sides. It's going to
4		probably decay before it ever gets a chance to
5		do that. So the damage is widespread. It
6		covers a large percentage of the caliper of
7		the tree, and it's not something that a tree
8		of this type or any tree could recover from.
9	Q.	Can you based on what you see in this
10		picture, would this have would this then be
11		a picture of the tree later in time after your
12		site visit in December of 2023?
13	Α.	I don't understand that question.
14	Q.	So was the was the tree in this condition
15		when you saw it in December of 2023?
16	Α.	It was similar to this, yes.
17	Q.	Okay. Can you tell if this is worse than when
18		you saw it?
19	Α.	Um, that's almost impossible to tell. I'd
20		have to I'd have to do a side by side of my
21		photographs. But I would guess not. I would
22		guess that it's going to be very similar if
23		this photograph was taken in February of this
24		year or March of this year.
25	Q.	When you saw the tree in December of 2023, did

1		you think that the tree would be able to Page 112
2		recover or that ultimately it would die?
3	A.	Um, I do not think that the tree would be able
4		to recover from this type of injury. Um,
5		whether or not the tree dies, it can take a
6		very long time to occur. The tree can go
7		through a number of different phases.
8		You know, there's examples of trees in
9		Europe that are hundreds of years old that are
10		hollow. Not a situation you want in this kind
11		of you know, around a road and all that,
12		for sure. But I wouldn't say that the tree
13		was going to die in the next I couldn't
14		forecast that. That would be very difficult
15		to say.
16	Q.	You see the cracks at the edge of the road
17	A.	Yes.
18	Q.	in Exhibit 6?
19	A.	Mm-hmm.
20	Q.	Can you make any judgment as to how those
21		cracks might have been made?
22	A.	I'm not a road expert, and I don't want to
23		speak outside, you know, what I'm here for.
24		It looks like heavy heavy equipment or
25		something heavy drove up and the side

1		Collapsed; whether it be a plow truck or dump
2		truck or whatever. It looks like to me,
3		like it collapsed under the weight of
4		something.
5	Q.	In looking at the tree trunk, is there
6		somewhere that you could point to that shows a
7		root coming off of the tree?
8	Α.	Not that I can see.
9	Q.	Let's move on to Exhibit 7.
10		MR. LIBERMAN: Thank you.
11	ВҮ	MR. BOPP:
12	Q.	So looking at Exhibit 7, would you say that
13		appears to be a close-up of the cracked
14		pavement from Exhibit 6?
15		THE DEPONENT: Can I grab this back?
16		THE REPORTER: Sure. Help yourself.
17	Α.	It does look the same, yes.
18		MR. LIBERMAN: I think he's done with
19		that.
20		THE DEPONENT: All done?
21		MR. BOPP: Yeah.
22		MR. LIBERMAN: Thank you.
23	ВҮ	MR. BOPP:
24	Q.	I'll ask you to take a look at Exhibit 8. Let
25		me know when you've had a chance to look at

Page 114 1 it. 2 Α. I'm sorry. I'm trying to read through the 3 overstamp here -- website overstamp. I don't think you need to worry about that. 4 Q. 5 Α. Okay. The two sources that are in parentheses there, 6 **Q.** 7 are you familiar with Zimmerman and Brown, 8 1971, and Kozlowski and Winget, 1963? 9 Α. Yes. 10 Both of those you are? 0. 11 Α. Yes. 12 0. So are --13 Is this relevant information; is that what you Α. 14 wanted to ask me? 15 0. Sure. Let's go with that. 16 I would say that much has been done since this Α. time, but this is still relevant information. 17 18 0. Okay. It's relevant to what should be common 19 Α. 20 knowledge for somebody who has experience or education. So, yes, this is a relevant sheet 21 22 of paper here. Would you agree with the statement in here 23 24 that says, Death or damage to the roots of 25 trees with such restricted, one-sided plumbing

Page 115 systems usually results in the death of the 1 2 corresponding branches? 3 Yes, I would agree with that. Α. And are these authors that are authorities, if 4 Q. you will, in the field of --5 Trees physiology? Yeah, they're early -- you 6 Α. 7 know, 1971, 1963. It's all relative, you 8 know, to -- over time, like I said, a lot of work has been done, and so -- but this is --9 this is a foundational knowledge, and it's 10 11 good and it's relevant. I have no problem 12 with what's written here. 13 Okay, great. Thank you. Move on and ask you Q. 14 to look at Exhibit 9. Just let me know when you've had a chance to review --15 16 Yeah, I'm ready. Α. 17 So the bottom picture on Exhibit 9, I don't 0. 18 remember the technical term that you used, but 19 is that an example of what you had described? 20 Was it root plate; is that what you said? 21 Yes; mm-hmm. Α. 22 So is this an example of a root plate? Q. 23 Α. Yeah. That's a good photograph, yeah. And can you tell, is that an oak tree? 24 0.

Α.

25

It looks like an oak or an ash, yeah.

1	Q.	Page 116 And is there a term a specialized term in
2		your field used to describe these types of
3		roots?
4	Α.	Yeah, these larger roots right here right up
5		near the trunk are buttress roots. As we move
6		out into the fibrous root system is going to
7		be extending well beyond what we're seeing
8		here. They will be in and among the buttress
9		roots, which is critical.
10		It used to be thought that everything was
11		way out at the drip line and all the fine
12		fibrous roots were what you can see
13		dangling down here were out at the drip
14		line. But generally, this whole root plate
15		area has quite a bit of it in there. So,
16		yeah.
17	Q.	And is it fair to say that, um, the root
18		system closer to the tree is also closer to
19		the surface?
20	Α.	No; no. I guess right up near the trunk where
21		it's entering the ground, to crush those would
22		not be a good idea, for obvious reasons. I'll
23		explain that a little bit better. In damaging
24		one of these large buttress roots, you're
25		going to be damaging the fan of roots that

1		Page 117 extends out from it. So if you picture like a
2		fan you fan yourself with, those are going to
3		extend away, and each this oak here in
4		- '
		question has, you know, five buttress roots
5		showing on this side. So loss of a buttress
6		root means loss of all those fibrous roots
7		that are attached to it. So once decay gets
8		in, it's not a good thing.
9		Did I answer your question?
10	Q.	Yes. Yeah.
11	A.	But as far as I'm sorry. Your question was
12		depth. Are they higher than other roots, and
13		I would say no, to the effect of they're all
14		important. So they're all especially in
15		Maine, they're going to be in the upper
16		surface of the soil, and your fibrous roots
17		that I mentioned are going to be equally
18		shallow out here.
19		So you're not diving down the old
20		pictures of showing root systems diving down
21		deep to the center of the earth almost is
22		especially in Maine, is not the case. They
23		are up on the upper 18 inches of soil if
24		there's 18 inches of soil to be had.
25	Q.	Okay. Thank you. I'll show you Exhibit 10.

1		Page 118 MR. LIBERMAN: Thank you.
2	ВҮ	MR. BOPP:
3	Q.	Let me know when you've had a chance to review
4		that.
5	Α.	Yes; mm-hmm.
6	Q.	I'll represent to you that that is the oak
7		tree that's at issue in this case.
8		And right in the middle of the picture,
9		if you will, is that an example of what you
10		just described as a buttress root coming out
11		of the oak tree?
12	Α.	You know, I don't believe that is. What I
13		believe that is, though, is the tree really
14		this is the part of the tree's attempt to
15		recover recover from the damage to the
16		trunk roots, and it's actually quite a bit of
17		aggressive rolling in development of wound
18		tissue in. Either way, if the tree lost,
19		through any of this damage, crushed roots
20		right here, it's substantial. So I'm not
21		taking anything away from that.
22		But to this piece right here that
23		appeared in your other photograph on Exhibit
24		I think it was 7, it looks to me like
25		that's an aggressive rolling in of to
1		

1	Page 119 attempt to heal either the base of the tree or
2	still connected to a root. It has to be
3	connected in some way to a root at that low.
4	So it looks to me like an attempt of a
5	wound wood development right there. I have a
6	feeling that if it were a buttress root that
7	had been crushed on that side, we'd be seeing
8	more evidence of on the back side of it
9	seemed pretty healthy like it was rolling,
10	like a ram's horn rolling; whereas, we'd see
11	this really ugly decay if it were a buttress
12	root.
13	Typically, they'll just decay out, and
14	this was more of a rolling. Either way, it's
15	a response. It's a response of the tree to do
16	something; to try to attempt to recover,
17	either through the root. And, again, to your
18	point of air spading, there's ways to see
19	that. There's ways to chase that out and
20	really find out, is that a damaged root that's
21	responding or the trunk of the tree
22	responding.
23 Q.	So it may be what you described earlier as
24	response growth; is that fair?
25 A.	Yeah. Um, and it's not obviously, the tree

Michael	K. Hu	gnes on V4/25/2024
1		is going to have major roots on that side.
2		It's going that tree has stood up to a lot
3		of wind in its time. When all those other
4		woods were cleared away, that tree stood kind
5		of sentinel like out there. So it has serious
6		support roots on it to be able to put up with
7		that.
8	Q.	I'll hand you Exhibit 11; ask you to take a
9		look at that.
10	Α.	Okay.
11	Q.	Does this look like the legacy oak or is this
12		a different tree?
13		MR. HARRINGTON: That's a different tree.
14	Α.	I didn't look at this tree.
15	ВҮ	MR. BOPP:
16	Q.	So you see that it has an arrow drawn.
17		Is there an arrow drawn on the bottom of
18		yours sort of in black or no?
19	Α.	No, not that I can see.
20	Q.	It must be on mine then only.
21		MR. HARRINGTON: Oh, my God.
22		MR. BOPP: It's all right.
23		MR. HARRINGTON: I made a mistake.
24		MR. BOPP: We'll all be able to write in
25		our diaries tonight.

1	ВУ	MR. BOPP:
2	Q.	So question here: If there was a root
3		directly in front of this tree so at the
4		bottom of the picture was crushed, where
5		would you see damage on the tree?
6	Α.	I can't answer that. That's I can only
7		answer to the subject tree. I won't answer to
8		these other ones random trees. That's
9		outside my scope. I can only handle I can
10		talk about the subject tree. I'm not going to
11		talk about random trees.
12	Q.	I get it. And I don't want to make a big deal
13		of this. I am allowed to ask you
14		hypotheticals because you're an expert. And
15		it's not a trick question. And maybe the
16		answer is it can occur anywhere on the tree.
17		But that's all I'm trying to get, is if a
18		root is crushed in front of the tree, does
19		that mean it's either damaged right there on
20		this side or could it be on the other side or
21		could it be anywhere? That's the nature of
22		your question.
23	Α.	To your exhibit, depending upon the species of
24		tree, it could occur elsewhere on the tree.
25		It could we're not talking about, you know,

		D 444
1		a specific species; and even if you were
2		talking a specific species, given the site
3		conditions, given the growing conditions over
4		time, even a red oak that's a straight vessel
5		tree, the damage can occur on the opposite
6		side of the tree. It's unusual, but it's
7		MR. HARRINGTON: Impossible.
8		MR. BOPP: Shh.
9	Α.	You're talking about we can have trees that
10		on the Maine water shores here you know,
11		right up on Westport Island and Yarmouth that
12		are growing, and literally they will not go
13		through a wood splitter because the grain is
14		going like this. They've been fighting wind
15		for so long. It's unusual, but not too
16		different than what you see up on the top of
17		the mountains where pines are twisted. So
18		oaks can be twisted.
19		If you want to talk generalities, I don't
20		see the point to it, honestly.
21	BY	MR. BOPP:
22	Q.	Take a look at Exhibit 12. Ask you to take a
23		look at that, and let me know if you've seen
24		it before.
25	Α.	I have not seen this before.
1		

1	Q.	Okay. Before we set that aside, let me just
2		ask this. I know you said you haven't seen it
3		before.
4		Is it possible that this is one of the
5		items that was provided to you before you
6		started your assignment in this case by
7		defendant's counsel?
8	Α.	Everything everything I've received is
9		right here.
10	Q.	Okay.
11	A.	So if it was I will say this. If it was in
12		an e-mail, in an icon that somehow I missed,
13		then I'm unaware of it.
14	Q.	That's fine.
15	Α.	Okay. Maps are great. Maps are always
16		helpful to have, and so I would have welcomed
17		something like this.
18	Q.	Okay. All right. I mean, I'm just wondering
19		
20		MR. HARRINGTON: Fred, we're cruising
21		here. Don't break the momentum.
22		MR. BOPP: No, but I'm thinking that
23		well, I guess we'll do them one at a time.
24		MR. HARRINGTON: Oh, I see. You want to
25		clump it?

Page 124 MR. BOPP: Probably hand him 13 through 1 2 17. BY MR. BOPP: 3 And I'll ask the same question. If you can 4 Q. look at Exhibits 13 through 17, whether you've 5 seen any of those before. 6 7 Excuse me. Can I say something? Α. 8 Q. Yes. I won't be rushed through a deposition. 9 Α. 10 won't be made to feel like I'm being pushed to 11 complete this assignment. This is too 12 important. And if this takes two or three 13 days, I'm fine with that. 14 Q. Okay. But I don't want to feel rushed during any 15 Α. 16 part of the three days. Let me know if you think I'm rushing you 17 0. 18 because that's not my intent at all. I was just trying to move things along a little 19 20 quicker for everyone's benefit, but I'm not 21 trying to rush you. 22 Don't do it for my benefit. Because the Α. 23 answers that I provide you I want to be helpful and clear, and that's my only goal. 24 25 have no dog in the fight.

- Page 125

 1 Q. Okay; understood. I appreciate you saying
- 2 that.
- 3 A. Okay.
- 4 Q. Have you seen Exhibit 13 before?
- 5 A. No.
- 6 Q. All right. Moving on to Exhibit 14. I'll ask
- 7 you to review that, please.
- 8 A. No, I have not seen this.
- 9 Q. Have not seen Exhibit 14?
- 10 A. I have not, no.
- 11 Q. And Exhibit 15. Ask you to review that; let
- me know if you've seen that before.
- 13 A. I have not.
- 14 Q. All right. Exhibit 16. Please review it; let
- let me know if you've seen that before.
- 16 A. No.
- 17 Q. All right. Exhibit 17. Please review that;
- let me know if you've seen that before.
- 19 A. No, I have not seen this sheet of closing
- 20 statement.
- 21 Q. All right. So Exhibit 18.
- 22 MR. HARRINGTON: Is big.
- 23 BY MR. BOPP:
- 24 Q. So you've been handed Exhibit 18, which is a
- 25 multipage exhibit.

	110 110	Page 126
1		MR. BOPP: Trade you with that. Staple
2		that one.
3		MR. LIBERMAN: All right. Thanks.
4	ВҮ	MR. BOPP:
5	Q.	I'll ask you to review that, and let me know
6		if you've seen that before.
7	Α.	There was something in here from CMP. I think
8		it was just the yeah, here it is.
9		No, I have not seen this.
10	Q.	Um, with respect to Exhibit 18, it's a Witness
11		Subpoena for Central Maine Power Company on
12		the first page.
13		Do you agree with that?
14	Α.	Yes, I see that it's a Witness Subpoena.
15	Q.	And it's directed to Central Maine Power
16		Company?
17	Α.	Yes.
18	Q.	Do you recall ever being provided with any
19		documents that Central Maine Power Company
20		produced in response to this subpoena?
21	Α.	I'd have to check this. This is the only info
22		I have from CMP that I am aware of. It was on
23		the 4th 5th of January of this year,
24		indicating a note section of vehicle weights,
25		times that their vehicles have been on the

- **Page 127** 1 site in the past. That was just quick one
- 2 line things. But nothing as extensive as
- 3 this, that I have in my possession.
- All right. 4 Q.
- MR. BOPP: Can you hang onto that. I'm 5
- just going a put a staple in that one to hold 6
- the pages together. Thanks. 7
- BY MR. BOPP: 8
- All right. Let me hand you what I've marked 9 0.
- 10 Exhibit 18-A; ask you to take a look at that.
- 11 Α. Okay.
- 12 Is your e-mail address the e-mail address 0.
- 13 that's in the To line on that exhibit?
- 14 Α. Yes.
- 15 0. So that's an e-mail that was sent to you by
- 16 Greg Patient --
- 17 Α. Mm-hmm.
- 18 -- on January 4, right? 0.
- 19 It looks like it, yes. Α.
- 20 Q. And he's an attorney that works with Attorney
- 21 Liberman, right -- or do you know Greg
- 22 Patient?
- 23 Α. I don't know Greg Patient, no.
- Okay. You see on the cc line Jonathan 24 0.
- Liberman is copied, right? 25

Page 128 1 Α. Yes. Do you recall receiving this e-mail? 2 Specific to these vehicles, no. 3 Α. It says, Mike, please find attached for your 4 Q. file materials we received from Central Maine 5 6 Power in response to the attached subpoena. 7 Do you see where it says that? 8 Α. Yes; mm-hmm. 9 Do you recall what materials came along with 0. 10 this e-mail? 11 Α. No. 12 And this isn't a rhetorical question, but 0. 13 whatever the materials were, they did not 14 impact or affect any of the conclusions or opinions in your expert designation; is that 15 16 correct? 17 Α. In my expert --18 Yeah, that we reviewed earlier; Exhibit 1, 0. 19 expert designation. They did not affect my --20 Α. 21 Conclusions or opinions in that designation. 0. 22 In which way? In that they're acknowledging Α. that they've had vehicles in there or that 23 they have the right to put vehicles in there? 24

Q.

25

Let me ask it a different way.

		7
1		Page 129 So in your designation, there are certain
2		statements about your conclusions and opinions
3		in the designation.
4	Α.	Mm-hmm.
5	Q.	Yes, right?
6	A.	Correct.
7	Q.	You just said "mm-hmm." That's why I asked
8		you.
9	Α.	Oh, I'm sorry. Yes, absolutely.
10	Q.	No problem.
11		And that was in December of 2023 your
12		designation was dated, right?
13	Α.	Mm-hmm; yes.
14	Q.	This comes after that. It's January 4, 2024,
15		right?
16	Α.	Yes.
17	Q.	So my question is, really: Did anything you
18		received here impact or affect in any way what
19		was already stated in your designation?
20		In other words, did this cause you to
21		change anything in your designation?
22	Α.	No, it did not.
23	Q.	Let's take a look at Exhibit 19, please. I'm
24		going to ask you to review that, and if you
25		can tell me what's pictured there.

		D 130
1	Α.	It looks like a CMP telephone pole, CMP
2		Company number hard to see what that says
3		168 or 160 something, 190 something. The 6
4		dropped upsidedown, so it's a 160 I don't
5		know.
6	Q.	Something?
7	A.	Something, yeah.
8	Q.	And there's a CMP designation up above the
9		number, right?
10	A.	Yes; mm-hmm.
11	Q.	Do you know where this pole is located?
12	A.	I do not.
13		MR. BOPP: We're going to staple together
14		20 because it is multi pages.
15		MR. HARRINGTON: We are, are we?
16		MR. BOPP: Yeah, that's this one. You're
17		ahead of yourself.
18	ВУ	MR. BOPP:
19	Q.	I'm handing you what's been labeled Exhibit
20		20.
21		MR. HARRINGTON: How many pages is that?
22		What? Five?
23		MR. BOPP: I've got five.
24		MR. LIBERMAN: Thanks.
25		MR. BOPP: Yeah.

1	BY	MR. BOPP:
2	Q.	Have you seen these before?
3	Α.	I have not. No, I have not seen these.
4	Q.	Okay. Move on to Exhibit 21.
5		MR. BOPP: Do you have 21?
6		MR. HARRINGTON: Are you pressuring me?
7		Jeez.
8		MR. BOPP: I'm pressuring everybody.
9		Jon, do you feel pressured?
10		MR. LIBERMAN: No; no.
11		MR. BOPP: Good.
12		MR. HARRINGTON: Are you making fun of
13		me?
14		MR. BOPP: Of course not.
15	ВҮ	MR. BOPP:
16	Q.	I'm going to hand you Exhibit 21, which is
17		actually two pages, but we're not going to
18		staple them together. I'll ask you to take a
19		look at that, and let me know if you can
20		identify it.
21	A.	Yeah. Yes, I can identify this.
22	Q.	And what is it, please?
23	A.	It looks like the photograph that I took of my
24		phone on December 19.
25	Q.	And is this a picture of the oak tree at

Page 132 issue? 1 2 It's the picture of the subject tree. Α. It is. 3 And why did you take this picture? 0. Why did I take the picture? The picture was 4 Α. taken in order to -- help me to have something 5 to go back to as far as looking at some of 6 7 that wound wood response that I had talked 8 about. 9 And what section of the tree is this picture **Q.** 10 of? 11 This is the lower trunk on the southeast side. Α. 12 So the morning sun is on it, so between 9 and 13 11 in the morning. So probably half way 14 through. It was probably around 10:30 in the morning, approximately. 15 16 And are there shadows on the tree or is that 0. iust coloration? 17 It looks like a shadow over here in this lower 18 Α. left-hand corner. But, no, the rest of it is 19 -- that is not shadow. 20 21 And so this is to show both the injury and the Q. 22 recovery growth; is that fair? 23 Α. Yes; mm-hmm. 24 And then the second page provides Q. 25 information -- for example, on the device that

Page 133 took the picture, it says Device Info, Apple 1 2 iPhone 7. 3 Your phone is an Apple iPhone 7? That was with my phone, yes. 4 Α. Yes. 5 All right. Let's move on to Exhibit 22, which **Q.** is also two pages, but we're not going to 6 7 staple them together; ask you to take a look 8 at that and whether you recognize that photo. Yes, I do. I recognize that photo. 9 Α. 10 Is that a photo that you took during your site **Q.** 11 visit? 12 Α. Correct. 13 And for the same purpose as Exhibit 21? Q. 14 Α. Exactly, yes. And is that your hand holding a pen? 15 0. 16 Yes, it is. Α. 17 Is it the pen you brought with you today? 0. It's one of many Bath Savings pens that they 18 Α. 19 20 Q. I happened to notice it was the same kind of 21 pen. 22 And so what is it that you were pointing at there in the picture? 23 24 That is pointing at one of the growth rings Α. 25 that we discussed earlier.

Michael K. Hughes on 04/25/2024			
1	Q.	Page 134 And the growth ring being the yellowish part	
2		of the picture?	
3	Α.	That being the the spring wood and summer	
4		wood and the growth; basically, saying the	
5		annual annual return, if you will, between	
6		the growth rings. So I'm pointing at a growth	
7		ring, so that's all wood that was added in the	
8		last year of time between the white streaks.	
9	Q.	So that was since December of 2022?	
10	Α.	That would have been, if I can count back	
11		it's a little bit harder in this fuzzy	
12		photograph, but that would have been since	
13		about from this piece of this piece that	
14		we're looking at right here, that would be	
15		from approximately 2011.	
16	Q.	And "the piece," does that mean the whole	
17		yellow strip there, if you will?	
18	Α.	Yes, from what we can see right here in this	
19		section of the trunk. Because, again, you	
20		know, it's going to be rolling in from	
21		different areas, but it's going to be hidden	
22		sometimes by bark; and sometimes all of this	
23		area was hidden by bark at one time if it's	
24		crushed crushed into place, whether it be a	
25		lightning strike that's gone down and zapped	

	•	Page 135
1		all that cambial area or something is managing
2		to crush or bang into it.
3		Quite often, the bark will stay on the
4		tree hiding activity for a number of years,
5		and then the bark starts to slough off. It's
6		like, Oh, my gosh. You're like, Wow. It's
7		much more apparent now.
8	Q.	And so what was important about examining that
9		part of the tree for purposes of your
10		assignment?
11	Α.	Gaining just a some background of potential
12		things that have occurred to the tree in the
13		past.
14	Q.	Like the actual events or the time when they
15		happened or both?
16	Α.	It's more of the timing of an injury of when
17		it would have happened.
18	Q.	And from this, were you able to determine
19		rough timing?
20	Α.	Of this event?
21	Q.	Well, in any event.
22	Α.	That was what was put on to the summary right;
23		that probably my guesstimate best
24		guesstimate, it would be 15 to 20 years ago.
25		That wound has been in recovery for 15 to 20
1		

Page 136 1 years. 2 Is it fair to say that compaction of **Q.** 3 the soil around the tree leading to damage to roots would negatively impact the ability of 4 the tree to recover from damage like this? 5 6 Absolutely. Α. Yeah. Let's take a look at Exhibit 23. 7 It's 0. 8 also two pages. 9 MR. HARRINGTON: Mm-hmm. 10 MR. BOPP: I quess --MR. HARRINGTON: It is. 11 12 BY MR. BOPP: 13 I'm sorry. Before we get to 23, if I didn't **Q.** 14 mention it, on 22, the second page is the same type of page as for 21, with just detailed 15 16 information about the image itself; is that 17 right? 18 That is correct, yes. Α. I'll ask you to take a look at Exhibit 23. 19 0. 20 Let me know if you've seen that before. 21 I'm not sure if I have or not -- if I've seen Α. 22 this exact image. I'm not sure if I have. It's similar to some of the photographs that I 23 took. I'm not sure if it's one of my 24 25 photographs or another photograph in the file.

- Page 137

 I can't answer that. It looks very similar.
- 2 Q. Okay. Can you tell if it is a picture of the
- 3 top of the tree that's at issue here.
- 4 A. I can't, no. I can't, no. I cannot tell if
- 5 that's an oak tree standing in Yarmouth or
- 6 here.
- 7 Q. Okay.
- 8 MR. HARRINGTON: You don't likey-likey?
- 9 MR. BOPP: That's fine.
- 10 BY MR. BOPP:
- 11 Q. Let's move to Exhibit 24. I shouldn't keep
- doing this, but Exhibit 23 -- I'm sorry -- the
- second page had information about the image
- similar to the second pages for 21 and 22; is
- 15 that right?
- 16 A. It did have information off to the side. I
- don't know what it meant.
- 18 O. Thanks.
- 19 We'll hand you Exhibit 24, which is also
- 20 two pages. Same question, if you recognize
- 21 that photo.
- 22 A. This one I do recognize, yeah.
- 23 Q. And what is that a photo of?
- 24 A. That is a photo of the subject tree.
- 25 O. With a vehicle next to it?

- Page 138

 1 A. Yes, vehicle -- white van parked on top of the

 2 root system, and in the distance is my truck
 - 3 parked on the road.
 - 4 Q. And then there are two individuals in the
 - 5 picture as well?
 - 6 A. Yes.
 - 7 Q. Are you able to identify who those are?
 - 8 A. I'm going to estimate that's Scott Griffin and
 - 9 Jon Liberman.
- 10 Q. While you have Exhibit 24 -- and we'll just
- 11 clarify. The second page of Exhibit 24 is
- information about the image similar to the
- last few exhibits that we saw; is that
- 14 correct?
- 15 A. Yes.
- 16 O. Let me hand you also Exhibit 25 so you can
- 17 look at them side by side, actually.
- 18 A. Okay.
- 19 O. And I'll represent to you that Exhibit 25 is a
- 20 blowup, if you will, of Exhibit 24.
- 21 Does that sound like a fair
- 22 representation?
- 23 A. Yes; mm-hmm.
- 24 Q. Okay. And so I don't know if that helps you
- 25 identify the other two people to the right

Page 139 1 there any better or not. 2 Α. I recognize -- more back over here, I believe 3 that was Scott Griffin by his truck. I can 4 see the truck in this photograph. Because he pretty much stayed on the road. He did not 5 step around the tree at all. 6 7 And then the other individual? Q. 8 Α. I don't recognize who that may have been. 9 MR. LIBERMAN: It's me. 10 It's Jon, yeah. 11 BY MR. BOPP: 12 All right. Thought so. 0. 13 We did have occasionally a car stop, and Α. 14 people were walking, also, down the road. 15 0. Okay. 16 So that's why I'm being a little cautious to Α. 17 make sure I didn't miss somebody walking 18 around here. 19 No problem. 0. 20 And so on the left-hand side of Exhibit 21 25, the white vehicle there all the way to the 22 edge, that's your truck? 23 Α. That is my truck. 24 And so the tree that's right in the middle of 0. 25 this picture, that's the oak tree we've been

Page 140 talking about? 1 2 Α. That appears to be the oak tree we're talking 3 about, yes. Well, I'm not trying to be a jerk or anything. 4 Q. But it is the oak tree, right? 5 I mean, 6 you said "appears." I'm just being looking --7 Α. Yeah. There's no identifying feature on it, 8 but it is centered in my photograph; and since 9 I appear to take the photograph, I'm going to 10 say, yes, it is. 11 Okay. No worries. Q. 12 Is that a power line that I see in the 13 blowup there across, um -- kind of near -- I 14 can't tell depth-wise, but it runs across the branches. What I'm referring to is that line. 15 16 Correct. Α. 17 0. Okay. So that's a power line? That is -- yeah, and it leads to a pole right 18 Α. here and then leads back out to the road. 19 it's a triangle of wires; triangle coming here 20 21 then extending back out to the road -- a vee, 22 I should say, of wires. And this picture pretty accurately shows --23 0. this was taken on the day of the site visit, 24 25 right?

- Page 141

 1 A. Yes, it was.
- 2 O. And this -- you had described the fact that
- 3 the ground was pretty heavily covered with
- 4 leaves, and this picture -- by this picture, I
- 5 mean Exhibit 25 -- confirms that?
- 6 A. Yes, it does; mm-hmm.
- 7 Q. I think that's all I have for those.
- 8 Look at Exhibit 26. I'll ask if you've
- 9 seen that picture before.
- 10 A. Can I refer to my phone for a second?
- 11 O. Sure.
- 12 A. I apologize. I took different photographs
- from different angles here, and I don't
- remember that one, to tell you the truth. I
- do not recognize that photograph. It's not
- one that I took.
- 17 Q. All right. We'll move on to Exhibit 27. Ask
- you to take a look at that; ask if you've ever
- 19 seen that before.
- 20 A. No, I have not.
- 21 Q. Um, do you know what a Moultrie Mobile is?
- 22 A. I do not.
- 23 Q. And this -- can you tell from this picture if
- 24 that is the legacy oak in the middle there?
- 25 A. It appears -- from the limb laying on the

		,
1		ground in the same spot and the wound on that
2		side of the tree and the fact that this was
3		taken at 12 noon, the lighting of the day, it
4		appears to be it appears to be the tree.
5		It appears to be the tree.
6	Q.	And you had just described did you say the
7		wound on the tree?
8	A.	It looked like there's something here. But,
9		again, now I'm commenting on something that
10		could be taken in Iowa of a tree in the woods.
11		I'm not comfortable with it at all since it's
12		not my own work product. I've never seen this
13		photograph before. And it could be the tree.
14		It might not be the tree.
15	Q.	I'll represent to you that it is the tree.
16	Α.	Okay. Thank you.
17	Q.	Yeah, no problem. I'm just trying to and I
18		appreciate that.
19		The wound, is that on the right-hand
20		side? Am I looking in the right area for that
21		or is that
22	Α.	Right about on the right-hand side of the
23		tree on the southeast south, southeast side
24		of the tree.
25	Q.	Okay. Down towards the base

Page 143 1 Α. Yes. 2 Where it's maybe a little darker in color? 0. 3 Α. Correct. Okay. Thanks. 4 Q. Okay. We'll go on to Exhibit 28. 5 Thank you. Okay. 6 Α. 7 0. Ask if you've seen that picture before. 8 Α. Yes, I believe I've seen this picture before. And do you know what it's a picture of? 9 0. It's a picture of the subject tree. 10 Α. This is the side of the tree that has the 11 Q. 12 large wound on it? 13 Yes, it is. Α. 14 Do you know when the picture was taken? 0. 15 Α. I do not. 16 Can you see the start of a lateral root 0. anywhere on the picture? 17 18 Aside from the spot we had mentioned earlier, Α. down here at the lower -- lower right center 19 20 of the tree, that area that flares out, that 21 could be the remains of something or it could 22 be wound wood development down there. would require -- that would require testing to 23 24 find that out. If you want to find it out, we

25

can find it out. There's ways to do it.

1		Page 144 But, yes. I see it with the sunshine on
2		it right there, yes.
3	Q.	All right. Take a look at Exhibit 29, please.
4		I'll ask you if you recognize that picture.
5	Α.	I do not.
6	Q.	Are you able to tell whether that is the oak
7		tree that we've been talking about?
8	Α.	Um, no, I'm not able to the reason I say
9		that I don't want to seem stupid but I
10		don't remember these big rocks being
11		over here. Were they over here? Did I miss
12		that?
13		It appears that the road would be right
14		here. So I'm not trying to be difficult, but
15		I don't remember those rocks being right
16		there, and I don't remember that rock being
17		right here. But it does look familiar. It
18		does look like that same response growth down
19		low. So it looks similar it looks right.
20		But I didn't take the photograph; and,
21		again, without some identifying features,
22		again it's definitely a picture of a tree
23		that's suffered some damage.
24	Q.	Okay. So let me ask you to do you still
25		have 28? Maybe can you grab 28.

Page 145 1 MR. LIBERMAN: Can you grab 28? 2 THE DEPONENT: Yes. 3 BY MR. BOPP: If you compare those side by side. 4 Q. 5 Α. Mm-hmm. And I'll represent to you that 29 is a picture 6 **Q.** 7 of the legacy oak tree. 8 Do you -- are you willing to accept my 9 representation that that's the legacy oak tree 10 in 29? 11 This is really interesting, but it appears, Α. 12 from here, that this is -- this is the more 13 recent picture. 14 Meaning 29? 0. 15 Α. 29 was a recent picture. This picture here 16 was probably taken at a time in the past. Because this bark here has since failed, where 17 18 it's not failed in the picture in 28. 19 0. Right. Meaning in 29, the bark -- I'm sorry. 20 21 Because nobody -- they're just going to see 22 the transcript. They won't know what you mean by "bark here." So I'm just trying to --23 24 I'm sorry. The bark on page 29 has collapsed; Α. 25 has been removed from the tree.

1	Q.	Page 146 On the right trunk, right?
2	Α.	Yes, it has shed, and there is bark on the
3		ground down here. Whereas, in Exhibit 28, the
4		bark has not yet sloughed off, which is what I
5		had mentioned earlier that will slowly
6		decompose and fall off.
7		So, yeah, it would appear that they're
8		the same tree.
9	Q.	And so 29, um, is a later picture showing more
10	~	decay if that's the right word or what
11		is the right word if that's not?
12	Α.	It's showing it's showing it's showing
13		whether the damage could be already here on
14		Exhibit 28, it could already be there in the
15		tree or advancing vertically up the trunk of
16		the tree and now bark is continuing to slough.
17		So to your point, Fred, in another two
18		years, it could be another two feet higher.
19		Yes, it can advance, and it will continue to
20		advance more than likely until the tree
21		there's nothing left of it. Because vertical
22		spread of decay is rapid; is very rapid.
23	Q.	· · · · · · · · · · · · · · · · · · ·
24		decay?
25	Α.	It is vertical. It's a reflection of the

		Page 147
1		damage initiated low. To me to me, it does
2		not mean that, say, a snowplow came in high
3		and hit the tree from here to here. It does
4		not mean that. It means that it suffered
5		damage down in this area down here, maybe even
6		right down here, and since now is moving.
7		It's moving vertically.
8	Q.	So, again, just for purposes of the
9		transcript, when you said down here
10	Α.	Down at the base of the tree. The damage
11		could have occurred low near the base of
12		the tree. If this is crushing or impact
13		damage, it could have occurred anywhere from
14		anywhere from three or four feet up the
15		tree to the ground line. It could have
16		occurred. Because you will get decay moving
17		down as well as up, but up is always much
18		quicker because that's just where the tree is
19		more vulnerable, especially in an open vessel
20		tree like a red oak.
21	Q.	And what does that mean, "open vessel tree"?
22	Α.	It means the water-conducting tissues in an
23		oak are very similar to hooking straws
24		together. So they're open. They move so
25		decay moves through them fairly rapidly.

1	Q.	Page 148 So is it fair to say that there was some sort
2		of an injury to this tree in August of 2022;
3		in other words, that some of the injuries that
4		you saw on the site visit predated August of
5		2022?
6		Are you fairly confident in saying that?
7		MR. LIBERMAN: I'm just going to object
8		because I think the first part of your
9		question asked whether there was damage caused
10		in August of '22, and then I think the second
11		part suggested before August '22, and I wasn't
12		sure
13		MR. BOPP: Why don't I rephrase it
14		because it isn't what I intended. So sorry if
15		that try to take it in some smaller bites.
16	ВҮ	MR. BOPP:
17	Q.	Are you comfortable saying that there already
18		existed some damage to the tree in August of
19		2022 based on an event or events that happened
20		prior to that time?
21	Α.	Yes.
22	Q.	Okay. Now, let's say hypothetically that in
23		August of 2022, some heavy vehicles
24		construction vehicles, perhaps tri-axle dump
25		trucks, went over the roots of the tree and

	ı ıx. ııuş	Page 149
1		compacted the ground above the roots of the
2		tree. Let's just assume that happened.
3	A.	Mm-hmm.
4	Q.	Could this what's happening here in this
5		picture in Exhibit 29 be a result of that
6		type of activity?
7		MR. LIBERMAN: Object to form and
8		foundation. You can answer.
9	Α.	No, I would say less than likely in that case.
10		My big concern let me be straight. Just as
11		far as the tree goes, the way I approached
12		this tree was we were looking at two different
13		scenarios. One was something something
14		occurred here in the past. That being said,
15		the something was occurring for the tree
16		all the time. On a daily or weekly or monthly
17		basis was the compaction the general
18		compaction of the tree.
19		This, in and of itself, it does occur for
20		trees. They get scuffed. They get banged up.
21		Compaction over the entire root zone, just the
22		overall conditions, and whether tri-axles are
23		part of that, that's entirely whatever part
24		of the impacts. But that's going to be seen
25		up high.

Page 150 So to your point, would it cause an 1 2 expansion of -- a rapid expansion of a 3 pre-existing wound? I doubt it, but it will cause -- big trucks will cause the dieback in 4 the crown. That's where the tree is saying, 5 6 Hey, I'm losing roots. I'm losing them here, 7 here, here, here, here. And to Tim's point, generally speaking, 8 what's happening on this side of the tree, in 9 10 oaks, it is a reflection of what's going on on 11 that side of the tree. So that being said --12 and then the body language of this tree 13 suggests that it does not have a twisting 14 It's not -- these roots here are not 15 servicing this side of the tree. This tree is 16 going to stand pretty much to form, to me. It's going to have a fan root system that's 17 18 moving out. So impact here means impact on this side of the tree; on the same side of the 19 20 tree. 21 But as far as -- just to be clear, I 22 don't think crushing roots right here is going to -- it's certainly not going to help this. 23 It's going to -- it's going to impact the 24 25 wound response on that side of the tree.

1	Page 151 So in a perfect world, if the tree
2	suffered damage when it did suffer damage back
3	when it said it was damaged roughly in, say,
4	2010 or whatever, if every effort had been
5	made at that point in time to protect it from
6	any other damage, then the tree had a chance
7	to regain some vigor.
8	Damage like this, it's not great, but the
9	tree can move on past it. It can the tree
10	looked like it had better days. So it would
11	have the potential to health-wise recover, but
12	with all the other impact, not so much.
13	BY MR. BOPP:
14	Q. Okay.
15	MR. HARRINGTON: Can I take a break to
16	pee? I mean, guys, we're doing good; we're
17	doing good. I can see the light, but I gotta
18	go. We're killing it. We're good. Thanks.
19	MR. BOPP: We'll take a break.
20	(A break was taken.)
21	BY MR. BOPP:
22	Q. So I'm sorry. I did want to go back to 28 and
23	29 and just pick up on a thread that we were
24	talking about.
25	And so if I heard you correctly, the tree

1		Page 152 had suffered an injury and was attempting to
2		recover from it, in general terms; is that
3		fair?
4	Α.	Yes; mm-hmm.
5	Q.	And that it may well have had a fighting
6		chance to overcome the injury if there was
7		also not significant compaction around the
8		tree; is that fair?
9		MR. LIBERMAN: Object to form. You can
10		answer.
11	Α.	Yeah. No, that's incorrect. You mistook what
12		I was saying. Given the site given the
13		overall site impacts, which have been
14		occurring probably well before this injury
15		ever happened to the tree in let's just say
16		2010, 2019, whenever the tree was already
17		probably in a fairly weak state weaker. It
18		does not mean it cannot have foliage on the
19		tree. They'll have foliage, but it's
20		predisposed at that point, to any other
21		injuries to come along this included to
22		only diminish the tree's ability to then
23		respond to damage.
24		So that's pre this damage during the time
25		of this damage. And then to the point of the

		D 453
1		Page 153 time period we're talking about, it's yeah,
2		you do not want anything I'm not an
3		advocate of anything going on around trees
4		that have been damaged. I'll go on the record
5		as saying that. You want no activity in here
6		around this tree at any point in time.
7		But it was definitely it's amazing in
8		that the tree was attempting still to heal,
9		but the amount of dieback in the top of the
10		tree is really the story here more so than the
11		more obvious wound down low. You hate to see
12		that, but the dieback up above is the part
13		that makes you go, Ooh, she's lost roots all
14		over the place. That's the hard part.
15		When certain things happened, if certain
16		things happened, that goes to the details.
17		But that's the story of the wound wood
18		response, to me in my opinion.
19	ВҮ	MR. BOPP:
20	Q.	And as you had said earlier, the dieback
21		the dieback in the you just call it dieback
22		or was it dieback in the canopy or
23	Α.	Decline. Yeah, decline, dieback decline
24		general decline of the canopy.
25	Q.	That's tied to damage to the roots?

		Dogo 154
1	A.	Page 154 That's tied to damage to the roots and/or
2		well, in this case, and a loss of permeable
3		surfaces; the road being paved, potentially
4		being treated with and, again, this is
5		purely but quite often before they pave a
6		road down, they will they'll be spraying a
7		herbicide down to keep weeds from coming up
8		through the road.
9		I do not know if this was the case on
10		Merry Meeting Road. Who knows. Likely, the
11		State of Maine, they just went for it and just
12		paved it. But either way, they're losing
13		permeable surfaces. Even a gravel road is a
14		permeable surface. Once it's paved, now that
15		is, in the case of that tree, covering about
16		40 percent of its root system out there. So
17		that, in and of itself, is the last thing the
18		tree needed at that stage of its life.
19		So, um, that's my take on that.
20	Q.	Okay. Would it be fair to say that a tree in
21		the condition that this tree was in or around
22		August of 2022, if construction equipment
23		for example, tri-axle dump trucks were
24		pulling in and out around the tree over the
25		root system, that would have a negative impact

Page 155 on the health of the tree. 1 2 That's fair to say? 3 Yes, that's fair to say. Α. All right. Go to Exhibit 30. 4 Q. 5 MR. HARRINGTON: It's not that long. 6 It's not that long. Four pages -- three 7 pages. 8 MR. BOPP: Don't you have four? Okay. 9 I'm going to staple these. BY MR. BOPP: 10 11 I hand you what's been marked as Exhibit 30 Ο. 12 and ask you to review that. 13 MR. LIBERMAN: Thank you. 14 Α. Okay. BY MR. BOPP: 15 16 Do you generally agree with the message of 0. this article? 17 18 MR. LIBERMAN: I'm just going to object to the foundation in that I don't know that 19 20 he's had the opportunity to read the entire 21 article. MR. HARRINGTON: Well, we'll read it. 22 23 MR. LIBERMAN: Are you asking him to read 24 the entire article? 25 MR. BOPP: Oh, I thought he was.

MICHAEI	IX. IIU	gnes on 04/25/2024
1		Page 156 MR. LIBERMAN: He probably will if you
2		want him to, but if you have more targeted
3		questions about it, then
4		MR. BOPP: That's the only question I
5		have.
6		MR. LIBERMAN: His copy has it looks
7		like it's broken down into sections; like
8		numbers, one, two, three, four.
9		MR. BOPP: Oh, I see. I don't know.
10		This is useful to just they don't mean
11		anything, but
12	A.	Okay. So how would you like to approach this?
13		There's a lot of information in here.
14	ВҮ	MR. BOPP:
15	Q.	Right.
16	A.	And it's a basic summary for homeowners to
17		avoid Preserving trees during construction
18		processes.
19		What would you like to figure out about
20		it?
21	Q.	Well, let me just ask you one question.
22		Have you ever seen this article before?
23	Α.	I have never seen this one in particular, no.
24	Q.	That's all right. We can move on.
25		MR. BOPP: Let me take one more quick

Page 157 break, if that's all right. 1 2 MR. LIBERMAN: Sure. 3 (A break was taken.) BY MR. BOPP: 4 Mr. Hughes, let me show you what's been 5 labeled as Exhibit 31. 6 7 MR. BOPP: You're not helping anymore? 8 BY MR. BOPP: Ask you to take a look at that. 9 0. 10 Α. Okay. 11 Do you recognize the tree in that photo? 0. 12 That appears to be the subject tree, yes; Α. 13 mm-hmm. 14 I'll represent to you that it is a picture of 0. the legacy oak that we've been talking about. 15 16 Let me ask you this about this photo. You can 17 see in the foreground at the bottom of the 18 photo is a picture of road; is that right? 19 Α. Yes. 20 Q. I'll represent to you that that's the Merry 21 Island Road. And you had mentioned earlier 22 about the consequences of paving the road, the impact that would have on -- I'm not 23 24 trying to put words in your mouth, so correct 25 me -- the impact that would have on the root

Michael R. Hughes on 04/25/2024 Page 158 system of the road because the surface was no 1 2 longer permeable; is that fair to say? 3 Yes; mm-hmm. Α. And how would you -- how would that impact 4 Q. evidence itself in the tree? 5 How would that impact visually within the 6 Α. 7 tree? 8 Q. Right. 9 Like, what would you see on the tree to 10 say, Oh, yeah, the fact they paved over a 11 portion of its roots caused that to happen? 12 It would, more than likely, be -- again, in Α. 13 the case of this tree, as far as root distribution, where are the roots that are on 14 a given side of a tree. It probably would be 15 16 showing up on the road side of the tree. Q. On the --17 18 On --Α. On the bark -- or on the trunk, I should say? 19 0. 20 Α. In the crown; the top of the tree. It would 21 be showing up up there. 22 Okay. And is that when you had talked about Q. 23 dieback? 24 Dieback, yes; decline, yes. Α.

Ο.

25

So it wouldn't show up in the picture of the

1		Page 159 trunk that we have here; is that fair to say?
2	Α.	It would not show up at that area right there,
3		no. That's highly unlikely it would show up
4		there.
5	Q.	Do you see running up and down the trunk there
6		are some vertical lines, if you will?
7	Α.	Mm-hmm.
8	Q.	You just have to say yes. Sorry.
9	A.	Yes, I do see that.
10	Q.	No worries.
11		What do those represent?
12	Α.	Likely, those if you look really closely at
13		that photograph, about four foot above the
14		ground right about right in here.
15	Q.	Okay.
16	Α.	In that area, there's a crease that goes
17		across the tree right there.
18	Q.	Yeah, right here?
19	A.	Yes. So it looks to me on that side and,
20		again, if we were on site, it's easier to
21		really go over this stuff. But and it's
22		been a while since I've looked at this in
23		person, but it looks to me like that is an
24		area where something bumped the tree at one
25		time, which would also cause that bark to

		Page 160
1		create that those kind of ridges right
2		there; that compression. It looks like
3		something there's an interruption of bark
4		right here, of the plating, like something
5		just dinged it, bumped it, backed into it.
6		And that would contribute to this bark here
7		similar to down low on the other side.
8		But here and I can't say that I made a
9		big note of that at the time, but it is there.
10		It's part of the overall abuse, you know, the
11		tree has had to put up with over time. But
12		whether or not something backed into it and
13		bumped it, it's possible.
14		But certainly, to your question, that
15		dark line going up indicates that the tree
16		as the tree torsions this way and that way
17		twisting, that could end up becoming an area
18		over time that looks like the other side of
19		the tree where the bark is starting to slough
20		off.
21	Q.	So those lines going up and down I mean,
22		there are other lines going up and down the
23		tree as well, right?
24	Α.	Yes, those are normal bark fissures. But that
25		darker line right there and above the I'll

		Page 161
1		call it the impact site, but, again, no
2		history those darker purplish lines moving
3		away indicate that that might be wood that, at
4		this point, is starting to decline within.
5	Q.	And when you talk about the darker lines
6		moving away, do you mean moving away from the
7		black dot that's in the middle?
8	Α.	Exactly, yeah.
9	Q.	All right. Let's take a look at Exhibit 32;
10		ask you to take a look at that and whether you
11		can identify it.
12	Α.	It looks like the opposite the back side of
13		the legacy oak.
14	Q.	So the side opposite from where the scar
15		the wound where the wound is? That's
16		right?
17	A.	Yes, correct.
18	Q.	What is that material that's kind of right in
19		the wedge there of the two trunks; can you
20		tell?
21	Α.	It looks like a piece of bark falling down in
22		there in the upper part of the photograph
23		wedged in between. But throughout, what we
24		have what this this tree is basically an
25		old stump sprout so it grew from a stump. So

when the land was possibly harvested in, say, 1 2 1940, um, you have a series of sprouts that 3 will grow around a stump, and this is -- these are the last two survivors of what were 4 5 probably a dozen or two dozen sprouts coming up, as you'll see in cutover conditions, and 6 7 these are the survivors. That's why most of Maine is consisting of stump-sprouted trees at 8 9 this point. They're all multi-stem. 10 through town here you see it. 11 So that being said, somewhere down in 12 there is an old decayed stump. So the trees 13 basically have formed two trees that are now 14 mashing together. And as I'll explain it 15 sometimes to people is that if this were a 16 healthy tree, in about five years, you would 17 not see that bark or that bark. It would be 18 crushed in between the two stems. So it's what's known as included bark 19 because it's included into the stem of the 20 21 There is no binding. There's no fusion tree. 22 of that wood. So we're looking at two trunks coming down competing for the same space, is 23 what it comes down to; two, basically, trees 2.4 25 competing for the same space.

Page 162

1	Q.	Page 163 And what are the looks like growths on the
2		left-hand side in the upper left-hand corner?
3	A.	That's a concern. That is a fungi that is
4		located right in the outer surfaces of the
5		wood, and that is not a good sign. That is a
6		sign of a tree that's losing all of that area
7		of conduction of water up the stem. Whether
8		it came from the the impact we saw over
9		here, it's hard to say or if it's just general
10		decline at this point. But it is located just
11		right in the sapwood of the tree, so it
12		reduces the strength of that wood
13		substantially and quickly. So that is a
14		concern.
15	Q.	Do you know if the fungi was present during
16		your site visit?
17	Α.	I can't recall if it was present because these
18		are it's potential that it was. There's
19		potential that it was. My guess is that it
20		would be, if this photograph I'm going to
21		say that it was, yes.
22	Q.	As we sit here today, you don't have a
23		specific recollection of seeing fungi on the
24		tree during the site visit?
25	Α.	Of the of all of the things that the tree

1		Page 164 was representing and showing, this is one of
2		the lesser lesser concerns. But it's
3		certainly a concern, without a doubt. But
4		given that the tree is in such radical decline
5		at such a high rate of speed at this point,
6		it's another one of the damning factors
7		involved. So
8	Q.	And what would cause a fungi like that to grow
9		on the side of the tree?
10	Α.	Most of the time, this is going to correlate
11		the sapwood rot is going to correlate with
12		some root decline.
13	Q.	And is it fair to say that it would be roots
14		that were damaged on the same side of the tree
15		that the fungi appears?
16	Α.	More than likely, yeah. Because, again, we're
17		talking about contributing roots. And here
18		it's a little bit more obvious on this side of
19		the tree. We have one, two, three buttress
20		roots coming up. So this buttress root that
21		is located right above is closest to the road.
22		And so that would be probably the root mass,
23		if you will, that's out there that has the
24		most compromise in it compromised the most,
25		and so we're seeing the fungi starting to

Page 165 spring up on that side. 1 2 So let's just say, hypothetically, a heavy **Q.** 3 vehicle were to come up the road towards the tree and then turn right before the tree, um, 4 and the vehicle would move from the paved road 5 to the unpaved earth surface next to the tree. 6 7 Which is going to cause more compaction of the earth in the surface above the roots; 8 9 the vehicle moving on the road or the vehicle coming off and going onto the unpaved portion 10 11 that's near the tree? 12 Well, the main problem with the road is the Α. 13 imperviousness of it. So you have roots that 14 were just basically taken out of existence, number one; not to mention if they had to 15 16 excavate ahead of putting the road in, which more than likely -- again, I say more than 17 likely -- they can end up doing is first 18 grading doing their job to get the road 19 20 prepared, potentially putting down any kind of 21 weed control, herbicides, then paving. 22 But certainly, to leave a road -- to leave a hard surface and come onto a soft 23 24 surface is going to have more impact given a 25 situation like this where there's an existing

1		Page 166 road already. Any roots that were over there
2		probably have been compromised for a while.
3		So if a vehicle were to come in around
4		this tree right now, pressure-wise it's going
5		to be harder on the tree once it's off the
6		road.
7	Q.	Okay. In Exhibit 32, we don't see any bark
8		peeling off the tree on this side of the tree;
9		is that right?
10	A.	It does not appear there's any bark, at this
11		point, falling off.
12	Q.	How does the bark look, generally, in this
13		picture, absent we've talked about the
14		fungi, but the rest of the bark.
15		Are there issues that you see with the
16		rest of the bark?
17	A.	I believe that this side of the tree is
18		probably among the more the healthier sides
19		of the tree, on this stem at least. This stem
20		here, I'd have to go
21	Q.	I'm sorry. The right stem?
22	A.	The right stem appears to be the healthier of
23		the two. The roadside stem appears to be the
24		less healthy. And I'd certainly say between
25		the sapwood decay and the damage on the front

1		Page 167 side, you're kind of running out of live
2		tissue on this stem here.
3	Q.	Being the left-hand stem?
4	Α.	Yeah. And again, testing would flush that out
5		a bit and tell you how much live is there.
6		But from here, the healthier bark appears to
7		be on the stem farther away from the street.
8	Q.	Let's take a look at Exhibit 33; ask you to
9		take a look at that. And I'll represent to
10		you that that's another picture of the legacy
11		oak tree. I think this would be moving if
12		I've got my bearings right moving counter-
13		clockwise around the tree, as compared to 32?
14		MR. HARRINGTON: Correct. That would be
15		the west side.
16		MR. BOPP: Okay. All right. Easy.
17		MR. HARRINGTON: I know. I'm just
18		saying. I had to think it over. I thought
19		you were talking to me.
20		MR. BOPP: No.
21		MR. HARRINGTON: Oh.
22	ВҮ	MR. BOPP:
23	Q.	Does that appear to be correct that we're
24		moving counterclockwise from
25	Α.	Yes, mm-hmm.

Wichael K. Hughes on 04/25/2024		
1	Q.	Page 168 Anything of note in this picture, Exhibit 33?
2	Α.	Yeah. Yes, there is.
3	Q.	Okay. Please elaborate.
4	A.	So we're looking at the tree 180 degrees away
5		from the road on the opposite side of the
6		tree. And I think what this side is showing
7		us here that the tree is compromised in other
8		areas of the trunk, and it is adding muscle,
9		if you will, structure wood, on the existing
10		buttress root here. And that would take time
11		to do that, but it has an increased buttress
12		root here on this side and over here.
13	Q.	I'm sorry. I'm just going to pause you.
14		When you said the increased buttress root
15		on this side, you were pointing to the right
16		side of the picture?
17	Α.	It is in the lower right-hand part of the
18		photograph to the right of that little bottle.
19		And that seam rather pronounced seam up
20		between those buttress roots, that's an
21		indication, to me again, to me, of a tree
22		that's it's got a little bit of movement.
23		It's got a little bit of starting to run
24		into some problems with stability. It's got
25		again, we have to assume on the inside we

	•	Page 169
1		have an old rotted stump down in there
2		somewhere. Trees are growing over that stump.
3		They're kind of hugging around what was there.
4		And now with this potentially, with this
5		damage that occurred on the large scar we had
6		talked about, in the case of this stem, which
7		is the 180 degree away from the road stem,
8		it's adding it's adding muscle, if you
9		will; adding wood to this side in a response.
10		The response growth is obvious around the
11		wound over here, but it's adding wood
12		everywhere. It's adding wood in order to
13		support itself to make up for loss over here
14		and potentially this is interesting here;
15		this area right in here. Because it looks
16		almost to me like in the past if this area
17		in here is really interesting to me, which I
18		go back here just a moment. Maybe it's just
19		the angle. Yeah, it was more just the angle.
20	Q.	I'm sorry. Just describe, for transcript
21		purposes.
22	Α.	I'm going to go back to Exhibit 32 just to get
23		a better look on the
24		THE DEPONENT: What would what was
25		this side, you said?

1		Page 170 MR. HARRINGTON: That is the south side
2		no, that's the north side.
3		THE DEPONENT: I was going to say.
4		MR. HARRINGTON: Sorry. That is the
5		north side.
6	Α.	I honestly think that we should avoid using
7		directions at this point because somewhere
8		it's probably right in between, and it's
9		southwest or northwest, and it'll get awful
10		confusing transcript-wise, you know, to and
11		I'm you know, but I'll try and refer to it
12		in relation to the road.
1 2 2	DV I	MR. BOPP:
13	DI I	MR. BOPP:
13 14	Q.	Mm-hmm.
14	Q.	Mm-hmm.
14 15	Q.	Mm-hmm. That on the area 90 degrees from the road
14 15 16	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some
14 15 16 17	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some buttress roots that are showing up in this
14 15 16 17 18	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some buttress roots that are showing up in this photograph that don't show up in the Exhibit
14 15 16 17 18 19	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some buttress roots that are showing up in this photograph that don't show up in the Exhibit 33 that do show up in Exhibit 32. But the
14 15 16 17 18 19 20	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some buttress roots that are showing up in this photograph that don't show up in the Exhibit 33 that do show up in Exhibit 32. But the tree definitely has added wood on these
14 15 16 17 18 19 20 21	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some buttress roots that are showing up in this photograph that don't show up in the Exhibit 33 that do show up in Exhibit 32. But the tree definitely has added wood on these buttress roots; pronounced development, to
14 15 16 17 18 19 20 21 22	Q.	Mm-hmm. That on the area 90 degrees from the road surface on the northerly side, we have some buttress roots that are showing up in this photograph that don't show up in the Exhibit 33 that do show up in Exhibit 32. But the tree definitely has added wood on these buttress roots; pronounced development, to make up for strength loss.

1	Page 171 down. So, yeah, it's interesting.
2	MR. HARRINGTON: Aah. Sorry. It's
3	getting late.
4	MR. BOPP: I'm not going to use that.
5	MR. HARRINGTON: Okay.
6	MR. BOPP: I'm not sure how many pages
7	this is.
8	MR. HARRINGTON: 35, right?
9	MR. BOPP: Yeah. Is that part of it,
10	though?
11	MR. HARRINGTON: Why it's not in right
12	order?
13	MR. BOPP: No.
14	MR. HARRINGTON: I think I dropped that
15	one. But this is in the right order. This is
16	just a general, you know
17	MR. BOPP: That's your last page?
18	MR. HARRINGTON: Yeah, it's just a
19	general you do some research, you learn
20	about these things.
21	BY MR. BOPP:
22	Q. I'm going to hand you what's been marked as
23	Exhibit 35. I'm not going to ask you to read
24	it all, but I will ask you if you have ever
25	seen or read this article before?
45	seem of read chirs afficie before;

Page 172 1 Α. I have not, no. 2 **Q.** Okay. Let me see when it was written here; see if it 3 Α. 4 has any information. Doesn't really say. 1960 until he retired in 1976. 5 Let's see what he covers in here. I'd 6 7 like to read this. 8 Q. We'll let you take a copy home with you. It looks great; it really does. 9 Α. You know. 10 it's interesting because some of the older --11 the older information is very direct and very 12 more to the point, and it stands up today, a 13 lot of it. But the way it's written -- that's 14 where these photographs came from -- it's really good stuff. So I'd be happy to look at 15 16 that. 17 Well, this is your exhibit so --18 MR. LIBERMAN: I can give you a copy later on, Mike. 19 20 THE DEPONENT: Okay. That would be good. 21 Because if he's going to refer to it in the 22 future, then I'd want to go through it. BY MR. BOPP: 23 24 So we'll move to 36. Ask you to review 0. 25 Exhibit 36, please.

1	Α.	Page 173 Okay.
2	Q.	You've had a chance to review Exhibit 36; is
3		that right?
4	A.	I have, yes.
5	Q.	Thank you.
6		And is this a typical third order lateral
7		system of a red oak I guess I should say
8		root system?
9	A.	In Maine? It's impossible to say, you know
10		because you know, what this doesn't here
11		he does go into variations of soil conditions,
12		and I'm sure this is an extensive article.
13		Yeah, he's just starting to say something
14		really important there where the paper runs
15		out of room.
16		But, no could it be? It could be. Is
17		it representative of the legacy oak? Could.
18		We don't know anything about the soil geology
19		or what the profiles look like down underneath
20		there.
21		But the point being is the key the key
22		thing to remember is what we've already
23		covered; is between what he says of 12 inch
24		and 18 inches, most of the roots are existing
25		in Maine between there. It's pretty accepted.

1		Page 174 It's rare to see them to a depth of 33 feet or
2		more in Maine. We just don't have that type
3		of soil as often.
4		It can happen up in Brunswick where you
5		have a very sandy soil. Those roots can be
6		just going very deep. Around Yarmouth, we're
7		going to be looking at 12 to 18. And up in
8		Edgecomb, it's going to be over the top of a
9		lot of ledge since there's so much ledge up
10		there.
11		So I would assume, for that oak, that
12		most of the roots were up pretty close to the
13		surface.
14	Q.	Okay.
15	A.	Deep enough to hold the tree up against a lot
16		of wind, but
17	Q.	And if damage occurred to this root system at
18		either points 1, 2, 3 or 4, at which of those
19		points would damage have most impact on the
20		health of the tree?
21	Α.	Um, depends on the soil conditions. The
22		reason I say that is this. Okay. So in the
23		case of our tree, we know when were those
24		how long ago was the triangle of access paths,
25		whatever you want to call them, put in. And

if the tree was vigorous and healthy back in, 1 2 say, 1960, and then they put those paths in, 3 well, the primary damage then is out at 3 and Because the tree is like, Oh, boy. I've 4 4. been impacted badly out there. But I'm a 5 young vigorous tree. I'm going to make up for 6 7 that. So now I'm going to move my root system where available soil is, 2000 -- or rather 8 9 they decide to move the road at another point 10 in time, whatever that might be. I have no 11 idea. Suddenly, the road goes in. 12 Well, now they've capped off 1 and 2 -or 2, primarily, in that case. Now the 13 14 greatest damage is on 2. So now it's lost 3 and 4 on the outside, 2 on the roadside, and 15 16 now we get to where we're talking about. now the tree is boxed in. It's got its roots 17 18 way in here, its only surviving roots. 19 then perhaps we have something -- a series of 20 things or one thing -- I have no idea -- going 21 in and taking up roots in zone 1. So that's 22 devastating. So they're all devastating. shouldn't say devastating, but they're all 23 24 hard hitting to the tree. 25 But that's what generally occurs.

Page 175

		Page 176
1		tree is able for a while, back in 1960, to
2		make adjustments, say, to the outer damage;
3		and it does. It's a young tree, and it's able
4		to rebuild its root system in here. And any
5		subsequent nicking, chewing away at that is
6		equally devastating to the tree because now
7		it's lost pervious surfaces or major roots
8		here get crushed, in the case of this legacy
9		oak.
10		In the case of this elm out front sitting
11		on the lawn, it's readjusted to Main Street
12		being paved years and years and years ago. So
13		if suddenly you guys want to put a driveway
14		straight into your place to get more parking,
15		then any one of these would be devastating to
16		the tree.
17		So that's why again that's why you go
18		back to this term this is a very fluid
19		situation that's been happening for a while.
20	Q.	If an event happened that seriously impacted
21		the tree root at point 1 such that the root
22		was compromised, would that automatically mean
23		that the rest of the root going out away from
24		that point would also be compromised, if that
25		makes sense?

		Page 177
1	Α.	The issue with damage in that close to the
2		tree, um what I generally tell people here
3		in town when people ask that question is that
4		from the time you damage a big root, um,
5		you're going to have the builders are gone.
6		They've moved on to other jobs. It's about
7		five to seven years after the builder is gone
8		that you're going to get you're going to
9		get your decay starting to move into the base
10		of the tree where stability starts to become a
11		problem.
12		So to your point, yes, anything that's
13		connected to that root, that's gone. That's
14		that fan that I talked about earlier. That
15		fan is gone. It's taken out of action. So
16		bit by bit, this tree has lost percentages of
17		its root system in different areas.
18	Q.	All right. Let's take a look at Exhibit 37,
19		please.
20	Α.	Thank you.
21		MR. HARRINGTON: What? I'm trying to
22		keep the old man out but, it's hard.
23		MR. BOPP: Yes, it is.
24	ВУ	MR. BOPP:
25	Q.	So on Exhibit 37, I just want to focus your

1	<u> </u>	Page 178 attention on part B, and that's a root system
2		there with three pathways around. Let's just
3		say the tree is in the center.
4		Does that all make sense?
5	Α.	I'm working on it.
6	Q.	Okay.
7	Α.	So who added the arrows?
8	Q.	Someone other than the author of the article.
9	Α.	I was going to say. So we have an
10		interpretation of an article; is that what
11		this is?
12	Q.	Well, the question I'm just trying to set
13		up the scenario for the question. So really,
14		what's important is there's a diagram of a
15		tree root system there.
16	Α.	Mm-hmm.
17	Q.	And what the point of the question is, if a
18		heavy truck were to take paths 1 versus 2
19		versus 3 around the tree, which pathway would
20		cause more damage to the root system of the
21		tree; taking path 1, path 2 or path 3?
22	Α.	Depends. It depends. It depends on the soil
23		conditions. Um, your fine your fine, fine
24		roots are going to be your fine roots if
25		you pick up a tree, and you stick it

Page 179 upsidedown in the ground, its crown is 1 2 reflecting generally what's underground. 3 flatten it out. So your fine, fine branches on your tree are way out at the tips. 4 can't afford to lose those fine limbs; all the 5 6 fine buds. 7 So if we think of it that way, and we 8 picture a root system as that elm tree out 9 front, splayed out in the ground, those fine 10 tips are way out on the edge. So crushing 11 over the top of those is devastating. Yet, if 12 a truck passes very close to a trunk, it 13 potentially has the potential to crush the 14 roots that -- crush the major roots that 15 service the outer roots anyway. 16 potentially one could be more devastating. 17 And let's look at it another way. 18 let's -- for the purposes of this drawing, if we have -- we have the tree, and we look at it 19 20 as a wagon wheel --21 MR. LIBERMAN: Before you get too far 22 along, if you're going to draw on something, make sure it's on something that you wouldn't 23 mind making part of the exhibit. So if you 24 25 want to do it on a fresh piece of paper.

		Page 180
1		THE DEPONENT: Okay. That's fine.
2	Α.	So we'll just make this simple. Let's look at
3		the tree. So we've established already that,
4		um, the road is in. The road went in. Here's
5		the road; Merrymeeting Road. So that is
6		taking 40 percent off, let's just say.
7		So to make this relevant to this picture
8		right here of what we're talking about, is
9		that if we're talking about an area, say,
10		right over here, and let's say the vehicles
11		back in this far. They back in right here.
12		So now we've lost that percentage of the root
13		system, okay.
14		If they so depending how far vehicles
15		back in over here is going to be more of a
16		percentage. If they're in tight here, though,
17		and they go in the same distance, potentially,
18		they're going to be as this drawing has it.
19		What's wrong about this drawing is that
20		well, I can't say it's wrong about it, but
21		the percentage of root system in close is
22		going to be greater than the percentage of
23		root system farther out. So if we're coming
24		in here, we're going to affect all of the
25		roots in this entire area here.

		Page 181
1		So I would say to answer your
2		question 1 is going to be more damning than
3		3 in that given situation.
4	BY	MR. BOPP:
5	Q.	Do you mind if we make that drawing 37-A?
6		It's going to help for someone reading the
7		transcript, they'll know what you were working
8		on.
9		MR. HARRINGTON: 37-A?
10		MR. BOPP: Right?
11		MR. LIBERMAN: Yeah, I think that's
12		right.
13		MR. BOPP: And then we'll do the same
14		with this; have just her keep it, and then
15		we'll all get copies that way?
16		MR. LIBERMAN: That works for me.
17	ВУ	MR. BOPP:
18	Q.	All right. Let's turn to Exhibit 38. I'll
19		ask you to review that, and let me know if
20		you're familiar with it.
21	A.	Yes.
22	Q.	And what is this form used for?
23	Α.	This is used for breaking down the cost of
24		replacing a tree using an interest compounding
25		method whereby you you're going to grow the

1		Page 182 tree to equal size to what it is and what it
2		costs to grow that tree, a 2-inch sapling, to
3		a legacy oak; to a 36-inch oak or whatever.
4		So what it does is, instead of trying to
5		figure out the value of the big tree, you're
6		saying what's reasonable to do you're
7		bringing in a small tree. Then how many years
8		to parity, and then you're factoring an
9		interest rate in there and the cost of the
10		maintenance and the cost of the installations,
11		and all of that goes into building a tree out.
12		It's a good technique.
13	Q.	You didn't use it with respect to this tree?
14	A.	I was not asked to provide a valuation.
15	Q.	Okay. Can you tell me how does line 10
16		work, the interest rate; how is that
17		calculated?
18	Α.	It's based on, um, whatever interest rate, 6
19		or 7 percent, that is more it doesn't have
20		to be 6 or 7 percent, but it can be what the
21		going interest rate is, and it's just simply
22		all that is doing is compounding that cost.
23		So if your money were spent elsewhere or
24		invested elsewhere
25		MR. HARRINGTON: Oh.

		Page 183
1	Α.	
2		compounding that interest rate to show that
3		you're not losing money waiting for a small
4		tree to grow to a large size.
5	ВҮ	MR. BOPP:
6	Q.	So is it similar to a time value of money
7		concept?
8	A.	Pretty similar, yes.
9	Q.	So to I mean, would you put an interest
10		rate in there that would be equivalent to
11		where you could safely invest your money over
12		the same period of time; something like that?
13	Α.	Yeah. I think the last time I did it a few
14		months back, I think I had six and a half
15		percent or so in that slot. But that's
16		variable. So you can say you know, the
17		people can receive the report and go, Well,
18		should we get shouldn't we have seven and a
19		half percent in there? It's like, that's
20		fine, and it will solve that. You know, the
21		bank can make that adjustment or whatever, but
22		
23	Q.	And in what types of scenarios would you use
24		this form?
25	Α.	Um, this form is really ideal for when you

Page 184 when you cannot find a -- when you need --1 2 when you need a solution for returning a 3 landscape to its previous condition, but it can utilize different ways of going about it. 4 You're not just -- I use it quite often where 5 you lost screening, say, between two houses, 6 7 and four old trees were taken down by accident 8 or whatever and putting a replacement screen in; what's the value of that screen and then 9 10 growing that screen to achieve the same 11 objectives. That's the key where this helps 12 you out. 13 So if you have two -- like Brunswick 14 situation actually happened like this -- but 15 two houses where they don't want them to look 16 at each other; and, really, the value is 17 gained greatest when the trees gain 25 foot 18 height. It doesn't really matter after that 19 point too much. So cost compounding can utilize different 20 landscape plans, grow them, what's the cost, 21 22 what's the interest, what's the years to parity, what's the maintenance cost. And it's 23 very flexible and offers a nice -- nice way to 24

25

go to -- it helps people to understand, also,

1		Page 185 from the standpoint of making a judgment call,
2		and is this fair and reasonable compared to
3		the trunk formula method, which is going to
4		heavily depreciate the tree. It's going to
5		take into account all of the negatives,
6		species, condition of the tree. You're
7		hammering away at all these things and then
8		placing a value, and that value can be
9		sometimes highly challenged. Whereas, really
10		the point is, we'd just like a screen back.
11		So instead of tearing apart the existing
12		tree and, you know, beating it to death,
13		you're just saying, Hey, a value is lost here;
14		how can we get value back. So this tends to
15		be more palatable, I think.
16	Q.	So let's say you had two property owners, and
17		there was a screen of trees in between them
18		that provided privacy so you couldn't see
19		through each side had privacy. And one of
20		the owners, either mistakenly or otherwise,
21		clearcut the screen; so clearcut all the trees
22		down.
23		This could be used as a way of
24		determining the compensation owed to the other
25		owner for that?

		Page 186
1	Α.	Yes, it's it's basically, it's called
2		cost of cure to cure the situation. So it's
3		you're not trying to do a one for one. You
4		don't have to do the replacement value. Okay,
5		I lost a 14-foot arborvitae. I need to find a
6		14-foot arborvitae, which can get very
7		expensive and unreasonable because now we're
8		going to ship we found one in Indiana.
9		We're going to have it specially shipped on
10		the back of a truck to replace that one tree
11		and on and on.
12		And you can have a situation like you
13		described costing a million dollars. The cost
14		compounding method simply says it's a
15		reproduction method that's your key word
16		to reproduce the situation; and how long will
17		it take, what is our money being out of
18		circulation worth but the value is
19		returned.
20	Q.	So if the screen let's say the screen was
21		composed of all mature trees, they got clear
22		cut, and now we can't find mature trees of
23		that age, size, et cetera.
24	Α.	Mm-hmm.
25	Q.	So we're going to replant now younger trees.

1		Page 187 Let's say I don't know what are we at?
2		15-year-old trees there before or let's say 20
3		year-old-trees. Now we're going to replant
4		2-year-old trees.
5		This is a way to figure out the value
6		that's been lost by having to replant
7		2-year-old trees to replace the 20-year-old
8		trees; is that fair?
9	Α.	Okay. Well and this is a little bit
10		different than what we're talking about here
11		with this tree. But to your point, somebody
12		mistakenly goes in and cuts them down, and you
13		have nothing but stumps or even stump grinding
14		in some cases. So you have no way of really
15		doing an assessment of, Well, what was here.
16		Oh, they were gorgeous. They were a beautiful
17		screen. We loved the shade. But the trees
18		aren't there, so you can't you don't know
19		
20		So trunk formula goes out the window.
21		Replacement value goes out the window. You're
22		looking to cure a situation, which is what
23		this what were the benefits? Well, we
24		didn't want to see each other. You know, yes,
25		they were great big trees, but we don't know.

		D 100
1		They're not here anymore. How tall were they?
2		I don't know. They were big.
3		So really, you're actually, in those
4		cases, forced to go to this, even though it's
5		a good way to go because you have nothing to
6		go off of. There's no other you can't
7		assume that these other trees were 100 percent
8		value. No trees are. So really, you don't
9		have those to go by.
10		And it's kind of an unhappy medium
11		sometimes because people say, Well, my trees
12		were huge, and I loved them; but you had no
13		way of assessing that. So when the trees are
14		completely gone, this becomes the go-to method
15		because then you can just regrow a screen.
16	Q.	I'm trying to wrap my mind around how it
17		works.
17 18		works. So in my example, you replace we know
18		So in my example, you replace we know
18 19		So in my example, you replace we know that they were 20-year-old trees, and we know
18 19 20		So in my example, you replace we know that they were 20-year-old trees, and we know the size and the kind of the trees, and we're
18 19 20 21		So in my example, you replace we know that they were 20-year-old trees, and we know the size and the kind of the trees, and we're replacing them with 2-year-old saplings, if
18 19 20 21 22	Α.	So in my example, you replace we know that they were 20-year-old trees, and we know the size and the kind of the trees, and we're replacing them with 2-year-old saplings, if that's even the right term for 2-year-old
18 19 20 21 22 23		So in my example, you replace we know that they were 20-year-old trees, and we know the size and the kind of the trees, and we're replacing them with 2-year-old saplings, if that's even the right term for 2-year-old trees.

1		Page 189 And so we know the cost of the 2-inch
2		trees.
3	Α.	Yes.
4	Q.	But now we want to somehow figure out to
5		take us from 2 inch to 20 inch or I said 20
6		years.
7		This formula allows us to do that?
8	A.	This does, yes.
9	Q.	Like, conceptually, how does it do that?
10		I mean, I'm trying to think of it in my
11		mind. Is it because I guess are you able
12		to just explain to me how it does that?
13		Like, we know the cost to put in these
14		2-inch trees.
15	Α.	Mm-hmm.
16	Q.	How does it then calculate the 20-inch or the
17		20-year trees using this?
18	Α.	Well, you're going to have years to parity
19		first. You have your installation first
20		you're going to establish, Well, how many
21		trees are we putting in. Okay. We're going
22		to put in a 2-inch tree. Then what are the
23		what is the installed cost, getting that grand
24		total. It's a spreadsheet. I can't really
25		describe it just sitting here. It's an Excel

		Page 190
1		spreadsheet.
2		But then your key is, how many years is
3		it going to take to grow a silver maple or red
4		oak those are both going to be radically
5		different to that 20-inch size. So
6		supposing you say it's going to take 20 years
7		to grow. Well, that cost is compounding
8		your installed cost is compounding to alter in
9		that time.
10	Q.	Based on the interest rate?
11	Α.	Yes. And the values will come up very, very
12		close to where you would be otherwise if you
13		go through different methods. But it gives a
14		more tangible way of approaching it that
15		people say, Oh, that makes sense to me because
16		I can see a 2-inch growing to this 20-inch
17		tree.
18		And it could be argued, Well, why did you
19		choose 20 years? Okay. What would you like;
20		25, 17? So you try and use your professional
21		judgment. And then you have your maintenance
22		costs on top of that; your delivery costs, the
23		cost to grind out the stumps if they're still
24		there, and all those other costs, and that
25		goes into a bottom line item.

- Page 191
 1 Q. Right.
- 2 So it looks like, from the form, there's
- 3 the subject tree, which you put down the
- 4 information on the subject tree.
- 5 A. Mm-hmm, if it exists.
- 6 Q. The one that's either missing or maybe it's a
- 7 tree that needs to be replaced.
- 8 A. Mm-hmm.
- 9 Q. Then the replacement tree is what you're going
- 10 to be obviously replacing it with.
- 11 A. Mm-hmm.
- 12 Q. And then the calculations, 9 is what you were
- talking about, right; the years to parity?
- 14 A. Mm-hmm.
- 15 Q. You need to say yes. Sorry.
- 16 A. Yes.
- 17 Q. And so in this -- let's apply this roughly to
- 18 the legacy oak.
- 19 So the legacy oak would be the subject
- 20 tree, right?
- 21 A. Yes.
- 22 Q. If we were using this?
- 23 A. Yes.
- 24 Q. So what would be the replacement tree? It'd
- be another oak, presumably?

	110 1107	Page 192
1	Α.	It's easiest if you go with a similar species.
2		It's not necessary, but it's easiest if you
3		do.
4	Q.	And so what let's say this tree was going
5		to be replaced. What would it be replaced
6		with; what size tree?
7		Is that up to the owner or is that
8		something that is recommended by the arborist?
9	A.	Again, depending upon the method used, you can
10		go to the largest reasonably available
11		transplantable tree.
12	Q.	Okay.
13	Α.	So you can get a red oak hauled out of
14		Maryland, all the trucking costs and
15		everything else that goes into it, and that is
16		going to be X number of dollars, or you can
17		grow a tree.
18	Q.	Okay. And then the years to parity, you have
19		to figure out whatever tree you select for
20		your replacement tree, you have to figure out
21		how many years that needs to grow to be the
22		same age or size
23	Α.	Correct.
24	Q.	as the tree you're replacing?
25	Α.	Correct.
1		

Page 193 1 Q. And is it age or size or a combination of 2 both? 3 No, it's going to be more of the -- it's not Α. the age. It would be more the size. 4 The size? 5 Q. To the size. 6 Α. 7 Q. Okay. 8 Α. So the reason I say that it's best to stick 9 close to your species is that if somebody were 10 to say, Well, we'll give you a poplar, which 11 can grow to 20-inch in, you know, eight years. 12 But it's like that's, you know -- so anyway, 13 that's splitting hairs. But generally, you go 14 type for type. Got it. 15 Ο. 16 So this technique could be used to figure 17 out the replacement cost of the oak tree at 18 issue in this case; is that fair to say? It could; it could. 19 Α. 20 Q. Okay. Turn to Exhibit 39. 21 MR. HARRINGTON: 39. 22 MR. BOPP: No, that's 40. 23 MR. HARRINGTON: 39. 2.4 BY MR. BOPP:

25

I'll ask you if you've ever seen this before.

Page 194 1 Α. I have not seen this photograph, no. Do you have any idea whose truck that is in 2 0. the picture? 3 I do not. I do not know whose truck that is, 4 Α. 5 no. I will represent to you that that is one of 6 0. 7 the defendant's trucks. 8 Do you know whether that is a so-called 9 tri-axle? It doesn't appear to be, but I can't see all 10 11 the -- the body is in the way. I can only see two of the axles. You can't see a third axle 12 13 there, but --14 0. I'm not even --Tri-axle, meaning three sets of wheels across 15 Α. 16 the back end. Okay. If this truck were to be driven near or 17 0. 18 around the legacy oak tree, I think it's fair to say that it would seriously compact the 19 20 soil and damage the root system of the tree; 21 is that fair? 22 MR. LIBERMAN: Object to form. You can 23 answer. 24 Yeah. Actually, that's something that I Α. 25 pointed out when I first looked at the tree;

Michael	K. Hughes on 04/25/2024
1	Page 195 was what's interesting is that, obviously, you
2	don't want any vehicle driving over the root
3	systems of your trees. It's kind of an out of
4	sight, out of mind. Roots are down there
5	somewhere so people think, Oh, my car is
6	certainly not hurting anything.
7	But cars with narrow wheels, a van
8	which I'm sure was just there momentarily
9	but narrow wheels quite often drive in deeper
10	than wide wheels since they're dual. The
11	weight of the vehicle may be such, but spread
12	over a platform of tires is dispersing weight.
13	So, for example, I was told I was told
14	by somebody like an excavator, I'll just
15	say, that a bulldozer a full-size bulldozer
16	causes less impact than a Bobcat over the root
17	system of a tree, and it was news to me. But
18	he said the pounds per square inch applied is
19	so uniformly spread out that it causes less
20	impact than our own like Bobcat equipment.
21	And so I can't answer that question
22	accurately. It's not my specialty. That can
23	be answered by somebody, I'm sure, to say that
24	versus a van or a pickup truck or other
25	vehicles, what is the pound per square inch

- Page 196

 applied underneath each wheel. That would be
- the real question, and I don't know what that
- 3 is with wheels.
- 4 BY MR. BOPP:
- 5 Q. Okay.
- 6 MR. HARRINGTON: I do.
- 7 MR. BOPP: Thank you.
- 8 BY MR. BOPP:
- 9 Q. Let's take a look at Exhibit 40, please. I'm
- 10 going to ask you to take a look at that.
- 11 A. Okay. Yes, I recognize that as the subject
- 12 tree.
- 13 Q. Okay. Would you say that appears to be the
- most recent picture that we've seen of the
- tree given what's happening with it?
- 16 A. It appears to be, yes. It appears to be.
- 17 Q. And what do you note of significance about
- this picture of the tree?
- 19 A. Well, it looks like more bark is sloughing
- off. So there's greater height over here.
- 21 Q. On the right side?
- 22 A. On the right side; on the roadside stem. And
- yet it is remarkable the amount of vigor that
- this tree is showing for everything it's gone
- 25 through with this wound wood rolling in,

Page 197 callus tissue. 1 2 0. And where do you see the wound wood rolling 3 in? It would be right in between the two stems as 4 Α. they almost come in contact, like a couple of 5 snakes or ropes coming down. So it is still 6 7 showing signs of vigor. But certainly, more bark has sloughed off, and the decay is moving 8 9 up -- up the stem. How about on the left-hand side? I'm just 10 11 wondering about the area where the bark is 12 sloughing off. All the way to the left, it 13 almost looks like sort of just bare wood under 14 there, if you see where I'm talking about. Yeah, I'm looking at that, and I'm trying to 15 Α. 16 see -- I can't make out what -- perhaps was a piece of bark pulled off right there just to 17 18 check on the tree? I'm not pointing fingers or anything, but sometimes people will just go 19 20 up and flip bark to see what's going on. And 21 it looks like a piece of bark was snapped off 22 there or maybe it just sloughed off. It looks 23 like maybe -- I don't know, but that is tough to make out if that's tissue rolling in or if 24 25 it's just suddenly opened up to air right

Page 198 1 there. 2 Yeah, I can't make it out in this 3 photograph. It's a little bit too far away -unless you have a close-up. 4 I don't, of that one. 5 0. 6 Do you remember the picture that you took 7 where you were pointing the pen at like a 8 whitish-yellowish area? 9 Yes; mm-hmm. Α. Was that the same side of the tree as we're 10 0. 11 looking at now? 12 Yeah, that would have been that area in Α. between the two stems. I believe it was right 13 14 there. 15 MR. LIBERMAN: You're referring to 16 Exhibit 22; this one? MR. BOPP: Yes, thank you. 17 It would have been right in this -- so I don't 18 Α. have my pen tip out, but it's that area right 19 there that I took a photograph of, I believe. 20 21 I want to say right in there. BY MR. BOPP: 22 So has that area changed colors then? 23 0. That was bright sunlight hitting that early in 2.4 Α. 25 the morning. Now the sun is -- this must be

1		Page 199 an afternoon shot here. But actually, in a
2		way, this shot is a better shot, even from a
3		distance because of the shade that's now
4		hitting it. It exemplifies those annual
5		attempts at rolling in because of the light/
6		dark. It also shows this a little bit better
7		down here, too, at the bottom of the picture
8		where we discussed is it a root; is it
9		response growth. Um, this piece down here.
10		But down low on the left side, also, there's
11		some response growth coming in right there.
12	Q.	When you say "right there," where are you
13		pointing at?
14	Α.	I was referring to that knee, so to speak, and
15		that little knee coming in right there.
16	Q.	Oh, I see.
17	Α.	You know, what's weird about it is that it
18		makes me wonder a little bit, given that, you
19		know, we're talking about we're talking
20		about two independent stems right here, and it
21		would be interesting to have seen, in the
22		past, what was in this spot; what was there.
23		Were there two small buttress roots, which
24		would make most sense because they're two
25		separate stems.

1		Page 200 So this is a really interesting area down
2		here because it's trying to see what may have
3		been in that location. Well, the other
4		pictures are varied. But let me just 32.
5		This is kind of typical. You have two
6		stems competing, and they tend to the
7		buttress roots tend to go, you're there; I'm
8		going to go here. So they kind of flare away
9		from each other. There's not really enough
10		room in this area here for it wouldn't be
11		one big buttress root. It may have been two
12		small ones kind of flaring away from each
13		other right in that spot.
14		Be cool to see an old photograph of the
15		tree and see what was in that spot. But it
16		was a long time ago when that whatever it
17		was looked like that.
18	Q.	Mm-hmm.
19		Okay. I have some more general questions
20		for you here, Mr. Hughes. Have you ever
21		lectured on or written about the issues that
22		we've talked about today?
23	Α.	Have I ever lectured on them? No. I have
24		gone and taught classes up at U of Maine just
25		to talk to the horticulture and Southern Maine

- 1 Community College, but I'm not -- I'm not a -2 I'm not a published book arborist.
 - 3 O. Or any articles? Have you written any
 - 4 articles?
- 5 A. I've written articles in -- for the -- for The
- 6 Forecaster, that type of thing, that were in
- 7 weekly while it was in business.
- 8 Q. That's about it for The Forecaster?
- 9 A. What's the other one that's here? The Notes--
- 10 the Yarmouth Notes, before COVID took them
- away.
- 12 Q. In the prior case that we talked about at the
- 13 start of the deposition, you had your
- 14 deposition taken -- that was in Colorado you
- 15 had your deposition taken?
- 16 A. Mm-hmm.
- 17 Q. I'm sorry. I can't remember.
- 18 Did you wind up saying you did testify at
- 19 trial?
- 20 A. Yes.
- 21 Q. I don't know that I asked you this.
- What year was that, approximately?
- 23 A. That would have been probably 2003.
- 24 Q. And was that a tree valuation case; is that
- 25 what your role was?

1	7	Page 202
1	Α.	My role my role in that was to, um I was
2		subcontracted by property valuators to provide
3		a value of the trees that would have to come
4		out. They were very, very large trees that
5		would have to come out to make way for an
6		expanded intersection. So it was to be added
7		to their property valuation for the whole
8		site. That was my role.
9	Q.	Was it akin to a condemnation proceeding?
10	Α.	It was they were not fighting the as I
11		remember, the property owner they were
12		directly at a very busy intersection. They
13		were not fighting the loss of the trees so
14		much as, um, trying to establish value for
15		their entire site and how that would diminish
16		their value, both in land you know, this is
17		Boulder, Colorado; very high dollar land
18		the loss of land, compensatory for that, and
19		then the loss of the trees for compensation
20		for that.
21	Q.	And do you know if the other side had a
22		competing expert?
23	Α.	Yes, they did.
24	Q.	And was there a decision that was issued after
25		the trial?

Page 203 Yes; mm-hmm. 1 Α. 2 Do you know how it came out on the tree 0. valuation issues? 3 It was -- the tree -- the property valuation 4 Α. really was a left field -- came out of left 5 field because the property wasn't -- it was a 6 7 residential property. Both had a large 8 residence on it, but what the site was could be assumed to be highest and best use, which 9 10 could be a hotel. So the value went from -- we were valuing 11 12 a house -- not me -- not the house, but the 13 So our valuation was here, and it came 14 in sky high as if it were, you know, Embassy Suites. And then, of course, you know, the 15 16 value of the trees shot through the roof. 17 So that was -- it was a surprise to the 18 property valuators, but it's something -- the 19 highest and best use can be done, so they got 20 it. As far as I know, it happened. 21 Yeah. And you were on the state's side? 0. 22 I was representing -- yes, Maine -- the Α. Colorado DOT; CDOT. 23 And their general goal was to try to get as 24 Q. 25 low a value -- low defensible value as they

MICHA	ei K. Huş	Dogo 204
1		Page 204 could; is that fair?
2	Α.	Yes, they they were shocked because I
3		you know, they assumed that trees these
4		trees were old and not worth, you know,
5		anything. And I came back with, you know, a
6		value that was quite a bit more than that, and
7		they only found out later that they're worth
8		even more than that. So it was a lesson all
9		the way around for everybody involved.
10	Q.	Yeah, it sounds like it.
11		Have any of your licenses or
12		certifications ever been suspended or revoked?
13	Α.	No.
14	Q.	What percentage of your work time is spent
15		being an expert witness?
16	Α.	An expert witness?
17	Q.	Right.
18	Α.	Well, expert witness would mean in court?
19	Q.	Yeah, involved in litigation like this.
20	Α.	Well, as far as in situations that could go to
21		court but get resolved, I would say at this
22		point, probably two to four percent.
23	Q.	So what's the other 96 to 98 percent of your
24		work time spent doing?
25	Α.	My other 90 or another probably 60 percent

1		Page 205 of mine is in plant health care; so in the			
2		treatments and management of insects and			
3		diseases.			
4	Q.	And then the balance?			
5	Α.	That would be in the general tree work and			
6		landscape as well. Landscape is probably			
7		another 20 percent. So general tree work is			
8		probably about 15 percent at this point in my			
9		life, for obvious reasons.			
10	Q.	By landscape, do you mean landscape design?			
11	Α.	Design and installation, yeah. Yes.			
12	Q.	Have you relied upon any written materials			
13		such as a treatise or other publication in			
14		support of your conclusions or opinions that			
15		you would consider to be authoritative on the			
16		subject matter about which you're testifying?			
17	Α.	Probably the information that I go to most			
18		often is authored by Alex Shigo.			
19	Q.	S-H-I-G-O?			
20	Α.	Yes.			
21	Q.	And do you know his credentials?			
22	Α.	He's no longer with us, but he was kind of			
23		termed, you know, the father of true			
24		arboriculture. He published his books from			
25		his research in the '80s and '90s and was			

1		Page 206 speaking, you know, all over the country. His
2		stuff his materials still hold up very
3		well.
4	Q.	Are there any titles that you can recall of
5		works that he's written?
6	Α.	Um, two books. One is called Touching Trees.
7		Another is the Arboriculture I think it's
8		basically called Arboriculture. But I can
9		pull them up or give you the references on
10		that.
11	Q.	Have you worked with Attorney Liberman before?
12	Α.	No, I have not.
13	Q.	And, again, not trying to get into any
14		specifics of the contents of communications
15		that you've had with Attorney Liberman, but
16		did you what did you do to prepare for your
17		deposition today?
18	Α.	The main thing I tried to do today was I
19		was kind of torn because as this kind of
20		dragged on the dating this thing I was
21		kind of torn because I had wanted to almost go
22		back out and do another visit to the site. I
23		don't spend a lot of time up in Edgecomb. But
24		I didn't want to do so without going with Jon,
25		and I didn't feel like that would be

	Page 207
1	appropriate.
2	But it would have so what I tried to
3	do to answer your question was just
4	mentally put myself back there and remember
5	every bit that I could about the tree and
6	from the 12 photographs that I had to get a
7	feel for my first impressions of the tree.
8	Because that quite often for me
9	anyway my first impressions are important
10	before I discuss things and before other
11	things kind of muddy the waters a little bit.
12	So I tried to recall that as best I
13	could. As you could see, I didn't have I
14	didn't take a bunch of notes on this case. I
15	wanted it it was more of a verbal meeting
16	that we had, and so I didn't have a report to
17	go off of.
18 Q.	Did you meet with Attorney Liberman to prepare
19	for this deposition?
20 A.	Yes, mm-hmm.
21 Q.	How many times?
22 A.	One time, at his office.
23 Q.	And how long was that?
24 A.	One and a half hour.
25 Q.	Was anyone else there or just the two of you?

1	Α.	Page 208 It was just he and I.
2		
	Q.	Did you review any documents during those
3		sessions?
4	Α.	No. We more or less talked talked and
5		discussed the deposition and discussed the
6		tree, discussed the case; but we did not go
7		into pulling out photographs and all of that.
8	Q.	Did you discuss potential questions you might
9		be asked during this deposition?
10		MR. LIBERMAN: I object because now we're
11		getting into the content of my communications
12		with him.
13		MR. BOPP: Fair enough. If we can take
14		just a two-minute break.
15		(A break was taken.)
16		MR. BOPP: I am done with my questions.
17		Thank you, Mr. Hughes.
18		THE DEPONENT: Okay.
19		MR. LIBERMAN: Thank you. I have no
20		questions. We can read and sign.
21		(The deponent will read and sign.)
22		(The deposition concluded at 4:15 p.m.)
23		* * * *
24		
25		

	Page 209
1	STATE OF MAINE
2	
3	I, Lynne M. Morrison, a Notary Public in
4	and for the State of Maine, do hereby certify that
5	pursuant to notice there came before me on April
6	25, 2024, the following-named person to wit:
7	MICHAEL R. HUGHES, who was duly sworn to testify
8	to the truth and nothing but the truth; that he
9	was thereupon carefully examined upon his oath and
10	his examination reduced to writing under my
11	supervision; that this deposition is a true record
12	of the testimony given by the witness.
13	I further certify that I am neither
14	attorney nor counsel for, nor related to, nor
15	employed by any of the parties to the action in
16	which this deposition is taken, and further, that
17	I am not a relative or employee of any attorney or
18	counsel employed by the parties hereto, or
19	financially interested in this action.
20	IN WITNESS WHEREOF, I have hereunto set my
21	hand this 14th day of May, 2024.
22	
23	Lynne M. Morrison
24	My Commission Expires
25	April 4, 2026

1	CHANGES AND SIGNATURE	Page 210
2	WITNESS NAME: Michael R. Hughes, 04/25/2024	
3	PAGE LINE CHANGE REASON	
4		
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20	I, Michael R. Hughes, have read the foregoing	
21	transcript and hereby affix my signature that same	is
22	true and correct, except as noted above.	
23		
24		
25	Michael R. Hughes Date	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: ..HughesM 39

lichael K. Hughes on 0)4/25/2024 		Index:HughesM
	110:5	126:10	HughesM 28
Exhibits	112:18	HughesM 18-A	4:18 143:5
	113:14	_	146:3,14
HughesM 1		4:8 127:10	•
3:8 14:14,	HughesM 7	HughesM 19	HughesM 29
21 15:22	3:17	4:9 129:23	4:19 144:3
17:5 23:4	113:9,12		149:5
38:14,15	HughesM 8	HughesM 20	HughesM 30
53:14 69:9	3:18	4:10	4:20
80:24	113:24	130:19,20	155:4,11
83:20	113.24	HughesM 21	155.4,11
91:22	HughesM 9	4:11	HughesM 31
	3:19	131:4,16	4:22 157:6
128:18	115:14,17	•	1 20
HughesM 1A	•	133:13	HughesM 32
3:9	HughesM 10	HughesM 22	4:23 161:9
	3:20	4:12 133:5	166:7
HughesM 2	117:25	198:16	169:22
91:25 92:1	HughesM 11		170:19,24
94:8,10,13	3:21 120:8	HughesM 23	HughesM 33
96:1,2	3.71 170.0	4:13	_
HughesM 2A	HughesM 12	136:7,19	4:24 167:8
	3:22	137:12	168:1
3:11	122:22	The select 24	170:18,19
HughesM 3		HughesM 24	HughesM 35
3:12	HughesM 13	4:14	5:3 171:23
99:17,20	3:23 125:4	137:11,19	3.3 1,1.23
100:21	HughesM 14	138:10,11,	HughesM 36
104:14,19	3:24	20	5:5 172:25
104.14,19	125:6,9	HughesM 25	173:2
HughesM 4	120.0,0	4:15	HughesM 37
3:13	HughesM 15		_
106:23,25	4:3 125:11	138:16,19	5:6
107:6	HughesM 16	139:20,21	177:18,25
	_	141:5	HughesM 37-A
HughesM 5	4:4 125:14	HughesM 26	5:7
3:15	HughesM 17	4:16 141:8	
108:6,11	4:5 125:17	1.10 111.0	HughesM 38
HughesM 6		HughesM 27	5:8 181:18
_	HughesM 18	4:17	HughesM 39
2 • 1 6	1 • 6		manichi 37
3:16 109:11,15	4:6	141:17	5:9 193:20

Michael R. Hughes on 0	4/25/2024		Index: 020
HughesM 40		15-year-old	1963 114:8
5:10 196:9	182:15	187:2	115:7
	100 53:9		
3:7 12:4,	188:7	125:14	115:7
11,14	10:00 24:15	160 130:3,4	1976 172:5
0	10:30 132:14	168 130:3	19th 52:11
o 42:15	11 120:8 132:13	17 124:2,5 125:17	2
0108 93:9	11:15 94:23	190:20	2 80:24
	95:4	18 53:18,19	
1	12 13:6,22	54:19	94:8,10,13
12.6.00	47:9	60:18,20,	96:2
1 13:6,22	100:4,9	23,24	174:18
14:14,17,	122:22	61:4,5,9	175:12,13,
18,21	142:3	105:8	14,15
15:22 17:5	173:23	117:23,24	178:18,21
23:4	174:7	125:21,24	189:5
38:14,15	207:6	126:10	2-A 98:15
53:14 69:9		173:24	99:4,10
80:24	12-item	174:7	
83:20	12:19	18-a 127:10	2-inch 182:2
91:22	12th 39:18		188:24,25
128:18	95:25	180 168:4	189:1,14,
174:18	13 124:1,5	169:7	22 190:16
175:12,21	125:4	19 20:5	2-year-old
176:21		23:9,13	187:4,7
178:18,21	14 125:6,9	35:1 48:6	188:21,22
181:2	14-foot	103:13	·
1-a 31:21	186:5,6	129:23	20 46:12
38:11,14,	15 53:18	131:24	53:20
16 63:12	54:19	190 130:3	60:20,24
99:11,12	60:17,23		61:5
10 25:6,7	61:4,9	1940 162:2	130:14,20
48:16	125:11	1960 172:5	135:24,25
86:10	135:24,25	175:2	187:2
90:14	205:8	176:1	189:5
J U - 1 1	ZUJ•0		190:6,19

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

Michael R. Hughes on 04/25/2024 Index: 20-inch..4 205:7 69:13,22 **24** 137:11, 157:6 31 70:19 19 138:10, **32** 65:19 20-inch 11,20 79:8,10, 161:9 189:16 19,23 190:5,16 **25** 35:1 166:7 80:5,21 193:11 138:16,19 167:13 134:9 139:21 169:22 20-year 148:2,5, 141:5 170:19,24 189:17 19,23 184:17 200:4 154:22 20-year-old 190:20 **33** 167:8 187:7 2023 23:9, **26** 141:8 168:1 188:19 13 48:6 170:19 **27** 81:8 49:4 81:8 2000 65:19 174:1 141:17 95:8 98:8 175:8 **35** 96:16 111:12,15, **28** 143:5 2003 201:23 171:8,23 25 129:11 144:25 2008 86:2,5 145:1,18 **35,000** 93:10 **2024** 13:3 93:15,16 146:3,14 95:25 **36** 84:9 151:22 **2009** 78:20 129:14 172:24,25 **29** 144:3 173:2 2010 151:4 **21** 95:10,20 145:6,10, 152:16 131:4,5,16 36-inch 14,15,20, 133:13 **2011** 62:9 182:3 24 146:9 136:15 65:2,5 **37** 177:18, 149:5 137:14 66:21 25 151:23 78:19 **22** 43:1 37-A 181:5, 97:9,17,21 47:11 59:2 9 3 134:15 65:18 **38** 91:23 80:18 **2014** 86:12 3 99:17,20 181:18 95:16,21, 100:21 **2019** 152:16 23 133:5 **39** 193:20, 104:14,19 **2021** 98:11 136:14 21,23 174:18 137:14 2022 38:20, 175:3,14 148:10,11 21,25 178:19,21 4 198:16 40:13 46:6 181:3

47:7,8

48:10

61:25

30

300

155:4,11

104:24

23 47:10

136:7,13,

19 137:12

4 106:23,25

107:6

127:18

129:14

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: 40..activities

Michael R. Hughes on 04/25/2024 Index: 40activities					
174:18	133:2,3	ability	account		
175:4,15	182:19,20	136:4	89:10		
40 154:16	74 52:12	152:22	185:5		
180:6	53:6 65:23	absent	accumulation		
193:22		166:13	46:13		
196:9	8				
401 K 6:19		absolutely 57:2 99:25	accuracy 56:21		
11:3	8 105:21	129:9			
	113:24	136:6	accurate		
4:15 208:22	80s 205:25		18:5		
4th 126:23	84 65:23	absorb 43:18	•		
	64 03·23	abuse 160:10	38:22		
5	9	accelerate	53:21 62:4 69:17		
		70:4	81:5,22		
5 42:16	9 12:20	accelerated	82:23 83:3		
108:6,11	13:2 95:4	69:14,24			
5th 126:23	115:14,17	70:10,13,	accurately		
	132:12	15	82:11 140:23		
6	191:12		195:22		
- 100·11 1F	90 170:15	accept 145:8			
6 109:11,15 110:5	204:25	acceptable	achieve		
112:18	90s 93:9	77:19	184:10		
113:14	205:25	accepted	acknowledging		
130:3		173:25	128:22		
182:18,20	94 65:23	access 30:24	action 11:4		
	96 204:23	31:8 62:24	24:4		
60 33:9 36:6	98 204:23	67:14	177:15		
107:25	9:00 94:23	75:15	activation		
108:1	9.00 94.23	97:1,2	53:25		
204:25	7	106:20			
	A	174:24	activities		
7	a.m. 95:4	accident	22:11,13, 14,15 34:8		
	Aah 171:2	184:7	62:7,15		
7 26:14		accommodate	63:5 79:5		
113:9,12	abandon	9:24	80:20		
118:24	57:19	, <u></u>	-		

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: activity..annual

Michael R. Hughes on 04/25/2024		Index: activityannual	
activity	36:17	193:1,4	190:8
37:6 39:2	adjustment	aggressive	altered
40:19,22	183:21	118:17,25	83:11
42:25	adiustments	agree 24:1,5	amazing
61:23 62:1	176:2	35:4	153:7
64:7 69:13,15,		66:10,16,	amend 81:25
22,23	<pre>administered 6:1</pre>	18 70:17	82:1,19
70:18		92:5	·
79:8,9,19,	advance	114:23	amended
25 98:9	146:19,20	115:3	83:10
135:4	advanced	126:13	95:16
149:6	68:7 69:2	155:16	American
153:5	advancing	agreed 6:5	90:3
actual 52:17	146:15	ahead 39:4	amount 33:13
80:18	advocate	47:16 82:3	153:9
135:14	153:3	130:17	196:23
added 134:7	aerial 47:19	165:16	an 93:24
170:20	affect	air 56:6,9,	analysis
178:7	128:14,20	10,12,13,	19:1 41:21
202:6	129:18	17,20	62:25
adding 168:8	180:24	57:4,25	analytical
169:8,9,	afford 179:5	58:20	36:2
11,12		37 4 4 7	analyze 58:7
additional	affording	60:5,6,13 119:18	_
11:24	32:25	197:25	analyzing 57:8
0 = -, -, -,	aforementioned		
12 82:20	54:14	akin 202:9	and/or 81:19
83:6	afternoon	Alex 205:18	154:1
additions	199:1	alive 47:23	angle 33:3
18:4	age 51:24	allowed 29:3	169:19
address 35:8	52:5,12,	41:20	angles 25:10
43:25	15,24 53:1	121:13	73:11,15,
127:12	65:15	alter 81:25	16 141:13
adequate	186:23 192:22	82:1,19	annual 134:5
			199:4

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: annually..article

Michael R. Hughes on 0	4/25/2024		Index: annuallyarticle
annually	157:12	23 25:4	97:25
54:25	164:15	36:6 53:19	98:11
answering	166:22,23	60:20	101:4
7:2,12	167:6	132:15	102:10
·	196:13,16	134:15	106:19,20
answers 9:7	Apple 133:1,	201:22	116:15
10:11	3	April 35:1	134:23
124:23		_	135:1
anymore	applied	arboriculture	142:20
157:7	195:18	85:3	143:20
188:1	196:1	205:24	147:5
apologize	apply 191:17	206:7,8	159:2,16,
45:16	appraisal	arborist	24 160:17
86:12	84:12,13,	84:24	163:6
141:12	15 93:20,	93:5,6,17	
_	24 94:3	192:8	170:15
apparent		201:2	180:9,25
135:7	appraisals	arborists	197:11
appeared	84:20,21	93:8,14	198:8,12,
29:21	approach	•	19,23
62:17,23	28:22	arborvitae	200:1,10
63:2,19	29:10	186:5,6	areas 51:22
118:23	41:21	area 25:22	66:24
appears	68:21	28:13	101:22
33:23	156:12	31:3,16	102:2,6
67:12	approached	33:6 34:15	134:21
68:19 69:3	29:11	41:3,17	168:8
76:18	149:11	42:2,11	177:17
103:12,21		43:17 58:3	aranad
109:23	approaches	59:23	argued 190:18
110:3	91:10	61:22	
113:13	approaching	62:12,13,	arrived
140:2,6	32:7 77:18	23 63:24	31:19
141:25	88:5	65:19,23,	arrow
142:4,5	190:14	25 66:2	120:16,17
144:13	approximately	73:1 76:22	arrows 178:7
145:11	24:14,16,	77:12	arrows 178:7
	, _ ~ ,	79:24,25	article

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: articles..back

Michael R. Hughes on 0	04/25/2024		Index: articlesback
155:17,21,	assignment	118:14	19,23
24 156:22	40:15	119:1,4,16	80:5,18,20
171:25	86:24	attempted	95:10,16,
173:12	108:23	51:17	19,21,23
178:8,10	109:1,3	21.1/	98:11
	123:6	attempting	148:2,4,
articles	124:11	29:20,24	10,11,18,
201:3,4,5	135:10	33:18	23 154:22
ash 115:25	0.10	51:4,15,19	
asks 56:3	assume 9:19	54:23	author 178:8
dSRB 30.3	32:16	84:13	authored
assess	76:9,23	111:2	205:18
36:10,17,	149:2	152:1	authoritative
20 47:19	168:25	153:8	205:15
52:1 68:22		-111	203.13
78:1	188:7	attempts	authorities
assessed	assumed	53:25 54:9	115:4
55:22	104:20	199:5	authors
33.22	203:9	attention	115:4
assessing	204:3	26:9 178:1	113.1
78:3		a.t.t. a.m. a.t.	automatically
188:13	assuming	attorney 13:9,19,20	176:22
assessment	32:6 37:22	14:1 15:9	avoid 156:17
28:11	76:7	16:8 21:21	170:6
	assumption		
65:15	32:11	26:20	aware 42:8
85:5,8,9,		41:24	126:22
15,18	assumptions	127:20	awful 170:9
86:19	80:14	206:11,15	axle 194:12
87:3,10	attached	207:18	
88:6,9,19	117:7	August	axles 194:12
89:8,19	128:4,6	38:20,21,	
_	a	24 40:13	В
90:24 91:6,18	attempt	43:1 46:6	
	36:22	47:7 48:10	back 16:12
92:16,17,	41:22	59:1 61:24	19:23
21,23	46:21	69:13,22	20:18
108:12	51:21	70:19	28:25
187:15	55:17 57:3	79:8,10,	29:24 30:4
	63:2	. 2 0 , 2 0 ,	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: backet

Index: backed..belonging 12,14,16 134:4 38:11 backing 44:19 80:10 167:6 161:24 45:13 162:13,24 196:19 backwards 46:21 63:8 197:8,11, 165:14 86:17 68:3,5 17,20,21 186:1 bad 49:5 73:12,21 206:8 base 37:23 74:17 86:9 **badly** 175:5 45:5 basing 59:6 87:24 62:18,23 62:1 63:8, balance 92:14,19 63:1 64:2 14,23 36:16,20 93:9,15 76:18 77:1 64:12,15 205:4 98:25 78:21 76:24 balanced 101:13 102:8 36:9 basis 69:13, 102:9 110:4 22 77:7, 113:15 bang 135:2 119:1 13,21 119:8 142:25 banged 149:17 132:6 147:10,11 149:20 134:10 Bath 133:18 177:9 bank 183:21 139:2 bathroom **based** 23:1 140:19,21 bare 197:13 67:22 55:15 151:2,22 bark 34:12, 69:10,19 bearings 161:12 15 46:4 70:17 167:12 169:18,22 51:12 71:4,7 175:1 beating 61:17 72:6 176:1,18 185:12 63:24 110:17 180:11,15 110:4,24, beautiful 111:9 183:14 187:16 25 134:22, 148:19 185:10,14 23 135:3,5 182:18 behalf 8:8 186:10 145:17,20, 190:10 21:3,8 194:16 23,24 204:5 **basic** 85:14 believed 146:2,4,16 206:22 86:18 98:3,6 158:19 207:4 108:12 **belive** 26:20 159:25 156:16 **backed** 73:19 160:3,6, belonged 76:7 80:4, basically 19,24 42:3 8 160:5,12 40:16 51:8 161:21 belonging 57:18 162:17,19 background 42:12 96:23 166:7,10, 135:11 106:18

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: benefit..bottle

Michael R. Hugnes on U	4/25/2024		index: benefitbottle
benefit	118:16	13 14:9,	126:1,4
25:20,23	134:11	16,19 15:6	127:5,8
56:24	164:18	16:20,21	130:13,16,
58:19,22	167:5	20:10,13	18,23,25
124:20,22	168:22,23	26:24 29:7	131:1,5,8,
benefits	177:16	30:14	11,14,15
187:23	187:9	31:20 32:9	136:10,12
	198:3	34:23	137:9,10
bet 80:6	199:6,18	38:15,17	139:11
big 43:13	204:6	40:7,9,10	145:3
88:11	207:5,11	49:7,8	148:13,16
121:12	bites 148:15	53:10,13	151:13,19,
125:22		56:5 66:9,	21 153:19
144:10	black 120:18	15 67:24	155:8,10,
149:10	161:7	68:4 69:5	15,25
150:4	blah 87:2	71:2 72:4,	156:4,9,
160:9	blowup	5 74:25	14,25
177:4	138:20	75:19 76:5	157:4,7,8
182:5	140:13	79:6,17	167:16,20,
187:25		82:3,8	22 170:13
188:2	board 93:6,	92:3,6,10,	171:4,6,9,
200:11	12,14,16	13 94:21,	13,17,21
bike 88:16	107:24	22 98:13,	172:23
	Board-	•	177:23,24
bill 14:2	certified	99:8,15,25	181:4,10,
binding	84:23		
162:21	Bobcat	103:17	183:5
bit 17:17,	195:16,20	107:4,5	193:22,24
18 34:16		•	196:4,7,8
55:4 61:11	body 150:12	•	198:17,22
63:17 64:5	194:11		208:13,16
65:17 69:4	bolt 45:6	23 118:2	bore 58:18
71:3 73:6	book 201:2	120:15,22,	boring 52:7,
78:10		24 121:1	16
92:11	books 205:24	122:8,21	
104:18	206:6	123:22	bottle
116:15,23	Bopp 6:14,	124:1,3	168:18
·	17 12:5,8,	125:23	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: bottom..car

Michael R. Hughes on 04	1/25/2024		Index: bottomcai
bottom 45:23	198:24	bunch 207:14	161:1
115:17	bring 11:9	bunt 108:4	174:25
120:17	34:20		185:1
121:4		business	called 24:9
157:17	bringing	7:21 201:7	85:25
190:25	182:7	busy 79:24,	99:10
199:7	broad 49:19,	25 202:12	186:1
Boulder 8:14	21	buttress	206:6,8
202:17	broadly	116:5,8,24	•
	49:21	117:4,5	calling
boxed 175:17	49.21	117:4,5	12:10
boy 58:21	broken 156:7	119:6,11	63:16 65:7
59:14	brought	164:19,20	callus 54:4
88:23	133:17	•	197:1
175:4		168:10,11,	
1	Brown 114:7		callusing
branches	Brunswick	170:17,21	51:21
54:10	174:4	199:23	cambial
115:2	184:13	200:7,11	135:1
140:15	buds 54:10		cambium
179:3	179:6	C	45:3,15
break 9:23		calculate	46:3
10:2	builder	189:16	
30:11,12	177:7	109.10	camera
31:22 49:6	builders	calculated	25:10,11
53:10,12	177:5	182:17	camp 88:16
67:21 68:6	h	calculations	canopy 36:1,
92:11	building	191:12	8 54:8
98:18,23	182:11		153:22,24
123:21	buildings	caliper	133.44
151:15,19,	89:13 90:9	111:6	capacity
20 157:1,3	bulldozer	188:24,25	11:2
208:14,15	59:12	call 15:22	capped
hmontri na	195:15	23:25	175:12
breaking 181:23		53:24	
	bumped	63:10 84:3	car 66:13
breaks 9:24	159:24	101:3	139:13
bright	160:5,13	153:21	195:5
			

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024

Index: care..clear

Michael R. Hugnes on 04	1/23/2024		index: careclear
care 44:2	caused 34:7	challenged	circumstances
49:24	45:11	185:9	52:4 55:23
50:11 57:1	47:14	challenging	Civil 11:4
205:1	148:9	22:19	
careful 7:11	158:11		clarification
	cautious	chance 53:15	50:25
carrying	19:4	100:21	clarifications
74:14	139:16	111:4	18:3,9
cars 88:17		113:25	clarified
89:12	CDOT 203:23	115:15	9:17,20
90:7,8	cell 20:23	118:3	18:19
195:7	center	151:6	82:14
case 8:4	117:21	152:6	
11:1 22:6	143:19	173:2	clarify
51:3 54:6	178:3	change 70:2	20:14 26:1
59:24		83:16	27:11 32:3
70:11 87:4	centered	129:21	37:14
101:6	140:8	changed	45:16 61:3
108:23	Central	198:23	81:17 82:5
117:22	126:11,15,	190.23	106:9
118:7	19 128:5	charcoaled	138:11
123:6		55:9	clarifying
149:9	certification 93:13,16	chase 119:19	
154:2,9,15	107:16	check 32:12	classes
158:13		100:2	200:24
169:6	certifications	126:21	
174:23	107:14,22	197:18	clean 7:13
175:13	204:12	⊥ Э / • Т О	clear 9:12
176:8,10	certified	chewing	27:4,17
193:18	93:5,6,7,	176:5	30:7 32:2
201:12,24	8,14,15	chiming	46:15
207:12,24	107:25	94:20	47:18
208:6			60:22
	cetera	choose	100:7
cases 187:14	186:23	190:19	103:25
188:4	CEU 107:25	circle 92:14	124:24
caught 107:1	CEUS 108:1	circulation	150:21
	- • •	186:18	186:21
		_00 _0	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: clearcut..composite

Michael R. Hugnes on 0	4/23/2024	,	index: ciearcutcomposite
clearcut	closing	142:11	19 130:2
185:21	125:19	148:17	compare
cleared	clump 123:25	commenting	145:4
65:14	_	142:9	_
120:4	CMP 38:1		compared
	62:20	commit 54:25	
clearer	67:15	common	185:2
17:17	96:16,18,	114:19	compensation
clearing	24 101:23	communications	185:24
58:3	126:7,22	15:8	202:19
76.0	130:1,8		
client 76:2	co-dominant	16:17,23	compensatory
clockwise	35:15	39:25 40:4	202:18
167:13		206:14	competing
close 47:19	collapsed	208:11	162:23,25
64:3 102:7	113:1,3	Community	200:6
111:3	145:24	201:1	202:22
	College		6 1 1 1
174:12	201:1	compact	Complaint
177:1		194:19	23:8
179:12	color 143:2	compacted	complete
180:21	Colorado	58:17	18:5,6
190:12	7:20,21	60:8,11,15	109:4,7
193:9	8:8,14	73:23 76:8	124:11
close-up	21:17	149:1	gownloked
113:13	201:14		completed 109:8
198:4	202:17	compaction 34:8 47:3	109.0
	203:23		completely
closely		51:4 57:6	188:14
159:12	coloration	59:19	completeness
closer	132:17	60:2,7	83:5
28:15,20	colors	71:17	
47:17	198:23	136:2	completing
68:25	a a m h d m a t d a	149:17,18,	108:21
75:12	combination	21 152:7	composed
116:18	23:1 34:4	165:7	186:21
	193:1	company	
closest	comfortable	48:24	composite
164:21	35:19 61:4	126:11,16,	100:13

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.
Michael R. Hughes on 04/25/2024

Index: composition..contributing

Michael R. Hughes on 04/25/2024		Index: compositioncontributing		
composition	concluded	22:12	154:22	
76:12	208:22	36:19	156:17	
compounding	conclusions	conducting	consulting	
181:24	21:24	58:20 92:7	93:17	
182:22	22:2,5	conduction	contact	
183:2	128:14,21	163:7	197:5	
184:20	129:2			
186:14	205:14	conducts	contained	
190:7,8	concrete	45:21,23	63:20	
compression	59:7	cones	content	
160:2	condemnation	106:11,17	16:22	
comprised	202:9	confident	208:11	
35:5,6		148:6	contents	
33.3,0	condition		17:4,6	
compromise	10:15	confirm	206:14	
164:24	22:24	32:12		
compromised	25:20	confirms	continue	
164:24	40:16,18	141:5	146:19	
166:2	48:10,20	confusing	continuing	
168:7	91:12	170:10	61:21	
176:22,24	110:17		107:12	
	111:14	connected	146:16	
concept	154:21	119:2,3	contribute	
183:7	184:3	177:13	41:19	
conceptually	185:6	connection	72:24	
189:9	conditions	11:1 21:25	160:6	
concern	19:19	consequences	gontribut of	
72:15	27:4,5	157:22	contributed 34:4	
149:10	53:3,8	aonaisti	70:14,19	
163:3,14	80:13,14	consisting 162:8	70:14,19	
164:3	122:3	102.0	79:10,20	
donderna	149:22	construction	80:21	
concerns 164:2	162:6	10:24 11:4		
104.7	173:11	40:25 42:3	contributes	
conclude	174:21	49:1 70:8	71:17	
22:23	178:23	72:16	contributing	
60:17,19	conduct	148:24	33:24	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: control..created

Michael R. Hugnes on 04	1/25/2024		index: controlcreated
164:17	23:14 29:1	18:3	County 11:6
control	32:16	correctly	couple 24:22
165:21	33:16	29:6	49:13
	41:6,14	151:25	170:23
conversation	43:10	131.23	197:5
17:14	49:16	correlate	197.5
20:15	56:11,16	164:10,11	court 8:15,
41:15	64:9,10	cost 58:22	16 9:3
61:15	67:2 72:4	181:23	10:5 11:6
conversations	77:8 80:23		204:18,21
13:18	81:14,17,	22 184:20,	cover 51:21
41:23	25 82:5	21,23	104:12,14,
	83:12,14	•	18
cool 200:14	85:1,23	189:1,13,	
coordinated	89:23 91:2		covered 9:6,
13:20	92:8 94:6,		11 44:4,11
copied	11 95:7,9	193:17	83:4 141:3
127:25	98:12		173:23
	104:5,8,11	costing	covering
copies 99:4	110:1,3	186:13	55:1
108:14		costs 182:2	154:15
181:15	129:6	190:22,24	covers 18:14
copy 12:19	133:12	192:14	111:6
98:14	136:18	counsel	172:6
99:5,9	138:14	18:15	
156:6	140:16	19:14	COVID 201:10
172:8,18	143:3	81:16,24	cracked
corner 50:14	157:24	82:4,17	113:13
85:21	161:17	123:7	cracks
132:19	167:14,23		112:16,21
163:2	192:23,25	count 134:10	
	corrected	counter-	crease
correct	18:18	167:12	159:16
10:8,24	82:14	counterclockwi	create
13:1,4	02.14	se 167:24	100:13
15:4,20	correction		160:1
19:11,12	39:20	country	created
20:21	corrections	91:19	93:12
		206:1) J • 1 4

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: credential..dates

Michael R. Hughes on	04/25/2024		Index: credentialdates
credential	43:3	114:24	151:3
85:25	cure 186:2	118:15,19	153:4
credentials	187:22	121:5	164:14
205:21		122:5	damages
203.21	current 53:2	136:3,5	78:13
critical	107:10	144:23	70.13
116:9	cursory 19:7	146:13	damaging
crown 34:3		147:1,5,	43:20
36:16,20	cut 186:22	10,13	116:23,25
43:13,18	cutover	148:9,18	damning
44:22	162:6	151:2,6,8	164:6
46:8,14	cuts 187:12	152:23,24,	181:2
87:21		25 153:25	
150:5	cutting	154:1	dangling
158:20	96:23	166:25	116:13
179:1		169:5	dark 160:15
	D	174:17,19	199:6
cruising		175:3,14	darker 143:2
123:20	daily 149:16	176:2	160:25
crush 77:2	damage	177:1,4	161:2,5
116:21	28:21,23	178:20	
135:2	29:12,19	194:20	date 14:3,6
179:13,14	31:3 32:22		18:23
crushed	33:21,25	damaged	19:18,20
45:24	34:1,6,12,	33:18	23:15,21
	14 35:2	36:13	39:1,5
51:3,5	43:2 47:4	38:19 43:9	43:1
118:19	49:23	45:24	48:14,15
119:7	50:3,20	49:17	56:21
121:4,18	51 : 18	50:1,19	57:12,22
134:24	52:23	51:22	81:7 82:13
162:18	53:19	57:11,20,	
176:8	54:15	22 58:1,4,	97:7,13
crushing	59:20,21	10,16	dated 13:2
147:12	60:2,20	59:4,11,	129:12
150:22	76:10 89:5	16,18	
179:10	90:5	61:24	dates 22:12
cumulative	111:1,5	119:20	56:22
Cumuracive	/-	121:19	
-			

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: dating..deponent

Michael R. Hughes on 04	1/25/2024		Index: datingdeponent
dating	25 166:25	declining	80:6
206:20	177:9	28:19	degree
day 16:4	197:8	49:14,15	69:15,23
23:24	dogovod	90:12	169:7
24:12	decayed 162:12	dogomnogo	109.7
26:15	102.12	decompose 146:6	degrees
	December		168:4
27:2,6,7,	19:20 20:4	deep 58:17	170:15
16,18,20	23:9,13	59:6	delivery
61:10	27:6,7	117:21	190:22
80:11	35:1 37:10	174:6,15	
90:16	48:6 49:3	deeper 195:9	demonstrate
103:1	52:11 81:8	_	70:15
104:6,13	95:8 98:8	deeply 37:11	department
106:12	103:13	defendant	65:7
140:24	111:12,15,	10:23	depend 21:20
142:3	25 129:11	21:3,9	_
days	131:24	42:13	depending
124:13,16	134:9	48:23	49:22
151:10	decent 97:9	98:10	121:23
dead 33:12		defendant's	180:14
88:10,12	decide 175:9	123:7	192:9
	decision	194:7	depends
deadwood	202:24		174:21
46:15	decline	defensible	178:22
47:14	49:11,16	203:25	deponent
deal 34:10	69:14,25	definitive	15:2 29:1,
121:12	70:4,10,19	22:6,7	4 34:18
death 114:24	•	42:14	75:13
115:1	79:11,20	44:17 55:2	94:18
185:12	80:21	59:1 77:24	113:15,20
	88:11	78:3,6,18,	145:2
decay 55:6,8	153:23,24	20,22	169:24
57:20	158:24	79:2,22	170:3
111:4 117:7	161:4	80:5,17	172:20
119:11,13	163:10	definitively	
146:10,22,	164:4,12	46:5 47:20	
24 147:16,		52:15 73:8	•
74 14/.10,			

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: deposed..directly

Michael R. Hugnes on 04	H/25/2U2 4		index: deposeddirectly
deposed 6:11	81:7	118:17	22:21,23
7:17 8:2	82:13,15	119:5	37:11
10:22	128:15,19,	143:22	47:13 50:4
deposition	21 129:1,	170:21	51:10
6:25 8:19	3,12,19,21	device	52:1,6
10:7 12:24	130:8	132:25	57:12,13
13:7 17:16	designed	133:1	70:3
92:7	76:25		112:14
104:10		diagram	144:14
124:9	detailed	178:14	digestion
201:13,14,	136:15	diameter	18:12
15 206:17	details 56:2	52:25	
207:19	153:16	diaries	diminish
208:5,9,22	determination		152:22
	55:20		202:15
depreciate	33.20	die 112:2,	dinged 36:13
185:4	determinations	13	45:25
depth 117:12	77:11	dieback	58:15
174:1	determine	28:16,17	160:5
depth-wise	36:3	33:12 34:3	direct
140:14	40:12,15	43:13	172:11
	52:15,24	44:22	
describe	54:18,24	46:8,11,	directed
34:13	56:21	14,20,23,	126:15
35:10	57:23,25	25 47:3,21	directing
116:2	58:3 59:10	150:4	56:13
169:20	69:12,21	153:9,12,	direction
189:25	80:19 87:1	20,21,22,	73:22
design	91:12	23 158:23,	74:22,24
205:10,11	135:18	24	75:1,15
designation	determining	dies 112:5	102:16
15:22	185:24		
16:2,6		difference	directions
17:1,21	devastating	84:11	32:14
18:4 22:1	175:22,23	differentiatio	68:9,24
42:18	176:6,15	n 91:16	75:21
72:14 77:6	179:11,16	difficult	170:7
	development	20:5	directly

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: dirt..earlier

Michael R. Hugnes on 04	4/25/2024		index: dirtearmer
121:3	distinction	draft 16:13	195:2
202:12	44:3 92:15	17:21,24	drop 74:16
dirt 67:3	distinguish	dragged	dropped
disadvantage	90:20	206:20	130:4
80:1	distribution	draw 30:9	171:14
,,	158:14	44:3	. 07.10
discovery 82:21	51 1	179:22	drove 97:18
02.71	diving	a	112:25
discuss 56:4	117:19,20	32:15 35:1	dual 195:10
70:9	docket 8:20	63:10	due 59:18
207:10	11:5	92:15	74.10
208:8	document	99:13	Dugas 74:10
discussed	12:18,19,	179:18	Dugas-style
18:16,17	20	180:18,19	74:7
21:12	documents	181:5	duly 6:10
110:21	11:9 13:6,		dump 59:13,
133:25	9,13,21	drawn	14 74:7
199:8	72:2	120:16,17	96:11
208:5,6	126:19	drew 63:9	113:1
discussing	208:2	66:4	148:24
50:14		drip	154:23
	dog 124:25	116:11,13	
discussion	dollar 84:14	•	dying 38:20
17:12 40:3	202:17	drivable	46:6
50:11 74:12	dollars	63:21	49:10,14
/ 4 • 1 2	186:13	drive 195:9	90:25
diseases	192:16	driven 25:17	
205:3		194:17	E
dispersing	<pre>dominant 35:5,6</pre>	dui	e-mail 39:9,
195:12	•	drivers 71:12	10,12
dispute 7:25	dot 161:7		123:12
_	203:23	driveway	127:12,15
distance	doubt 150:3	31:12,14	128:2,10
19:2,6	164:3	176:13	ŕ
138:2	dozen 85:13	driving	e-mails
180:17	162:5	25:22 73:7	11:12
199:3	102.5	76:14	earlier

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: ear

Index: early..everyone's 83:17 167:16 employees 154:22 108:18 41:5 195:20 edge 37:24 110:21 38:2,3 **empty** 42:6 equivalent 119:23 45:20 74:6,8,18 183:10 128:18 76:17 96:6 essential 133:25 106:13,14 end 17:16 19:25 20:1 143:18 112:16 72:25 75:6 146:5 establish 139:22 88:21 153:20 189:20 179:10 93:17 157:21 202:14 160:17 Edgecomb 177:14 established 89:3 174:8 165:18 **early** 93:9 180:3 206:23 194:16 115:6 estimate education engaged 198:24 138:8 48:22 107:12 earn 85:24 114:21 112:9 Europe **enter** 45:10 earth 32:12 effect 80:9 evaluate entering 68:8 69:2 88:20 86:25 88:2 116:21 117:21 117:13 evaluating 165:6,8 entire efficient 86:19 149:21 easement 60:14 155:20,24 evaluation 96:16,18 efficiently 180:25 84:15 97:1 69:1 202:15 86:25 91:9 **easier** 63:18 93:2,22 effort 60:5 environment 159:20 94:4 151:4 89:12 easiest event equal 182:1 elaborate 192:1,2 135:20,21 168:3 equally **east** 32:3 148:19 elm 89:16 106:7 33:2 176:20 176:10 117:17 64:20,22 events 40:13 179:8 176:6 68:13,20 44:9,11,16 73:11,20 Embassy equipment 135:14 203:14 22:12 easy 32:2, 148:19 43:22 11 33:4 emphasize everyone's 59:13 79:1 50:5,6 71:10 124:20 112:24 102:22

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: evidence..expert

Michael R. Hugnes on 04/2	23/2024		index: evidenceexpert
evidence	83:20	141:5,8,17	exists 67:25
62:6 63:13	91:22,25	143:5	191:5
119:8	92:1 94:8,	144:3	exit 41:4
158:5	10,13 96:1	146:3,14	
exact 68:7,	98:15	149:5	expand 8:13
16 106:13	99:4,10,	155:4,11	expanded
136:22	17,20	157:6	202:6
	100:21	161:9	expanding
EXAMINATION	104:14,19	166:7	8:2
6:13	106:23,25	167:8	
examining	107:6	168:1	expansion
135:8	108:6,11		150:2
examples	109:11,15		expected
112:8	110:5	24 171:23	81:20
	112:18	172:17,25	expensive
excavate	113:9,12,	173:2	186:7
165:16	14,24	·	
excavator	115:14,17		
195:14	117:25	181:18	25:24
Excel 189:25	118:23	193:20	92:24
	120:8	196:9	114:20
excuse 42:22	121:23	198:16	expert 8:6,8
44:10	122:22	exhibits	10:22
124:7	125:4,6,9,	12:9 91:24	13:24
exemplifies	11,14,17,	124:5	15:22
199:4	21,24,25	138:13	16:1,6,18
exhibit	126:10	: 10·10	17:1,2
12:4,11,14	127:10,13	exist 19:19	19:11
14:14,21	128:18	existed	21:17 22:1
15:22 17:5	129:23	148:18	35:11
23:4 31:21	130:19	existence	48:22
38:11,13,	131:4,16	165:14	72:14
14,15	133:5,13		112:22
53:14	136:7,19	existing	121:14
63:12	137:11,12,	165:25	128:15,17,
68:11 69:9	19 138:10,	168:9	19 202:22
80:24 82:1	11,16,19,	173:24	204:15,16,
	20 139:20	185:11	18

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: expertise..federal

expertise	84:17	56:12 59:4	falling
77:12	eye 46:22	67:4 72:20	110:24
explain	ele 10.77	76:9 78:5	161:21
116:23		79:7,9,12	166:11
162:14	F	80:19 84:5	familiar
189:12	fact 42:9	88:3	13:12
	43:23	89:18,21	25:15,18
expose 57:8	141:2	91:3 94:5	56:6 85:4,
58:8	142:2	96:5 104:2	14 108:9
exposing	158:10	105:1	
57:9		108:24	109:7
	factor 89:16	110:11	114:7
expound	factoring	116:17	144:17
81:17 82:6	182:8	119:24	181:20
expounded		132:22	fan 116:25
82:14	factors 23:1	136:2	117:2
extend 105:2	33:24 34:5	138:21	150:17
117:3	164:6	148:1	177:14,15
117.3	facts 81:19	152:3,8	farther
extending	fail 88:23	154:20	17:18
116:7	1a11 00·23	155:2,3	55:4,5
140:21	failed	158:2	106:8
extends	145:17,18	159:1	167:7
67:13	failing	164:13	
117:1	87:21	185:2	180:23
	90:25	187:8	father
extensive			205:23
127:2	fair 9:21	193:18	favor 60:25
173:12	10:18,19	194:18,21	
extent 16:16	11:25	204:1	feature
	13:16	208:13	140:7
external	15:11	fairly 55:11	features
90:21	20:16,20	147:25	144:21
extract	21:1 22:22	148:6	
52:17	32:19	152:17	February
84:18	35:10,13,	fall 146:6	12:20 13:2
overanolata	22 43:7	Tall 140.0	111:23
extrapolate	44:15,23,	fallen 51:13	federal 8:15
61:11		104:17	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

Michael R. Hughes on 04/25/2024 **Index: fee..form** 152:18,19 fee 83:20, 182:5 183:20 23 84:4 187:5 **follow** 81:11 fingers 189:4 **feed** 41:22 197:18 93:3 192:19,20 108:15 35:19 finish 7:11feel 193:16 10:1 30:14 124:10,15 **foot** 159:13 file 11:20 131:9 184:17 finishing 72:3 128:5 206:25 9:6 forced 188:4 136:25 207:7 firm 63:3 forecast **fill** 93:1 feeling 112:14 fissures final 69:8 119:6 160:24 Forecaster 81:15 **feet** 33:9 201:6,8 82:17,25 flare 200:8 36:7 83:19 97:4 foreground 105:21 flares 101:25 146:18 find 36:22 143:20 102:15 58:9 59:25 147:14 flaring 157:17 174:1 60:3 200:12 119:20 **forest** 28:14 fell 110:8, flatten 128:4 65:24 12 179:3 143:24,25 form 21:24 fibrous 184:1 flexible 70:21 59:22 186:5,22 184:24 74:21 78:8 106:6 findings 79:14 flip 197:20 116:6,12 77:25 81:23 117:6,16 fluid 22:17, 85:11,13, fine 9:9 18 50:13 **field** 115:5 15 86:19 10:3 14:18 176:18 116:2 87:5,6,7, 29:17 203:5,6 flush 167:4 8,10 89:9, 100:19 **fight** 29:24 19 90:24 focus 177:25 103:5 93:1,2 124:25 106:6 folder 96:25 116:11 fighting 11:14,21, 108:12,18, 122:14 123:14 22,25 96:2 21 109:5 124:13 152:5 folders 18:2 149:7 137:9 202:10,13 150:16 178:23,24 foliage figure 152:9 179:3,5,6, 28:18 156:19 181:22 46:22 54:2 9 180:1

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

Michael R. Hughes on 04/25/2024 **Index:** formed..Google 18:2 20:9 183:24,25 71:14 74:2 91:11 149:17 191:2 35:18 108:14 194:22 101:25 152:2 172:18 121:3,18 153:24 193:10 formed 166:25 163:9 206:9 162:13 176:10 171:16,19 giving 33:3 forming 179:9 200:19 88:4 89:24 203:24 full-size glad 100:12 205:5,7 formula 195:15 87:17 go-round generalities fun 131:12 185:3 85:19 29:22 187:20 fungi 163:3, 122:19 go-to 188:14 189:7 15,23 generalized goal 58:6 164:8,15, forward 38:8 124:24 25 166:14 21:14 203:24 generally 61:16 fusion 8:10 50:21 God 120:21 162:21 86:15 92:2 56:12 good 6:15, **found** 42:25 future 105:6,15, 16 27:4,6 97:16 172:22 20 116:14 33:13 186:8 150:8 fuzzy 100:10 94:21 204:7 155:16 134:11 98:21 166:12 foundation 109:13 175:25 149:8 G 115:11,23 177:2 155:19 116:22 gain 74:11 179:2 foundational 117:8 184:17 193:13 115:10 131:11 gained 151:16,17, geology framework 184:17 173:18 18 163:5 18:6,7,16 172:15,20 **GFG** 6:19 Gaining Fred 6:17 182:12 135:11 11:3 38:13 188:5 gathered give 30:10 107:3 goodness 65:7 53:15 123:20 88:22 54:21 146:17 general 55:10 **Google** 32:12 29:22 **fresh** 179:25 59:15 79:4 68:7,19 50:17 front 11:14 87:16 88:8 69:2 60:12

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: gorgeous..H-U-G-H-E-S

Michael R. Hughes on 04	1/25/2024	Index	: gorgeousH-U-G-H-E-S
gorgeous	172:9	37:4 38:9	132:22
187:16	187:25	77:1	133:24
gosh 135:6	greater	103:15	134:1,4,6
	56:21	105:5,16	144:18
Gotcha 7:16	180:22	110:10	169:10
gotta 151:17	196:20	116:21	199:9,11
grab 14:13		141:3	growths
113:15	greatest	142:1	163:1
144:25	175:14	146:3	
145:1	184:17	147:15	guard 107:1
	green 11:22	149:1	guess 52:2,
grading	Greg	159:14	10 53:5,6
165:19	127:16,21,	179:1,9	63:9 65:22
grain 122:13	23	grow 162:3	77:19
150:14		164:8	83:15,19
grand 100:8	grew 161:25	181:25	84:3 94:25
189:23	Griffeth	182:2	111:21,22
	26:21	183:4	116:20
grass 67:3	Griffin	184:21	123:23
gravel 62:1,	10:24 11:4	190:3,7	136:10
9 64:13	26:21,22,	192:17,21	163:19
65:2,5	23 39:2	193:11	173:7
66:20	40:19,22		189:11
95:11	44 44	growing 45:20	guesstimate
97:10	18 42:3	15 - 20	52:2
102:6	48:23 49:1	53:3,8 122:3,12	135:23,24
154:13	71:8 72:15	169:2	
graveled	74:3 96:12	183:1	guide 60:12
102:3,8	138:8	184:10	guys 14:10
_	139:3	190:16	25:4 30:18
gray 45:11			51:3 79:1
great 8:21	grind 190:23	growth 46:19	92:4 103:4
24:11	grinding	51:20	151:16
46:11	187:13	52:18,20	176:13
92:12	ground 7:10	53:17,23,	
115:13	9:1,4	24 54:7,	н
123:15	27:9,10,13	11,13	
151:8	, -, -	119:24	H-U-G-H-E-S

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: hairs..health

Michael R. Hugnes on U	14/25/2024		index: nairsneaith
6:23	handwriting	40:7	136:9,11
hairs 193:13	94:25	172:15	137:8
		hard 42:24	151:15
half 52:4	_	44:17 47:6	155:5,22
53:1	hanging	84:9	167:14,17,
132:13	11:22	103:20	21 170:1,4
183:14,19	88:12	130:2	171:2,5,8,
207:24	happen 47:4	153:14	11,14,18
half-assed	158:11	163:9	177:21
68:12	174:4	165:23	181:9
hammering	happened	175:24	182:25
185:7	22:16	177:22	193:21,23
	40:13 42:9		196:6
hand 12:3	47:25	harder	harvested
98:25	54:24	134:11	162:1
99:15,23	62:15	166:5	
108:6	64:9,23	hardy 43:5	hate 50:13
120:8	79:22		98:1
124:1	91:11	Harrington 6:18,20	153:11
127:9	98:11	11:2 14:15	hauled
131:16	133:20	29:2	192:13
133:15		30:11,16	hand 72:01
137:19	148:19	31:1,23	102:24
138:16	149:2	49:5 66:8,	
155:11	152:15	14 67:21	headaches
171:22	153:15,16	76:3 91:21	98:5
hand-drawn	176:20	92:4,8	heading
38:16	184:14	96:14	31:14
handed	203:20	99:12,17	63:18
17:21,24		103:9	102:18
125:24	happening	107:1	heal 29:20
	40:23	109:12	119:1
handing	110:16,23	120:13,21,	
14:20	149:4	23 122:7	
99:19	150:9	123:20,24	health 40:14
109:15	176:19	125:22	49:15 57:1
130:19	196:15	130:15,21	69:15,24
handle 121:9	happy 9:24	131:6,12	72:18
		101 0 / 12	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: health-wise..Hughes's

Michael R. Hugnes on 04	1/25/2024	1110	ex: neaith-wiseHugnes's
80:21	5 184:18	highly 159:3	147:23
86:24,25	196:20	185:9	horn 119:10
88:2 91:1,	helped 55:12	highway	
9,14 92:21	_	45:25	horticulture
93:1 94:5	helpful		200:25
155:1	61:16	history	hotel 203:10
174:20	123:16	22:10 23:2	hour 207:24
205:1	124:24	43:25 80:2	
health-wise	helping	161:2	hours 24:15,
151:11	157:7	hit 147:3	21,22,24
healthier	helps 106:9	hitting 45:8	house 203:12
166:18,22	138:24	175:24	houses
167:6	184:11,25	198:24	184:6,15
healthy 70:7	herbicide	199:4	huge 188:12
106:22	154:7	Hmm 26:7	hugging
110:19	herbicides	hold 16:15	169:3
119:9	165:21	39:22	
162:16	02.2	127:6	Hughes 6:10,
166:24	Hey 93:3 150:6	174:15	15,23
175:1	185:13	206:2	12:25
heard 24:8		holding	13:25 14:20
151:25	hidden	133:15	18:21
	134:21,23		20:14
heavier	hiding 135:4	hole 52:18	23:6,19
104:13	high 88:13	holes 37:3	53:16
heavily	89:1 147:2	55:18	61:21
58:17	149:25	hollow	69:10,19
141:3	164:5	112:10	80:25
185:4	202:17		81:16
heavy 103:23	203:14	home 172:8	82:5,18
112:24,25		homeowners	98:25
148:23	higher	156:16	99:18,19
165:2	117:12	honestly	157:5
178:18	146:18	122:20	200:20
heck 58:21	highest	170:6	208:17
	203:9,19		
height 36:3,		hooking	Hughes's

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

Michael R. Hughes on 04/25/2024 **Index:** hundreds..incorrect 99:9 157:23,25 124:12 82:20 83:11 158:4,6 135:8 hundreds 161:1 173:14 112:9 identify 178:14 163:8 12:15 hungry 91:24 207:9 165:24 14:23 92:9 174:19 131:20,21 impossible 195:16,20 hurt 57:21 138:7,25 36:10,17 91:13 161:11 45:12 70:6 impacted 40:14,19 111:19 hurting identifying 42:19,21 122:7 195:6 88:6 140:7 43:8,12 173:9 144:21 hypothetically 44:7,10, impression 148:22 illuminating 13,14,18, 28:5,7 165:2 33:8 21 45:2 impressions hypotheticals 69:15,23 image 121:14 207:7,9 70:7 91:15 136:16,22 104:21 137:13 inch 173:23 175:5 I 138:12 189:5 176:20 195:18,25 **images** 26:15 ice 80:16 impacting inches 105:9 imagine icon 123:12 89:20 117:23,24 59:23 idea 28:3 173:24 impacts 107:4 42:16 43:14 incident imminent 62:22 63:7 70:25 95:15 88:1 67:20 149:24 included 76:16 **impact** 70:24 152:13 77:6 101:11 71:14 imperviousness 152:21 116:22 72:17 77:3 165:13 162:19,20 175:11,20 87:1 89:11 194:2 104:25 important includes 128:14 19:17,22 84:4 ideal 53:3 25:14 129:18 183:25 including 136:4 28:10 23:2 37:6 identification 32:23 147:12 61:25 24:10 76:11 150:18,24 71:16 72:1 106:7 identified 151:12 incorrect 81:21 117:14 154:25

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: increased..interpretation

Michael R. Hugnes on U	14/25/2024	index:	increasedinterpretation
152:11	22:9,10	147:1	190:8
increased	39:13	injured	Institute
168:11,14	41:19,22	33:18 43:8	
100.11,14	46:10	33.10 43.0	90.4
increment	47:23	injuries	instruct
52:7	55:11	148:3	16:18
indentations	59:1,15	152:21	intend 19:13
103:15	62:8,10	injury 29:25	intended
	65:6,8,17	32:22	
independent	66:20	33:21	148:14
199:20	69:11,20	53:18	intent
Indiana	70:18,25	54:4,19	124:18
186:8	71:4,19	56:22	
			interest
indicating	72:7,8,9	60:17	181:24
43:15	74:11	63:24	182:9,16,
53:18	78:12,13,	112:4	18,21
60:14	15,23	132:21	183:2,9
126:24	79:3,22	135:16	184:22
	80:9,17	148:2	190:10
indication	82:21 83:7	152:1,6,14	
79:4	91:11		interested
168:21	96:4,17	input 16:14,	51:3
indications	97:16 98:1	25 17:2,3,	interesting
51:16	114:13,17	4	145:11
54:21	132:25	insects	169:14,17
indicator	136:16	205:2	171:1
43:13	137:13,16	inside 11:22	172:10
	138:12	168:25	195:1
57:21	156:13	100.72	199:21
individual	172:4,11	installation	200:1
139:7	191:4	62:1 63:14	
1	191:4	64.11	internal
		64:11	
individuals	205:17	-	90:22
individuals		64:11 189:19 205:11	90:22
	205:17	189:19 205:11	90:22 International
138:4	205:17 initial 28:11	189:19 205:11 installations	90:22
138:4 info 126:21 133:1	205:17 initial 28:11 initially	189:19 205:11	90:22 International 85:3 interpretation
138:4 info 126:21 133:1 information	205:17 initial 28:11	189:19 205:11 installations	90:22 International 85:3
138:4 info 126:21 133:1	205:17 initial 28:11 initially	189:19 205:11 installations 182:10	90:22 International 85:3 interpretation
138:4 info 126:21 133:1 information	205:17 initial 28:11 initially 95:19	189:19 205:11 installations 182:10 installed	90:22 International 85:3 interpretation

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: interruption..knowing

Michael R. Hughes on 04	4/25/2024		ex: interruptionknowing
interruption	Island	129:14	173:21
160:3	66:14,16,	Jeez 131:7	184:11
intersection	17,19		186:15
8:14	73:22	jerk 140:4	190:2
202:6,12	74:14,16	job 165:19	kids 88:25
	75:24	jobs 177:6	89:12
invasive	89:2,14		
48:3 52:16	90:11	Jon 11:17	killing
55:24	101:19,20	14:1 19:14	151:18
invest	102:19,24	25:6 26:20	kind 30:17
183:11	109:25	38:6 39:8	31:17 55:9
invested	122:11	41:9,24	59:15
182:24	157:21	42:5 77:9	61:12
	issue 8:1	131:9	77:17 80:1
involved	15:19	138:9	87:16
58:22	101:5	139:10	91:18
89:19	118:7	206:24	112:10
90:6,7,9	132:1	Jonathan	120:4
164:7	137:3	127:24	133:20
204:9,19	177:1	jotted 96:14	140:13
involves	193:18	Jourea 90.14	160:1
52:18		judgment	161:18
56:13	issued 14:2	36:4 59:24	165:20
involving	202:24	112:20	167:1
8:1	issues 8:10	185:1	169:3
	166:15	190:21	188:10,20
Iowa 142:10	200:21	jumping	195:3
iphone 26:14	203:3	88:13	200:5,8,12
133:2,3	item 190:25		205:22
		K	206:19,21
ISA 84:24 85:2,4,11,	items 11:24		207:11
, , ,	123:5	key 46:7	knee
14,24		49:12	199:14,15
86:18	J	50:23	·
89:23	_	51:1,2	knew 48:24
92:17	January	73:4 85:13	knowing
93:2,3,7	126:23	87:20	48:18
108:4,12	127:18	91:15	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: knowledge..Liberman

Whenaci K. Hughes on o-	Michael R. Hugnes on 04/25/2024 Index: KnowledgeLiberma			
knowledge	116:24	leave 55:2	173:17	
35:25 37:1	143:12	77:1	176:8	
42:14	169:5	165:22,23	182:3	
48:14 49:2	183:4	leaves 26:2	191:18,19	
82:16	202:4	48:12,13	194:18	
96:21	203:7	104:16	lesser 35:5,	
114:20	larger 28:14		7 164:2	
115:10	106:5			
Kozlowski	116:4	lectured	lesson 204:8	
114:8		200:21,23	letting	
	largest	led 60:16,	55:13	
	192:10	19	level 49:23	
	late 171:3	ledge 174:9		
label 31:20	lateral		Liberman	
labeled 66:5	143:16	left 109:22		
130:19	173:6	110:23	14:1 15:9	
157:6		146:21	16:8,15	
	launching	197:12	19:15	
lack 59:22	39:24	199:10	26:20,22	
laid 63:21	lawn 176:11	203:5	30:9 34:20	
land 18:22	lawsuit	left-hand	38:13	
19:8,9	15:19	132:19	39:8,22	
23:20		139:20	40:8 41:9, 24 56:3	
24:13	layer 45:19	163:2	68:2 70:21	
162:1	laying	167:3	72:1 74:20	
202:16,17,	141:25	197:10	75:11 77:9	
18	layout 67:10	legacy 23:25	78:8 79:14	
		24:5,13	81:23 82:7	
landscape	leading	28:9 34:9	94:19	
184:3,21	80:18	45:19	98:16,20	
205:6,10	136:3	101:5	99:22	
language	leads	120:11	100:1	
77:14,15	140:18,19	141:24	106:24	
89:23	leaf 103:23	145:7,9	108:13	
150:12	104:12,14,	157:15	113:10,18,	
large 88:20	18	161:13	22 118:1	
111:6	learn 171:19	167:10	126:3	
	rearm 1/1.19		-	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: licenses..loss

Michael R. Hughes on 04	4/25/2024		Index: licensesloss
127:21,25	lightning	listing	long 24:17
130:24	34:5 43:16	44:12	46:24
131:10	45:6	literally	52:11
138:9	134:25	122:12	54:21
139:9	likelihood	122.12	112:6
145:1	87:20	litigation	122:15
148:7	07.20	204:19	155:5,6
149:7	likey-likey	live 70:14	174:24
152:9	137:8	167:1,5	186:16
155:13,18,	limb 141:25	·	200:16
23 156:1,6	7. 7 00.11	living 47:22	207:23
157:2	limbs 88:11	loaded 41:2	longer 158:2
172:18	179:5	59:14	205:22
179:21	limit 10:10	74:13	203.22
181:11,16	50:7	75:22	looked 15:18
194:22	limitations	located	38:4 47:12
198:15	80:12	31:5,8	48:5 49:3
206:11,15		74:15	97:8
207:18	limited	75:25	101:13
208:10,19	22:9,10	105:8	142:8
·	25:10	130:11	151:10
licenses	61:25	163:4,10	159:22
204:11	limiting	164:21	194:25
life 154:18	80:13,14		200:17
205:9		location	lose 179:5
lifetime	Lincoln 11:6	18:24	
65:20,22	lines 37:25	200:3	loses 45:25
	62:22	logged	losing 150:6
lift 47:19	67:15 83:7	65:14,19,	
lifted	92:18,20	24 66:1	163:6
105:15	96:19,24	78:25	183:3
1:abt 22:24	101:23		legg //2·17
light 32:24	159:6	logging	
	160:21,22		45:3,15
151:17	161:2,5	62:11,12,	
199:5	list 13:5	15 64:7,8	
lighting		97:22,23,	
142:3		24 98:3,4,	
	85:20	6	170:22

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

Michael R. Hughes on 04/25/2024 **Index: lost..managing** 173:9,25 169:13 202:13,18, lower 19 132:11,18 174:2 170:22 200:24,25 143:19 175:6 118:18 lost 168:17 203:22 176:2 153:13 178:4 175:14 lunch 92:11 maintain 179:23 176:7 97:2 180:2,7 177:16 107:13 M 181:5 180:12 maintained 183:21 **M-A-I-N** 66:5 184:6 22:15 38:1 197:16,24 185:13 made 18:23 96:24 198:2 186:5 19:6 42:7 199:24 maintenance 187:6 83:16 202:5 22:13 95:20 lot 29:25 50:12 makes 22:21, 99:3,9 34:11 37:5 67:15 22 37:10 101:22 42:25 182:10 68:9 102:17 55:10 184:23 153:13 104:21 58:21 190:21 176:25 112:21 79:25 190:15 major 58:19 120:23 84:10 199:18 120:1 124:10 115:8 176:7 151:5 120:2 making 35:19 179:14 160:8 156:13 70:1 98:14 172:13 make 9:1 131:12 main 30:18, 174:9,15 179:24 14:18 19 66:5 185:1 206:23 22:19 80:3 26:13 105:12,13 loud 9:12 malleable 31:24 165:12 38:10 loved 187:17 33:11 176:11 188:12 man 67:22 35:12 206:18 177:22 47:18 51:9 low 89:6 Maine 50:10 90:7 119:3 63:17,21 manage 14:12 77:2 144:19 68:8,23 49:17 117:15,22 147:1,11 77:11,12 96:19 122:10 153:11 105:14 management 126:11,15, 160:7 112:20 205:2 19 128:5 199:10 121:12 154:11 managing 203:25 139:17 162:8 135:1

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: manila..method

Michael R. Hughes on 04	4/25/2024		Index: manilamethod
manila 11:21	materials	147:4,22	165:15
map 38:16	40:25	150:18	mentioned
_	63:20	meant 137:17	
maple 190:3	74:17	mcaire ±57-±7	41:10
Maps 68:19	128:5,9,13	measure	44:22
123:15	205:12	90:24	51:12
 March 17:16	206:2	measurements	52:14 53:1
39:19	matrix 87:17	35:23	54:7 57:19
95:25		measuring	60:16
111:24	matter 6:18	52:25	68:18
	8:6,21 13:25		117:17
mark 55:2		medications	143:18
marked 12:4	20:17	10:16	146:5
14:21	21:2,7,16, 18,25 23:5	medium	157:21
99:20	50:17	188:10	Merry 66:14,
127:9	81:18	meet 207:18	16,17,19
155:11	86:20		73:21
171:22	103:23	meeting 15:3,5	74:14,15
marks	184:18	16:5,10,25	75:23
102:12,13,	205:16	17:13,20,	89:2,14
17,20		24 22:3	90:11
103:2,12	mature	67:18	101:19,20
104:19,21	186:21,22	94:15	102:19,24
105:3	Mcgee 62:11	154:10	109:25
Maryland	64:8	207:15	154:10
50:9	97:22,23		157:20
192:14	98:3,6	memory 30:17	Merrymeeting
_	meaning	35:14	180:5
mashing	28:17	men's 53:11	100.3
162:14	35:17	mental 10:15	message
mass 164:22	42:21		155:16
Master 84:24	102:14,18	mentally	met 15:10
	145:14,20	207:4	71:7,10
material 37:23	194:15	mention	meter 60:10
76:12,24	means 43:8	46:19	
81:2,9	65:4 72:8	65:12	method 70:24
161:18	117:6	136:14	181:25
101.10	-		185:3

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: methods..movement

Michael R. Hughes on 04	1/25/2024	Ir	ndex: methodsmovement
186:14,15	34:25	157:13	12 183:14
188:14	misspeaking	158:3	morning
192:9	35:21	159:7	6:15,16
	33.71	167:25	•
methods 56:7	mistake	170:14	24:15,18,
190:13	95:20	178:16	21 32:24
Michael	120:23	186:24	90:14,15
6:10,23	mistakenly	189:15	132:12,13,
12:25	185:20	191:5,8,	15 198:25
middle 89:3	187:12	11,14	Moultrie
91:19	107.12	198:9	141:21
	mistook	200:18	
118:8	152:11	200:16	mountains 122:17
139:24	mm-hmm 7:4	201:10	122.1/
141:24	8:7,9 9:13		mouth 157:24
161:7	11:15,23	207:20	move 59:8
Mike 128:4	15:12 24:3	Mobile	76:6
172:19	41:12 81:4	141:21	91:21,25
million	83:22,24	model 26:13	92:2,10
186:13	94:12		113:9
	100:22	moment 39:16	115:13
mind 90:19	100:22	95:3	116:5
94:19	107:7,9,11	103:10	124:19
179:24		169:18	
181:5	109:6,10	momentarily	131:4
188:16	112:19	195:8	133:5
189:11	115:21		137:11
195:4	118:5	momentum	141:17
mine 43:15	127:17	123:21	147:24
120:20	128:8	money 182:23	151:9
205:1	129:4,7,13	183:3,6,11	156:24
	130:10	186:17	165:5
minute 20:11	132:23		172:24
missed	136:9	month 80:10,	175:7,9
123:12	138:23	11	177:9
	141:6	monthly	moved 29:13
missing	145:5	149:16	90:2 177:6
191:6	149:3	months	
misspeak	152:4	47:10,11,	movement
_		7, · TO , TT ,	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: moves..oak

Michael R. Hughes on 04	1/25/2024		Index: movesoal
38:8	nearby 40:25	north 29:12	13:10,14,
168:22	needed 62:21	31:2,23	17,20
moves 57:20	154:18	32:3,7	133:20
147:25		33:1	Notwithstandin
	negative	37:21,22	g 50:17
moving 21:14	43:14	63:16	_
43:23	154:25	68:13,15	number 8:20
77:23	negatively	75:23	11:5 34:8
86:15	40:14	170:2,5	39:25
125:6	42:19,21	north/south	42:15,23
147:6,7,16	43:7,12	31:25	44:12
150:18	44:7,10,21		70:24
161:2,6	45:1 136:4	northbound	71:15
165:9	negatives	102:19,24	84:16,19
167:11,12,	185:5	northerly	90:1 93:9
24 197:8	103.3	170:16	94:16,20
mud 28:1	neighborhood	northwest	112:7
muddy 27:21	93:11	75:2 170:9	130:2,9
76:4	nervous		135:4
207:11	68:10	Notary 6:11	165:15
		note 97:4	192:16
multi 130:14	newer 89:9	126:24	numbered
multi-stem	news 195:17	160:9	12:9
162:9	nice 7:13	168:1	numbering
	27:6	196:17	12:6
multipage 125:25	184:24	makad 20·11	
123.25		noted 28:11,	numbers
muscle 168:8	nicking		12:11
169:8	176:5	notes 46:18	13:22
	nodding 9:13	94:14	156:8
N	nonetheless	95:2,5	numerous
	31:15	99:1,10	109:8
narrow 40:2,		201:10	nutrients
5 65:16	noon 142:3	207:14	45:22 46:2
195:7,9	normal 63:4	Notes	15-22 10-2
nature	93:5	201:9	
121:21	160:24		<u> </u>
		notice 12:24	oak 23:25

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: oaks..opinion

Michael R. Hughes on 04	4/25/2024		Index: oaksopinion
24:5,13	oath 6:1	53:17	169:5
30:22 34:9	7:2 10:6	obvious 45:5	174:17
35:5,6,7	object	116:22	occurring
45:19 50:5	16:16,18	153:11	47:5
52:3,5	70:21	164:18	149:15
53:1 90:12	74:20 78:8	169:10	152:14
101:5	79:14	205:9	occurs
104:22	148:7	occasional	175:25
105:7	149:7	90:8	
115:24,25	152:9		offer 56:23
117:3	155:18	occasionally	offers
118:6,11	194:22	139:13	184:24
120:11	208:10	occasions	office
131:25	objection	109:8	15:14,15
137:5	81:23	occupancy	25 : 5
139:25	98:13,18,	87:12,22	207:22
140:2,5	20	88:20	older 90:1
141:24	objectives	90:17	172:10,11
144:6	184:11	occur 55:7,	· ·
145:7,9		11 112:6	one-sided
147:20,23	observations	121:16,24	114:25
157:15	18:23	122:5	ongoing 47:4
161:13	19:2,6,8 31:7,17	149:19	49:24
167:11	33:11		Ooh 153:13
173:7,17		occurred 39:2 43:3	
174:11		46:12,19	-
176:9	observe	47:12,19	147:19,21, 24
182:3	23:24	21 63:6	2 4
190:4	24:12	67:20	opened
191:18,19,	28:21	78:14 79:5	197:25
25 192:13	29:12,18	87:2	operating
193:17	36:1,8	95:15,22	96:9,10
194:18	37:3 54:12	97:8 111:1	operations
oaks 38:3,4	observed	135:12	97:24
50:6,10	18:22 20:4	147:11,13,	
122:18	23:7,20	16 149:14	opinion
150:10	29:15		153:18

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: opinions..pathway

Michael R. Hugnes on V	1/25/2024		index: opinionspatnway
opinions	owed 185:24	69:9 81:15	161:22
21:25	owner 96:15	narentheses	168:17
81:1,12,19	185:25	84:24	171:9
82:19	192:7	114:6	178:1
83:11	202:11		179:24
128:15,21	202.11	parity 182:8	
129:2	owners	184:23	parties 6:6
205:14	185:16,20	189:18	party 7:25
		191:13	pass 75:23
opportunity	P	192:18	88:17
32:25 33:3		park 79:1	
155:20	p.m. 208:22		
opposite	packed 74:19	parked 27:24	
122:5		31:18	179:12
161:12,14	pages 14:14	32:17	passing
168:5	107:2	33:15	64:20
order 62:18	108:6	66:13 75:3	. 7.00
	109:5	138:1,3	
132:5	127:7	parking	25:22
169:12	130:14,21	176:14	43:16
171:12,15	131:17		63:20
173:6		part 14:17,	
other	136:8	18 31:13	
99:16	137:14,20	33:6 40:11	
outer 163:4	155:6,7	44:19	135:13
176:2	171:6	47:7,13	
	paid 14:5	50:23 54:2	
		72:3 82:2	151:9
outfit 98:4		105:13	169:16
outline	185:15	106:21	199:22
106:12	panel 28:4	109:1,2	path 178:21
		118:14	_
overboard	paper 114:22	124:16	pathology
71:11	173:14	134:1	50:15
overcome	179:25	135:9	paths 174:24
152:6	paperwork	148:8,11	175:2
ottorgt amp	16:4	149:23	178:18
overstamp 114:3	paragraph	153:12,14	no+h
114.2	17:7 23:11	160:10	pathway
	11.1 77.1T		

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: pathways..photograph

45:25 pee 151:16 204:22,23, pervious 178:19 peel 15:16 25 205:7,8 176:7 pathways 71:3 percentage phases 112	
beer 12.10	
pathways 71:3 percentage phases 112	
	:7
178:2 peeling 111:6 phone 17:1	4
patient 166:8 180:12,16, 20:23	
$\begin{bmatrix} 1 & 0.2 & 0.1 & 0.2 & 0.1 $	
pen 133:15, 204:14 26:11 12	
16 04:16	•
177.16 20 103.2	,
pause 100·13 penalty 10:8	
pave 43:23 perfect 32:1	
154:5 pending 10:1 151:1 131:24 133:3,4	
perform 141:10	
pens 133:18 56:10,17	^
5 66:21 people 25:22 93:20 phones 26:	9
67:1 95:12 26:9,18 performed photo 133:	8,
97:8,10,21 84:17 48:2,25 9,10	
102:2 88:15 84:8,19 137:21,2	3,
154:3,12, 89:7,20 85:7 97:24 24 157:11	1,
14 158:10 90:6,8,13 16,18	
138:25 performing	
176:12 139:14 92:21 photograph 48:14,15	
162:15 period 153:1 19 102:1	
pavement 177:2,3 183:12 103:13	
183:17 . 10.0 106:16	
184:25	
paving 59:13 188:11 permeable 115:23	
62:2 64:13 190:15 154:2,13,	
157:22 195:5 14 158:2 131:23	
165:21 197:19 person 134:12	
paying 26:8 percent 159:23 136:25	
93:13	
pedestrian 154:16 (0:00 140:8 9	
180:6	
87:15 persons 89:6 111:13 142:13	
pedestrians 183:15,19 perspective 144:20	
89:12 188:7 103:14 159:13	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: photographs..point

Michael R. Hughes on 0	4/25/2024	I	index: photographspoint
161:22	picture	194:3	6:18
163:20	48:11	196:14,18	Plaintiff's
168:18	63:9,10	198:6	23:8
170:18	100:23	199:7	
194:1	101:1,2,8,	pictured	plans 184:21
198:3,20	17 102:5,	-	plant 57:1
200:14	12 104:3,	129:25	205:1
	13 109:16,	pictures	
photographs	18,20,22	24:25	plate 30:1
20:7	110:17	25:3,8,9	105:13,15
27:11,13	111:10,11	26:5,8,10	106:4
33:4,7	115:17	48:8 67:11	115:20,22
34:17,19,	117:1	117:20	116:14
22 35:18	118:8	200:4	platform
37:13 64:4	121:4	20.10	195:12
100:3	131:25	piece 30:10	
103:3,4,6		118:22	plating
106:10,12	132:2,3,4,	134:13,16	160:4
111:21	9 133:1,23		play 93:4
136:23,25	134:2	179:25	plow 113:1
141:12	137:2	197:17,21	brom TT2.T
172:14	138:5	199:9	plumbing
207:6	139:25	pin 72:6,8	114:25
208:7	140:23	pines 122:17	point 9:23
phrase 43:7	141:4,9,23	pines 122.17	11:16 14:7
	143:7,8,9,	pinpoint	17:19 20:2
77:7 79:7	10,14,17	70:16	21:15
phrasing	144:4,22	pit 63:1	25:14 26:1
90:21	145:6,13,	_	28:18
physical	15,18	place 60:11	29:14,18
10:15	146:9	84:14	
	149:5	134:24	31:15
physiology	157:14,18	153:14	32:22,23
50:15	158:25	176:14	33:1,5
115:6	166:13	places 90:4	36:15,18
pick 151:23	167:10	_	39:15
178:25	168:1,16	placing	45:10,12
	179:8	185:8	50:24 65:3
pickup	180:7	plaintiff	91:6 92:24
195:24			

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: 1

IMOTHY L. HARRIN (ichael R. Hughes on 04			Index: pointedpret
97:23	198:7	18:11	21:17,22
102:11	199:13	34:5,7	206:16
103:22	points 62:24	36:13	207:18
111:1	174:18,19	40:18	prepared
113:6	·	43:20	19:10
119:18	poke 55:18	65:14	21:2,8
122:20	pole 130:1,	104:23	165:20
146:17	11 140:18	154:3	103.70
150:1,8		165:20	presence
151:5	poor 91:1	169:4,14	62:17
152:20,25	poplar	179:13,16	present
153:6	193:10	180:17	163:15,17
161:4	popular		·
162:9	103:19	pound 195:25	presented
163:10		pounds	97:15
164:5	portal 24:20	195:18	Preserving
166:11	portion	power 37:25	156:17
170:7	158:11	62:22	
172:12	165:10	126:11,15,	pressure-wise
173:21		19 128:6	166:4
175:9	possession	140:12,17	pressured
176:21,24	11:13	140.12,17	131:9
177:12	127:3	pre 152:24	pressuring
178:17	possibility	pre-existing	131:6,8
184:19	87:19	150:3	•
185:10	possibly		pressurized
	57:5 162:1	predated	56:13
187:11		148:4	pretty 31:16
204:22	post 96:3	predisposed	43:5 45:19
205:8	potential	152:20	55:8,24
pointed 13:2	58:25	prefer 49:13	F0.10 F0.0
38:6 76:15	88:7,14	69:18	65:24 97:9
194:25	135:11	09.10	119:9
pointing	151:11	preparation	139:5
133:22,24	163:18,19	13:6	140:23
134:6	179:13	prepare	141:3
168:15	208:8	19:13	150:16
	200.0	20:17	173:25
197:18	potentially		

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: previous..purposes

Michael R. Hughes on 0	4/25/2024		Index: previouspurposes
174:12	problems	170:21	185:18
183:8	168:24	property	providing
previous	proceeding	103:2	10:11
31:4 89:25	202:9	185:16	40:24
184:3	processes	202:2,7,11	78:11
previously	156:18	203:4,6,7,	proviso 9:25
94:9	produce 51:9	18	Public 6:11
primarily	_	proposal	
175:13	produced	84:5,7,22	publication
	13:9,13	85:22	205:13
primary	126:20	protect	published
175:3	product	-	201:2
prior 23:2	142:12	151:5	205:24
25:16		prove 62:25	
47:12	professional	provide 9:11	pull 64:4
	59:24	21:8 40:17	206:9
48:20,22	92:23		pull-in
60:6	190:20	62:19 81:1	103:19
71:23,24,	profiles	94:2,4	
25 72:10,	173:19	106:2,24	<pre>pulled 73:21</pre>
13 84:7	1/3.19	124:23	197:17
86:11	program	182:14	pulling
148:20	89:25	202:2	154:24
201:12	90:10,18	provided	208:7
privacy	project 8:5	11:11,17	1 ΓΓ:0
185:18,19	40:23	16:25	punky 55:9
·	74:3,15,24	18:13	<pre>purely 64:25</pre>
probable	75:4,6,11,		89:24
87:25	16,24	62:9,11	92:23
probe 60:9	95:10,21	65:8,11	154:5
problem	96:9 98:9	69:11,20	purplish
98:16		70:18	161:2
115:11	pronounce	71:4,19,20	TOT.7
129:10	86:1	72:2,7,9	purpose
139:19	pronounced	81:12	133:13
142:17	28:16	104:9	purposes
165:12	29:19 35:2	123:5	24:10 66:2
	168:19	126:18	135:9
177:11	100 17	T70.TQ	100.0

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: push..read

			index: pusnread
147:8		160:14	rain 27:18
169:21	Q	177:3	ram's 119:10
179:18		178:12,13,	ram's 119·10
46.01	qualification	17 181:2	random
push 46:21	107:18	195:21	121:8,11
54:9	qualifications	196:2	rapid 53:4
pushed	84:23	207:3	146:22
124:10	85:21		150:2
pushing 54:1	92:25 93:4	questioning	
	107:13,14,	29:16	rapidly
put 36:5	23	questions	147:25
43:6 50:14		7:1 8:25	rare 174:1
52:12	qualified	9:7 10:11	rate 164:5
60:11	56:10	80:16	
76:14	85:18	97:14	182:9,16,
78:21	question	107:2	18,21
99:4,8	7:13 9:16,	156:3	183:2,10
102:11	20 10:1,2	200:19	190:10
106:11	14:24	208:8,16,	rating 89:1
120:6	16:19	20	Raymond 6:23
127:6	21:11		_
128:24	25:25	quick 98:18	re-qualified
135:22	30:15 31:5	127:1	85:16
157:24	40:2,6	156:25	reach 21:24
160:11	42:5 44:8	quicker 55:8	22:2,4
174:25	46:7 67:5	124:20	reached 22:3
175:2	74:4,10	147:18	reactied ZZ·3
176:13	97:11,12	quickly	reaching
183:9	105:22	55:11 96:6	44:1
189:13,22	111:13	163:13	read 38:12
191:3	117:4,9,11	100 110	42:17
207:4	121:2,15,		77:5,6
putting	22 124:4	R	80:25
52:18	128:12	radical	81:24
165:16,20	129:17	164:4	82:11
184:8	137:20		92:19
189:21	148:9	radically	114:2
100.21	156:4,21	190:4	155:20,22,

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: reading..reflection

Index: readingreflection
1 135:25
,9 red 105:7
0,22 122:4
,8 147:20
5 173:7
190:3
1
192:13 1
reduces
2tion 163:12
2 reestablish
3 reestablish 46:22
nded
refer 27:11
34:17 71:6
6:22 103:3
141:10
,12 170:11
,13 172:21
9,14 references
206.0
206:9
referred
94:8 95:11
96:7
50:2 referring
,19 15:17 23:4
30:25 63:8
68:9,24
140:15
,4 198:15
5 199:14
refers 24:6
83:8
reflecting
179:2
7
2 reflection

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC.

Michael R. Hughes on 04/25/2024 **Index:** refresh..residential 31:11,13 138:22 146:25 replacement 150:10 34:16 145:9 184:8 37:13,20, 186:4 refresh representative 22 92:19 187:21 19:21 20:6 173:17 115:18 191:9,24 regain 151:7 representing 141:14 192:20 8:3 164:1 144:10,15, 193:17 **regard** 55:13 203:22 16 173:22 replacing regrow 198:6 reproduce 188:15 181:24 201:17 186:16 188:21 relation 202:11 191:10 reproduction 39:13 207:4 192:24 186:15 106:15 remove 8:13 replant 170:12 request removed 186:25 21:14 relative 145:25 187:3,6 109:2 115:7 renew 86:7 report requested releasing 19:11,13, 13:5 19:15 54:10 renewal 20 20:17 108:25 107:16 relevant 21:18,22 requests 52:21 renewed 183:17 21:21 86:13,14 114:13,17, 207:16 19,21 require **repair** 49:18 reporter 6:2 115:11 143:23 50:20,25 9:3 10:5 180:7 51:5 required 113:16 8:13 reliable repairing represent 55:7 51:10 research 6:17 94:17 171:19 relied 109:24 rephrase 205:12 205:25 148:13 118:6 138:19 relieve 57:6 reserves replace 142:15 80:25 186:10 remains 145:6 81:16,24 187:7 143:21 157:14,20 82:4,18 188:18 remarkable 159:11 residence replaced 196:23 167:9 203:8 191:7 194:6 remember 192:5 residential 30:21 representation

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index

ichael R. Hughes on			Index: resolvedro
203:7	13:21	118:3	89:2,4,8,
resolved	rest 90:16	125:7,11,	16,18,19,
204:21	132:19	14,17	23 90:1,5,
201-21	166:14,16	126:5	6,8,22,24
resources	176:23	129:24	91:6,17
55:1		155:12	92:17
respect	Restate 21:5	172:24	108:12
23:17	restricted	173:2	river 66:8,
126:10	114:25	181:19	10 74:23
182:13	result 33:25	208:2	75:12,22
rognond	88:21	reviewed	76:1
respond 152:23	149:5	13:17,19	
T37.73	エサブ・コ	16:6	road 8:2,4
responding	results 87:8	128:18	25:18
54:3	115:1	140·10	28:23 29:5
119:21,22	resume 107:8	revoked	30:4,18,
response		204:12	19,20,21
13:10,13,	retained	rhetorical	31:8 32:5
22 46:19	13:24	128:12	37:23 38:5
51:15,20	retested		40:24 41:4
53:17,23,	107:20,23,	ridges 160:1	58:11 59:6
24 54:6,	24	right-hand	62:1,2,8,
		85:21	13,14,15,
13,14	retired	142:19,22	18,23
55:12	172:5	168:17	63:1,3,8,
57:16	return 134:5		14,23
119:15,24	returned	ring 134:1,	64:12,14,
126:20	186:19	7	16,17,19
128:6	TOO.T3	rings 52:18,	
132:7	returning	20 61:16	66:4,6,8,
144:18	184:2	133:24	10,12,14,
150:25	review 12:14	134:6	16,17,19,
153:18	13:5 14:22	risk 85:4,	21 67:13,
169:9,10	15:10,21	8,9,15,17	14,18
199:9,11	16:1,3	86:18	73:2,5,11,
responses	107:6		00 54 14
7:5 9:12	108:8	87:3,6,10,	16,23
responsive	115:15	13 88:6,7, 9,14,19	75:12,22,
		4 171 141	1.1 • 1 / / . / .

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: roads..rot

Michael R. Hughes on 04	4/25/2024		Index: roadsrot
24 76:1,	roadside	113:7	10,16,18,
16,17,18,		115:20,22	23 76:10
24 77:1	170:24	116:6,14,	77:3 87:22
78:19,21	175:15	17 117:6,	105:5,7,
79:24	196:22	20 118:10	18,19,23,
87:14	rock 144:16	119:2,3,6,	25 106:2,
88:12,16		12,17,20	5,6 114:24
89:3,14	rocks	121:2,18	116:3,4,5,
90:11,15	144:10,15	138:2	9,12,24,25
91:19	role 201:25	143:16	117:4,6,
95:11,12	202:1,8	149:21	12,16
96:20,21,	roll 54:23	150:17	118:16,19
22 97:5,8		154:16,25	120:1,6
101:18,19,	rolling	157:25	136:4
21 102:8,	54:5,20	158:13	148:25
19,25	118:17,25	164:12,20,	149:1
106:20	119:9,10,	22 168:10,	150:6,14,
109:25	14 134:20	12,14	22 153:13,
112:11,16,	196:25	173:8	25 154:1
22 138:3	197:2,24	174:17	158:11,14
139:5,14	199:5	175:7	164:13,17,
140:19,21	roof 203:16	176:4,21,	20 165:8,
144:13	room 14:11	23 177:4,	13 166:1
154:3,6,8,	32:5 53:11	13,17	168:20
10,13	173:15	178:1,15,	
157:18,21,	200:10	20 179:8	
22 158:1,		180:12,21,	
16 164:21		23 194:20	
165:3,5,9,	12,16,20	195:2,16	21 176:7
12,16,19,		199:8	178:24
22 166:1,6		200:11	•
168:5	56:18	roots 36:11,	180:25
169:7		24 50:1,18	195:4
170:12,15		51:4,9,10	199:23
175:9,11	105:1,11, 13 15	56:14,15	200:7
180:4,5	13,15 106:4,13,	57:9,11	ropes 197:6
roads 43:21,	14,18,22	58:1,4,7,	rot 164:11
23 66:25	11,10,22	15 59:3,	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024

Index: rotted..set

1ichael R. Hughes on 0 4	1/25/2024		Index: rotted
rotted 169:1	s.R. 11:3	scope 50:8	send 100:14
rotting	49:1	75:10,18	sending
110:22	safely	86:23	54:10
	_	108:22	
rough 135:19	183:11	121:9	sense 47:1
roughly	sake 83:5	06.00	176:25
47:11	sandwich	Scott 26:22,	178:4
151:3	98:19	23 41:18	190:15
191:17	90.19	48:23,24	199:24
191.1	sandy 174:5	71:8 74:10	
rules 7:10	sank 76:20	96:12	sentence
9:1,5		138:8	23:11
run 67:16	sapling	139:3	38:12 69:8
104:24	182:2	screen	82:3,9,17,
	saplings	184:8,9,10	25 83:7
168:23	188:21	• •	sentinel
running		185:10,17,	120:5
37:25	sapwood	21 186:20	
101:23	163:11	187:17	separate
159:5	164:11	188:15	199:25
167:1	166:25	screening	series
1 40 • 1 4	Savings	184:6	106:17
runs 140:14	133:18		162:2
173:14		scrubbing	175:19
rush 124:21	scar 45:4	45:9	
rushed	161:14	scuffed	service
	169:5	149:20	179:15
124:9,15	scary 88:24	seam 168:19	services
rushing	_		14:2,5
124:17	scenario	section	49:1
ruts 37:3,	178:13	105:10	
16,19	scenarios	126:24	servicing
·	149:13	132:9	150:15
rutted 37:12	183:23	134:19	sessions
	schedule	sections	208:3
S		156:7	set 61:19
	83:21,23		69:6 93:2
S-H-I-G-O	84:4	select	
205:19	school 89:1	192:19	123:1 178:12
			1 / 🔾 🕶 1 ')

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: sets..similar

Michael R. Hughes on 04	/25/2024		Index: setssimilar
sets 194:15	158:25	68:18,20	196:21,22
shade 187:17	159:2,3	73:11,20	197:10
199:3	170:18,19	75:7,8	198:10
	183:2	76:19	199:10
shadow	showing	101:3	202:21
132:18,20	28:16 31:3	102:9	203:21
shadows	46:21	109:22	sideline
132:16	57:10	111:20	12:5
shallow	68:24	112:25	
117:18	89:10	117:5	sides 96:23
	106:17	119:7,8	111:3
shape 70:12	117:5,20	120:1	166:18
97:9	146:9,12	121:20	sideways
share 14:10	158:16,21	122:6	105:17
146.0	164:1	132:11	sight 195:4
shed 146:2	168:6	137:16	_
sheet 100:13	170:17	138:17	sign 45:5
114:21	196:24	139:20	163:5,6
125:19	197:7	142:2,20,	208:20,21
shh 122:8		22,23	signature
	shows 113:6	143:11	6:6
Shigo 205:18	140:23	145:4	
ship 186:8	199:6	150:9,11,	significance 38:24
shipped	shrunk 107:3	15,19,25	196:17
186:9	side 8:3	158:15,16	190.17
	28:23	159:19	significant
shocked	29:8,9,10,	160:7,18	58:2 152:7
204:2	14,19	161:12,14	significantly
shores	30:3,5	163:2	38:19
122:10	31:2,4	164:9,14,	-: F2:10
shot 199:1,	33:11,14	18 165:1	signs 53:19 60:20
2 203:16	35:2	166:8,17	197:7
	37:17,19,	167:1,15	⊥ <i>⊅ • </i>
show 48:9	21 38:7	168:5,6,	silver 190:3
106:15	58:14,24	12,15,16	similar 52:8
117:25	62:13,14	169:9,25	108:4
132:21	63:16,17	170:1,2,5,	111:16,22
157:5	64:20,22	16 185:19	136:23
	,		

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: simple..soil

Michael R. Hughes on (04/25/2024		Index: simplesoil
137:1,14	40:25	70:5 77:22	slough 135:5
138:12	41:10	80:7 84:15	146:16
144:19	42:23 67:6	93:19	160:19
147:23	69:1 71:8,	112:10	sloughed
160:7	13,20,24	165:25	146:4
183:6,8	72:10,11	176:19	197:8,22
192:1	78:15,16,	181:3	
simple 180:2	25 84:18	184:14	sloughing
simple 100.2	87:6,11,	186:2,12,	196:19
simply 43:24	12,13,23	16 187:22	197:12
52:24	94:24 95:5	situations	slow 170:25
57:18	96:18 98:7	50:19 59:7	
67:12,15	103:1	87:14	slowly 146:5
71:14	104:6		small 54:10
182:21	106:15	204:20	59:22
186:14		size 28:13	182:7
single	122:2	36:1,8	183:3
100:12	127:1	52:4,5	199:23
	133:10	53:2 74:2	200:12
sinking	140:24	105:20	smaller
27:25	148:4	182:1	148:15
sit 18:10	152:12,13	183:4	
163:22	159:20	186:23	snakes 197:6
site 15:15,	161:1	188:20	snapped
17,18	163:16,24	190:5	197:21
16:1,3,4	202:8,15	192:6,22	snow 27:8,
19:16,23	203:8	193:1,4,5,	10,12,18
20:7,19	206:22	6	10,12,10
21:4,9,12		sketch	snowplow
22:11,12,	sitting	63:11,12,	45:8 147:2
13 23:8,	71:16	13 66:4	so-called
14,16	89:16	73:20	194:8
24:17,23	176:10	75:1,21	Cogiota OF 12
25:1,17	189:25	101:22	Society 85:3
26:6,18	situation		soft 38:3
27:2,16,20	7:24 22:18	sky 203:14	165:23
28:6	41:20	slew 34:9	soil 56:14
39:15,20	47:14 57:3	slot 183:15	59:19
37 13,20		2200 100-10	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024

Index: soils..SR

73:23 76:9 105:9	142:23 170:1	110:9	splayed
105:9	170.1		
	I / U • I	150:8	179:9
117:16,23,	southeast	206:1	splitter
24 136:3	101:3	speaks 9:8	122:13
173:11,18	T27.TT	specialized	splitting
174:3,5,21	142:23	116:1	193:13
175:8	Southern		
178:22	200:25	specially	
194:20		186:9	54:4 71:12
soils 60:8,	southwest	specialty	spot 103:20
10,15	170:9	195:22	142:1
solution	space 78:17	species	143:18
184:2	162:23,25	49:23	199:22
	n spade 56:9	121:23	200:13,15
solve 183:2	57:4 60:13		spots 37:8
sonic 36:23		185:6	_
sort 10:14	<pre>spading 56:6,10,</pre>	192:1	spraying 154:6
120:18	13,17,20	193:9	134.0
148:1	57:25	specific	spread
197:13	58:20	16:19	146:22,23
sound 10:3		61:7,8	195:11,19
19:3 110:2		85:9	spreadsheet
138:21	·	122:1,2	189:24
	1	128:3	190:1
sounds 66:11		163:23	spring 47:5
204:10	-	specifics	134:3
204.10	speak 19:20	206:14	165:1
sources	27:5 29:5,		sprout
114:6	25 30:1	speed 164:5	161:25
south 29:8,	54:22	spell 6:22	
9,13,19	102:4	spend 58:2	sprouts
30:3,5	112:23	206:23	54:1,2
31:2,24	199:14		162:2,5
32:3,7	speaking	spent 33:13	square
	7:12 29:22	78:2	195:18,25
63:19	49:21	182:23 204:14,24	sr 10:23
68:13,18	56:12		

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: stability..stump

Michael R. Hughes on 04	4/25/2024		Index: stabilitystump
stability	164:25	167:2,3,7	134:8
106:6	168:23	169:6,7	street 80:3
168:24	170:25	170:25	89:17
177:10	173:13	196:22	167:7
stage 154:18	177:9	197:9	176:11
	starts 135:5	stems 35:16	
stamp 101:13	177:10	162:18	strength
stand 85:2		197:4	163:12
150:16	state 6:21	198:13	170:22
Chandanda	8:1,4,8,	199:20,25	stress 10:14
Standards 90:3	15,16	200:6	
90.3	89:22		strictly
standing	152:17	step 139:6	18:24
46:9 137:5	154:11	stick 50:16	strike 63:25
standpoint	state's	178:25	73:18,25
185:1	203:21	193:8	134:25
			striking
stands	stated 78:10	-	69:24
172:12	129:19	53:14	
staple 108:7	statement	stood 28:12	strip 134:17
126:1	34:2 42:17	120:2,4	struck 43:16
127:6	60:22 77:5	stop 17:22	structure
130:13	114:23	67:25	36:9,12
131:18	125:20	139:13	168:9
133:7	statements		
155:9	35:20	storm 105:16	stuck 62:21
stapler	49:14	story	study 55:19
14:13	129:2	153:10,17	-
		straight	stuff 47:25 59:9 67:23
start 71:25	states 23:6	31:24	88:24 97:3
143:16	stay 77:16	96:22	
201:13	135:3		159:21
started 8:24	ata 120.E	122:4 149:10	172:15
86:12	stayed 139:5		206:2
123:6	stem 162:20	176:14	stump 161:25
	163:7	straws	162:3,12
starting	166:19,21,	147:23	169:1,2
160:19	22,23	streaks	187:13
161:4		2010WID	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: stump-sprouted..suspended

Michael R. Hughes on 04/25/2024		Index: st	ump-sproutedsuspended
stump-sprouted	81:19	sunk 76:20,	76:14
162:8	substantial	21	110:25
stumps	118:20	sunlight	116:19
187:13		198:24	117:16
190:23	substantially		154:14
	163:13	sunny 27:4	158:1
stupid 144:9	sucker 54:2	sunshine	165:6,8,
subcontracted	sudden 89:4	144:1	23,24
202:2		Superior	170:16
subject	suddenly	11:6	174:13
23:5,7	70:7 89:15		surfaces
24:2,3	175:11	supplement	154:3,13
49:20	176:13	82:1,19	163:4
50:16 70:5	197:25	supplemented	176:7
81:18	suffer 151:2	83:10	
107:16,23	suffered	supplements	surprise
109:23	43:17	18:4	203:17
121:7,10	144:23		surrounding
132:2	147:4	support 62:6	18:22
137:24	151:2	76:25	23:20
143:10	152:1	106:3,5	24:13
157:12		120:6	28:13,14
191:3,4,19	suggested	169:13	38:3 61:22
196:11	148:11	205:14	89:11
205:16	suggests	supporting	101:4
	150:13	105:12,18	104:16
submitted	Suites	suppose	surroundings
100:8	203:15	21:13	31:18
subpoena		25:21	
126:11,14,	summary 18:7	28:24	survive
20 128:6	77:19	30:25	43:19 51:7
subsection	135:22	38:1,10	surviving
23:5	156:16	·	36:14
	summer 134:3	supposing	175:18
subsequent	sun 33:2	190:6	survivors
16:5 176:5	132:12	surface	162:4,7
substance	198:25	43:17	·
13:18 15:8	T 9 0 • 2 3	63:22	suspended
L			

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: sworn..testify

Michael R. Hughes on 04	1/25/2024		Index: sworntestify
204:12	taking 7:8	66:24 70:6	182:12
sworn 6:10	10:15	74:22	193:16
10:5	90:14	76:22	technology
	98:14,18	88:24 89:2	36:23
system	118:21	91:23	
55:19,21	175:21	95:17 98:9	tedious
56:18	178:21	101:23	58:18
57:17 90:2	180:6	121:25	telephone
104:22	talk 13:15	122:2,9	130:1
105:2,11	50:9 55:25	140:1,2	tend 200:6,
106:6,13,	56:8	144:7	7
14,18,22	121:10,11	151:24	·
116:6,18	122:19	153:1	term 43:14
138:2	161:5	157:15	115:18
150:17	200:25	164:17	116:1
154:16,25		167:19	176:18
158:1	talked	175:16	188:22
173:7,8	64:11,15	180:8,9	termed
174:17	83:16	187:10	205:23
175:7	97:22	191:13	t o maria a
176:4	107:15	197:14	terming 102:9
177:17	108:18	199:19	102.9
178:1,15,		tall 188:1	terminology
20 179:8			35:8,9
180:13,21,		tangible	terms 44:15
23 194:20		190:14	152:2
195:17	177:14	targeted	
systems	200:22	156:2	test 52:7
115:1	201:12	task 40:12	tester 60:7
117:20	208:4	cask 10.12	testified
195:3	talking	taught	6:11 8:11
	16:16	200:24	
T	30:2,5	tearing	testify 17:9
	37:20	185:11	18:21 21:3
T-R-A-Q	47:9,10,15	technical	23:6,19
85:25 86:3	49:19	115:18	38:18
takes 124:12	50:8,15		53:16
	56:25 61:7	technique	61:22

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: testifying..times

Michael R. Hughes on 04	1/25/2024		Index: testifyingtimes
69:10,19	34:8,9	tied 153:25	17 94:14,
81:18,20	43:21,24	154:1	23,24
201:18	44:4,12	tight 180:16	95:14
Logbifing	61:10		97:19 98:7
testifying 10:22	77:18	Tim 19:5	101:13
10.22	78:23	28:8 29:1	102:11
205:16	84:17	31:1 64:18	108:5
	89:21	96:14	111:2,11
testimony	93:18 97:3	Tim's 150:8	112:6
6:8 21:8	106:15	t: 7·00	114:17
23:5	124:19	time 7:22,	115:8
testing	127:2	23 15:13,	120:3
143:23	135:12	14,15,17, 21 16:24	122:4
167:4	153:15,16	21 16.24 22:2,3	123:23
tests 36:19	163:25	23:24	134:8,23
	171:20		135:14
48:1	175:20	24:12,20 25:16,19	145:16
There'll	185:7	26:3 27:24	148:20
106:17	207:10,11	28:19	149:16
thin 11:20	thinking	29:21 31:5	151:5
45:19	88:9	33:1,14	152:24
80:16	123:22	38:6 39:2,	153:1,6
thing 7:9,10		6,20	159:25
18:19		41:15,19	160:9,11,
19:18	99:11	43:4	18 164:10
25:14	116:10	46:16,24	168:10
50:13 57:5	139:12	47:6,11	175:10
76:4 88:1	155:25	48:5 49:9	177:4
90:16	167:18	52:11 53:9	183:1,6,
117:8	thread	55:1,9	12,13
154:17	151:23	57:22	190:9
173:22	three-quarters		200:16
175:20	58:13	61:6 65:4	204:14,24
201:6		67:17	206:23
206:18,20	throwing	68:17	207:22
	97:11	71:7,9,22	times 7:19
things 17:18	109:12	75:14	22:11
20:8 27:21	tie 97:4	78:1,2,14,	
		, - , ,	•

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: timestamp..tree

R5:16	Michael R. Hughes on 04	1/25/2024		Index: timestamptree
126:25 133:17 189:24 transplantable 207:21 163:22 Touching 192:11 timestamp 172:12 206:6 TRAQ 85:25 57:13 200:22 206:17,18 tough 21:11 86:3,4,9, timing 135:16,19 told 39:18, 22:5 53:8, 12 87:5 7 minothy 6:18 21 41:7 70:12,15 90:17 timothy 6:18 21 41:7 70:12,15 90:17 timothy 6:18 21 41:7 70:12,15 90:17 timothy 6:18 21 41:7 70:12,15 90:17 tips 179:4, tonight tonight town 162:10 traveling tips 179:4, tonight track 8:20 tracks 37:5, 102:17 tire 37:5, tools 36:3 105:24 205:13 tracks 37:5, 17 76:21 treated 154:4 tracks 37:5, 17 76:21 treatise	85:16	107:10	total 24:17,	translocates
timestamp 172:12 200:22 200:25 57:13 200:27 timing 135:16,19 tolid 39:18, 21 41:7 70:12,15 90:17 timothy 6:18 42:6 45:1 197:23 107:15,18 tip 198:19 ton 14:11 town 162:10 traveling 102:17 tips 179:4, tonight 10 120:25 tire 37:5, 16 76:20 102:12,13, 20 103:2, top 28:16 76:16 120:25,3,24 45:22,24 tires 38:5 46:2 80:24 76:16 84:20 122:16 6:8 7:8,14 22:10,16, 21:18:18 138:1 138:1 138:1 138:1 138:1 138:1 138:1 138:1 138:1 138:1 145:22 17,20 197:1,24 158:20 169:20 6,13 25:9, ton 20:19,21 transcript 20:19 transcript 20:19 147:9 24:1,2,5, 6,13 10:12 10:12 10:15 10:12 10:15 10:12 11:10 torn 20:19 21:10:12 11:10 torn 20:19 11:10 torn 20:19 21:10:12 11:10 torn 20:10 torn 20:10 21:10:12 11:10 torn 20:19 21:10:12 11:10 torn 20:10 torn 20:10 21:10:12 20:10 11:10 torn 20:10	104:24	108:19	20 100:4,9	45:22
timestamp	126:25	133:17	189:24	trangnlantable
timestamp 172:12 200:22 206:6 TRAQ 85:25 57:13 200:12 tough 21:11 86:3,4,9, timing 135:16,19 told 39:18, 22:5 53:8, 12 87:5 Timothy 6:18 42:6 45:1 197:23 107:15,18 11:2 195:13 town 162:10 traveling tip 198:19 ton 14:11 177:3 102:17 tips 179:4, tonight 120:25 track 8:20 treated 102:12,13, tool 60:4 tracks 37:5, 154:4 16 76:20 tools 36:3 105:24 205:13 20 103:2, top 28:16 Trade 126:1 treatments 12 104:19 33:8 43:22 traffic 205:2 105:3,24 45:22,24 87:15 tree 8:1 tires 38:5 46:2 80:24 traffic 205:2 <t< td=""><td>207:21</td><td>163:22</td><td>Toughing</td><td>_</td></t<>	207:21	163:22	Toughing	_
timing 135:16,19 135:16,19 135:16,19 135:16,19 135:16,19 11:2 11:2 11:2 11:2 11:2 11:2 11:2 11	timestamp		_	
timing	57:13			~
told 39:18, 21 41:7 9 59:8 89:9,24 Timothy 6:18 11:2 42:6 45:1 195:13 197:23 107:15,18 tip 198:19 ton 14:11 town 162:10 traveling 177:3 102:17 tips 179:4, 10 120:25 tonight 120:25 track 8:20 treated 154:4 tire 37:5, 16 76:20 102:12,13, 20 103:2, top 28:16 Trade 126:1 treatise 1205:2 tools 36:3 105:24 205:13 10 2:12,13, 20 103:2, top 28:16 Trade 126:1 treatments 12:104:19 33:8 43:22 traffic 205:2 track 126:1 treatments 12:105:3,24 45:22,24 87:15 tree 8:1 12 104:19 38:5 46:2 80:24 trinscribing 19:3 84:22 87:15 tree 8:1 76:16 84:22 94:16 transcribing 19:24 transcribing 18:22,24 19:24 16:18:18 138:1 145:22 17,20 19:24 147:9 24:1,2,5, 6:16:22 17,20 147:9 24:1,2,5, 6:16:22 17,20 147:9 24:1,2,5, 6:16:22 17,20 147:9 24:1,2,5, 6:16:20 6:13:25:9, 181:7 16:24:26:3 tissues 45:4 174:8 18:7 147:22 179:11 transcript wise 170:10 28:5,7,9, transformers 10:17,20, 9:1 10:12 190:22 transformers 27:24 transcript	Limina	206:17,18		
Timothy 6:18	_	told 39:18,		
Timothy 6.18	133.10,19			·
tip 198:19 ton 14:11 town 162:10 traveling 177:3 102:17 tips 179:4, tonight 10 120:25 track 8:20 treated 120:25 tracks 37:5, 16 76:20 102:12,13, 20 103:2, top 28:16 Trade 126:1 treatments 12 104:19 33:8 43:22 105:3,24 45:22,24 87:15 tree 8:1 15:18 76:16 84:22 94:16 transcript 20:19 54:4 137:3 68:25 24 23:2,7, 18:18 138:1 145:22 197:1,24 158:20 169:20 6,13 25:9, tipsue 45:4 174:8 181:7 16,24 26:3 190:22 transcript 27:24 titles 206:4 torn 20:19 10:12 11:10 torsions 160:16 transcledd 30:4,21	Timothy 6:18	42:6 45:1	•	
tip 198:19 ton 14:11 town 162:10 traveling 177:3 102:17 tips 179:4, tonight 120:25 tire 37:5, tool 60:4 17 76:21 treatise 102:12,13, 20 103:2, top 28:16 Trade 126:1 treatments 12 104:19 33:8 43:22 105:3,24 45:22,24 87:15 tree 8:1 tires 38:5 46:2 80:24 87:15 tree 8:1 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 54:4 137:3 68:25 24 23:2,7, 145:22 153:9 147:9 24:18.18 138:1 145:22 179:1.24 158:20 169:20 6:13 25:9, 147:22 179:11 treatments 160:16 transcript 27:24 transcript 20:19 tissue 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript 27:24 transcript 27:24 transcript 27:24 transcript 27:24 transcript 27:24 transcript 27:24 158:20 169:20 6,13 25:9, 147:9 24:1,2,5, 16,24 26:3 147:22 179:11 transcript 27:24 tran	11:2		197:23	10/:15,18
tips 179:4, 10 120:25 track 8:20 treated 154:4 tracks 37:5, 16 76:20 tools 36:3 105:24 205:13 20 103:2, top 28:16 12 104:19 33:8 43:22 105:3,24 45:22,24 46:2 80:24 trees 38:5 46:2 80:24 transcribing 18:22,24 195:12 88:10 9:3 19:24 transcribing 18:22,24 195:12 88:10 9:3 19:24 transcribt 20:19 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 418:18 138:1 145:22 17,20 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 179:11 transcript 27:24 titles 206:4 torn 20:19 10:12 1:10 torsions 16:21 transcribt 20:24 transcript 20:19 10:12 1:10 torsions 16:21 transcript 27:24 transc	tip 198:19		town 162:10	traveling
tire 37:5, tool 60:4 track 37:5, 16 76:20 tools 36:3 105:24 205:13 20 103:2, top 28:16 Trade 126:1 treatments 12 104:19 33:8 43:22 traffic 205:2 105:3,24 45:22,24 87:15 tree 8:1 tires 38:5 46:2 80:24 transcribing 9:3 18:22,24 195:12 94:16 transcript 20:19 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 13:18:18 138:1 145:22 17,20 197:1,24 158:20 169:20 6,13 25:9, 169:20 transcript 27:24 transcript	_	ton 14:11	177:3	102:17
tire 37:5, tool 60:4 17 76:21 treatise 102:12,13, top 28:16 Trade 126:1 treatments 12 104:19 33:8 43:22 traffic 205:2 105:3,24 45:22,24 87:15 tree 8:1 15:18 76:16 84:22 transcribing 9:3 18:22,24 195:12 94:16 transcript 20:19 54:4 137:3 68:25 24 23:2,7, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 153:9 147:9 24:1,2,5, 167:2 158:20 169:20 6,13 25:9, 169:20 6,13 25:9, 169:20 6,13 25:9, 160:24 26:3 17:10 torsions transformers 10,17,20, 9:1 10:12 10:16 torsions 10:10 160:16	_	tonight	track 8:20	treated
tire 37:5, tool 60:4 16 76:20 102:12,13, tools 36:3 20 103:2, top 28:16 12 104:19 33:8 43:22 105:3,24 45:22,24 46:2 80:24 195:12 188:10 9:3 19:24 transcribing 9:3 19:24 tissue 45:20 122:16 54:4 137:3 168:25 122:16 54:4 137:3 167:2 197:1,24 158:20 169:20 6,13 25:9, 16,24 26:3 177:20 27:24 titles 206:4 transcript- wise 170:10 28:5,7,9, today 6:20 9:1 10:12 150:16 transformers 97:3 20,24 translocated 30:4,21	10	120:25		1 = 1 • 1
16 76:20 102:12,13, tools 36:3 105:24 205:13 20 103:2, top 28:16 Trade 126:1 treatments 12 104:19 33:8 43:22 traffic 205:2 105:3,24 45:22,24 87:15 tree 8:1 tires 38:5 46:2 80:24	tire 37:5,	tool 60:4		
20 103:2, top 28:16 Trade 126:1 treatments 12 104:19	16 76:20			
20 103:2, top 28:16 Trade 126:1 treatments 12 104:19	102:12,13,	tools 36:3	105:24	205:13
12 104:19 33:8 43:22 traffic 205:2 105:3,24 45:22,24 87:15 tree 8:1 tires 38:5 46:2 80:24 transcribing 15:18 76:16 84:22 9:3 19:24 195:12 94:16 transcript 20:19 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 54:4 137:3 68:25 24 23:2,7, 118:18 138:1 145:22 17,20 167:2 153:9 147:9 24:1,2,5, 197:1,24 158:20 169:20 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript-wise 170:10 28:5,7,9, today 6:20 torn transformers 10,17,20, 9:1 10:12 206:19,21 97:3 20,24 11:10 torsions translocated 30:4,21		top 28:16	Trade 126:1	treatments
105:3,24 45:22,24 87:15 tree 8:1 tires 38:5 84:22 transcribing 15:18 76:16 84:22 9:3 19:24 195:12 94:16 transcript 20:19 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 54:4 137:3 68:25 24 23:2,7, 118:18 138:1 145:22 17,20 167:2 153:9 147:9 24:1,2,5, 197:1,24 158:20 169:20 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript- 27:24 titles 206:4 ton transformers 10,17,20, 9:1 10:12 206:19,21 97:3 20,24 11:10 torsions translocated 30:4,21		_		
tires 38:5				
76:16 195:12 88:10 9:3 18:22,24 19:24 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 18:18 138:1 145:22 17,20 197:1,24 158:20 158:20 169:20 6,13 25:9, tissues 45:4 174:8 147:22 179:11 titles 206:4 torn 9:1 10:12 15:10 torsions 18:22,24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:24 19:25 17,20 147:9 24:1,2,5, 16,24 26:3 17:20 10,17,20, 21 29:14, 20,24 30:4,21	_	•	87:15	
195:12 88:10 9:3 18:22,24 195:12 94:16 transcript 20:19 tissue 45:20 122:16 6:8 7:8,14 22:10,16, 54:4 137:3 68:25 24 23:2,7, 118:18 138:1 145:22 17,20 167:2 153:9 147:9 24:1,2,5, 197:1,24 158:20 169:20 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript- 27:24 titles 206:4 190:22 transformers 10,17,20, 9:1 10:12 206:19,21 97:3 21 29:14, 10:10 torsions translocated 30:4,21			transcribing	
tissue 45:20 122:16 6:8 7:8,14 22:10,16, 54:4 137:3 68:25 24 23:2,7, 118:18 138:1 145:22 17,20 197:1,24 158:20 169:20 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript titles 206:4 torn transformers 9:1 10:12 torsions translocated 10:10 torsions translocated 160:16 transcript 20:19 20:10 20:19 20:10 20:19 20:10 20:19 20:19 20:19 20:19 20:19 20:19 20:19 20:19 20:19 20:19 20:10 2			9:3	
tissue 45:20 122:16 6:8 7:8,14 22:10,16, 54:4 137:3 68:25 24 23:2,7, 167:2 153:9 147:9 24:1,2,5, 197:1,24 158:20 169:20 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript- wise 170:10 28:5,7,9, today 6:20 206:19,21 97:3 20,24 11:10 torsions translocated 30:4,21	195:12		transcript	
54:4 137:3 68:25 24 23:2,7, 118:18 138:1 145:22 17,20 167:2 153:9 147:9 24:1,2,5, 197:1,24 158:20 169:20 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript- 27:24 titles 206:4 torn transformers 10,17,20, 9:1 10:12 206:19,21 97:3 21 29:14, 11:10 torsions translocated 30:4,21	tissue 45:20		_	
118:18 167:2 197:1,24 158:20 169:20 169:20 16,13 25:9, 1722 179:11 18:18 118:18 167:2 197:1,24 158:20 169:20 169:20 16,13 25:9, 16,24 26:3 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 190:22 179:11 18:10 160:16 18:10 160:16	54:4	-		
167:2 197:1,24 158:20 169:20 24:1,2,5, 6,13 25:9, tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript- wise 170:10 28:5,7,9, today 6:20 9:1 10:12 11:10 torsions 160:16 147:9 24:1,2,5, 6,13 25:9, 16,24 26:3 179:11 transcript- yise 170:10 28:5,7,9, 206:19,21 97:3 20,24 30:4,21	118:18			
197:1,24 158:20 169:20 6,13 25:9, 147:22 179:11 titles 206:4 190:22 today 6:20 9:1 10:12 11:10 torsions 169:20 170:21 170	167:2			•
tissues 45:4 174:8 181:7 16,24 26:3 147:22 179:11 transcript- titles 206:4 torn transformers 206:19,21 97:3 21 29:14, 11:10 torsions translocated 30:4,21	197:1,24			
147:22 179:11 transcript- 27:24 titles 206:4 torn transformers 206:19,21 9:1 10:12 torsions 160,24 26.3 27:24 transcript- 27:24 wise 170:10 28:5,7,9, 21 29:14, 20,24 translocated 30:4,21	15.4			
titles 206:4 190:22 wise 170:10 28:5,7,9, today 6:20 torn transformers 10,17,20, 9:1 10:12 206:19,21 97:3 21 29:14, 11:10 torsions translocated 30:4,21			το1./	•
titles 206:4 wise 170:10 28:5,7,9, today 6:20 torn transformers 10,17,20, 9:1 10:12	141.22		-	
9:1 10:12 206:19,21 97:3 21 29:14, 11:10 torsions translocated 30:4,21	titles 206:4	エラリ・ムム	wise 170:10	
9:1 10:12 206:19,21 97:3 21 29:14, 11:10 torsions translocated 30:4,21	today 6:20	torn	transformers	10,17,20,
11:10 torsions translocated 20,24 30:4,21	_	206:19,21		21 29:14,
160:16 transfocated 30:4,21		torsions		20,24
46:1,2				30:4,21
	10.10	T00.T0	46:1,2	

Index: ..tree

IV	Michael R. Hughes on 04/25/2024 Index:tree					
	31:10	6,18 58:8,	11,13,17,	136:3,5		
	32:17,22	13 60:1,	22 89:1,4,	137:3,5,24		
	33:6,9,14,	13,17	8,10,15,20	139:6,24,		
	17,23,24	61:23,24	90:11,25	25 140:2,5		
	34:3,13,15		91:6,9,10,	142:2,4,5,		
	35:3,4,6,	63:3,16,	17 92:16,	7,10,13,		
	13,15,24	24,25	17,22	14,15,23,		
	36:1,4,13	64:6,20,	93:1,21	24 143:10,		
	37:4,18,21	21,23	94:3,5	11,20		
	38:19	65:10,21,	96:15,25	144:7,22		
	40:14,16,	23 67:1,19	101:3,5,	145:7,9,25		
	18 41:3	68:18,20	18,24,25	146:8,15,		
	42:18,22	69:14,16,	104:3,17,	16,20		
	43:4,5,8,	24,25	22 105:2,	147:3,10,		
	11,15,25	70:5,7,11,	20 106:3,	12,15,18,		
	44:6,20,25	20 71:15,	21 108:12	20,21		
	45:3,5,7,	16 72:18,	109:21,23	148:2,18,		
	18,21	21,22	110:4,8,	25 149:2,		
	46:3,6,8,	73:6,7,11,	12,16,22	11,12,15,		
	14,20,21	17,18,19,	111:2,7,8,	18 150:5,		
	47:5,19,	23 74:16,	11,14,25	9,11,12,		
	22,24	24 75:8	112:1,3,5,	15,19,20,		
	48:4,6,10,	76:8,10,	6,12	25 151:1,		
	12,20	13,19	113:5,7	6,9,25		
	49:3,10,	77:22	115:24	152:8,15,		
	15,20	78:2,3,11,	116:18	16,19		
	50:6,12,	12 79:4,	118:7,11,	153:6,8,10		
	14,16,18,	11,20	13,18	154:15,18,		
	19 51:6,	80:3,10,22	119:1,15,	20,21,24		
			21,25	I		
	17,23,24	12,13,18,	120:2,4,	157:11,12		
			12,13,14	I		
	12,17,19,	85:4,14,17	121:3,5,7,	13,15,16,		
	•		10,16,18,	·		
			24 122:5,6			
			131:25			
			132:2,9,16			
	24 57:1,3,	88:3,5,9,	135:4,9,12	162:16,21		

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: tree's..trunk

Michael R. Hughes on 04	1/25/2024		Index: tree'strunk
163:6,11,	18,24	25 188:7,	14 73:1,
24,25	197:18	8,11,13,	17,19 74:7
164:4,9,	198:10	19,20,23,	75:21
14,19	200:15	24,25	96:10,11
165:4,6,11	201:24	189:2,14,	113:1,2
166:4,5,8,	203:2,4	17,21	138:2
17,19	205:5,7	195:3	139:3,4,
167:11,13	207:5,7	202:3,4,	22,23
168:4,6,7,	208:6	13,19	178:18
21 170:20	tree's 53:25	203:13,16	179:12
174:15,20,	91:14	204:3,4	186:10
23 175:1,	106:22	206:6	194:2,4,17
4,6,17,24	118:14	trespass	195:24
176:1,3,6,	152:22	19:5 65:13	trucking
16,21			192:14
177:2,10,	trees 8:13	tri-axle	
16 178:3,	28:12	42:6 74:6,	
15,19,21,	49:17	8,12 75:22	
25 179:4,		76:7 96:6,	
8,19 180:3	85:7	11 148:24	•
181:24	104:16		
182:1,2,5,	105:17	194:9,15	
7,11,13	112:8	tri-axles	150:4
183:1,4	114:25	149:22	154:23
185:4,6,12	115:6	trial 8:17	194:7
186:10	121:8,11	21:2,7	true 205:23
187:11	122:9	201:19	trunk 28:21
189:22	149:20	202:25	29:12 31:3
190:17	153:3		33:25 34:6
191:3,4,7,	156:17	triangle	45:7 47:3
9,20,24	162:8,12,	96:23	51:18
192:4,6,	13,24	140:20	52:25
11,17,19,	169:2	174:24	54:15 55:6
20,24	184:7,17	triangular	57:17
193:17	185:17,21	96:25	64:1,3,5
194:18,20,	186:21,22,	trick 121:15	
25 195:17	25 187:2,		105:21
196:12,15,	4,7,8,17,	truck 59:13,	106:8

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: trunks..unobservable

Michael R. Hughes on 04	4/25/2024	Index: trunksunobservable	
113:5	42:2,9,12	183:23	40:17
116:5,20	71:9	typical	58:5,6
118:16	72:16,19	96:10	61:2
119:21	75:5	173:6	111:13
132:11	turned 30:22	200:5	184:25
134:19	66:12 83:1		understanding
146:1,15		typically	11:7
158:19	turning 73:5	52:22	40:11,17,
159:1,5	75:17	77:12,14,	21,23
168:8	83:19	15,16	41:1,25
179:12	95:11	105:7	42:10,20
185:3	102:24	106:21	64:16,25
187:20	turns 69:3	119:13	65:1 66:22
trunks	twisted 78:9		67:10,17
35:12,24	122:17,18	υ	68:11,14
161:19	122.17,10	- 110.11	74:1,23
162:22	twisting	ugly 119:11	75:4,13,20
	150:13	ultimately	98:8
Trust 6:19	160:17	112:2	
11:3	two-minute	unaware	understood
Trustee 6:19	208:14	123:13	45:14
11:3	type 19:18		125:1
truth 17:15	59:12,13,	unclear 64:2	undertook
60:23	20,21 88:1	uncover	23:17
141:14	90:16	56:14	unhappy
	90:16	underground	188:10
truthful		179:2	100.10
10:11	111:8 112:4		uniformly
turn 72:25		underneath	195:19
73:1 74:14	136:15	46:3 88:17	unlimited
165:4	149:6	106:19	40:3
181:18	174:2	173:19	
193:20	193:14	196:1	unloaded
	201:6	understand	59:14
turn-around	types 42:1	7:3 9:17,	unloading
28:24	50:2 54:12	19 10:6	41:1
turnaround	80:16	30:7	unobservable
41:4,17	116:2	36:24,25	55:21
		•	

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: unpaved..visit

Michael R. Hughes on 04	4/25/2024		Index: unpavedvisit
unpaved		173:11	92:17
165:6,10	v	varied 200:4	178:18,19
unreasonable			195:24
186:7	valuation	vee 140:21	vertical
	84:12	vehicle	146:21,23,
unsure 27:17	93:20,23,	32:18 42:7	25 159:6
71:8	24 94:2	75:3	25 159.0
unusual 63:4	182:14	102:16	vertically
122:6,15	201:24	104:20	146:15
·	202:7	126:24	147:7
up-to-date	203:3,4,13	137:25	vessel 122:4
46:10	valuations	138:1	147:19,21
update 16:13	84:8	139:21	•
		165:3,5,9	vibrating
updated	valuators	166:3	20:23
75:20	202:2		vicinity
95:23	203:18	195:2,11	62:2
upper 33:6	values	vehicles	
54:2,8	190:11	42:1,12	videos 48:8
85:21	1	43:19	vigor 151:7
117:15,23	valuing	71:15	196:23
161:22	203:11	76:25	197:7
163:2	van 27:24	89:6,20	
	28:2,3,4	126:25	vigorous 175:1,6
upsidedown 130:4	31:4 33:15	128:3,23,	1/3.1,0
	37:7,9	24 148:23,	visible
179:1	71:16	24 180:10,	36:12
useable	103:16	14 195:25	visit 15:18
43:18	104:4		16:1,3
utilities	138:1	verbal 7:5	19:16,23
22:14	195:7,24	9:12 39:13	20:7,19
22.14		207:15	21:4,10,13
utilize	vanilla	Verbally	23:8,14,16
184:4,20	87:17 89:4	39:9	24:17
utilizing	<pre>vantage 33:5</pre>	version 96:1	24·17 25:17
85:11,13	variable		
- ,	183:16	versus 11:3	26:6,19
		50:10	27:3,16,20
	variations	90:21	28:6

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Inde

Index: visual..wires

Michael R. Hughes on 04	1 /25/2024		Index: visualwires
39:16,21	walk 88:9,	weak 152:17	Westport
41:10 48:6	15,25	weaker	122:11
71:21,24	90:14	152:17	wet 27:21
72:10,11	walked 32:18		
95:6 98:7		weather	wheel 179:20
103:1	walking 19:1	22:15	196:1
104:7	32:21	27:2,15	wheels
111:12	139:14,17	website	194:15
133:11	wanted 8:25	114:3	195:7,9,10
140:24	26:1 74:4	wedge 161:19	196:3
148:4	99:8	_	white 28:4
163:16,24	114:14	wedged	103:16
206:22	206:21	161:23	104:4
visual 27:5	207:15	weed 165:21	134:8
55:15	wanting	weeds 154:7	138:1
105:14	65:12		139:21
		weekly	
visually 158:6	wash 87:17	149:16	whitish-
158.0	88:14	201:7	yellowish 198:8
vulnerable	water 45:21,	weigh 74:9	190.0
147:19	23 46:1	weight 74:2,	wide 195:10
	54:1	8 113:3	widening 8:4
W	122:10	195:11,12	_
	163:7	•	widespread 60:1,2
W-O-O-D	water-	weights	111:5
54:16,17	conducting	126:24	
W-O-U-N-D	45:4	weird 199:17	wind 8:17
54:17	147:22	welcomed	27:5 67:18
wagon 179:20	waters	123:16	120:3
	207:11		122:14
wait 7:11		west 32:4	174:16
68:2,4	ways 47:17,		201:18
waiting	18 55:23	68:13,21	window
183:3	90:1	75:8,23	187:20,21
waived 6:6	119:18,19		Winget 114:8
	143:25	167:15	_
wake 17:18	184:4	west/northwest	wires 22:13
		75:7	30:24

TIMOTHY L. HARRINGTON, ET AL. vs S.R. GRIFFIN CONSTRUCTION, INC. Michael R. Hughes on 04/25/2024 Index: WISSC-CV-22-23..year

Michael R. Hughes on 04	4/25/202 4	Index	x: WISSC-CV-22-23year
140:20,22	23,24	92:6	wrap 188:16
WISSC-CV-22-23	106:2,4	127:20	wrapping
11:5	word 22:5	181:16	64:19
	45:14	188:17	
wondering	49:12,22	206:5	wraps 73:5
29:4 97:19		world 93:11	write 120:24
123:18	70:13 73:4		written
197:11	87:20		70.12
wood 33:12	146:10,11	worries 84:2	115:12
54:14,16,	186:15	108:16	172:3,13
20 55:12		140:11	200:21
57:16	words 18:13,	159:10	201:3,5
61:12	15 44:20	worry 114:4	201:3,3
88:10	77:9	worse 111:17	
119:5	129:20		
122:13	148:3	worth 186:18	_
132:7	157:24	204:4,7	73:16
134:3,4,7	work 20:8	wound 51:20	77:22
143:22	22:20	52:21	180:19,20
153:17	46:11	54:14,16,	wrote 98:2
161:3	48:25	20 55:1,12	
162:22	62:21	57:16	Y
163:5,12	78:18	61:12	
168:9	115:9	118:17	Yarmouth
169:9,11,	142:12	119:5	80:4 88:25
12 170:20	182:16	132:7	122:11
196:25	204:14,24	135:25	137:5
197:2,13	205:5,7	142:1,7,19	174:6
woodier	worked	143:12,22	
106:5	206:11	150:3,25	year 8:20
		153:11,17	25:19 26:3
	working 20:2	161:15	39:19 55:3
65:13	30:17	169:11	61:18
67:14	80:1,13	196:25	95:25
120:4	98:10	197:2	103:14
142:10	178:5	wounds 54:5	
woody	181:7		126:23
105:10,18,	works 7:3	Wow 135:6	134:8
			_01 0

```
yield 59:1
 201:22
               young 65:24
year-old-trees
 187:3
                 175:6
                 176:3
years 42:23
 46:12,13
               younger
 48:16,17
                 186:25
 52:13
               yup 12:20
 53:6,9,18,
 20 54:19,
                     \mathbf{Z}
 22 60:18,
 21 65:18,
               zapped
 20,23 84:9
                 134:25
 86:8,11,
               Zimmerman
 13,14,16
                 114:7
 96:16
              zone 149:21
 107:21
 108:1,2
                 175:21
 112:9
 135:4,24
 136:1
 146:18
 162:16
 176:12
 177:7
 182:7
 184:22
 189:6,18
 190:2,6,19
 191:13
 192:18,21
 193:11
yellow
 11:21,25
 134:17
yellowish
 134:1
```