STATE OF NEW HAMPSHIRE 1 SITE EVALUATION COMMITTEE 2 3 September 29, 2017 - 9:07 a.m. 4 DAY 42 49 Donovan Street MORNING Session ONLY 5 Concord, New Hampshire {Electronically filed with SEC on 10-16-17} 6 7 IN RE: SEC DOCKET NO. 2015-06 8 Joint Application of Northern Pass Transmission, LLC, and 9 Public Service Company of New Hampshire d/b/a Eversource Energy for a Certificate 10 of Site and Facility. 11 (Hearing on the merits) 12 PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE: Chrmn. Martin P. Honigberg Public Utilities Comm. 13 (Presiding as Presiding Officer) 14 Cmsr. Kathryn M. Bailey Public Utilities Comm. 15 Dir. Craig Wright, Designee Dept. of Environ. Serv. Christopher Way, Designee Dept. of Resources & 16 Economic Development William Oldenburg, Designee Dept. of Transportation 17 Patricia Weathersby Public Member Rachel Dandeneau Public Member 18 19 ALSO PRESENT FOR THE SEC: Michael J. Iacopino, Esq., Counsel to the SEC (Brennan, Caron, Lenehan & Iacopino) 20 21 Pamela G. Monroe, SEC Administrator 22 (No Appearances Taken) 23 COURT REPORTER: Susan J. Robidas, NH LCR No. 44 24

 $\{\text{SEC 2015-06}\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

INDEX NORTHERN PASS CONSTRUCTION WITNESS PANEL: Samuel Johnson Kenneth Bowes Nathan Scott Lynn (Farrington) Frazier John Kayser EXAMINATION PAGE Direct Examination by Mr. Needleman Cross-examination by Mr. Pappas Cross-examination by Ms. Manzelli 

 $\{\text{SEC 2015-06}\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1		INDE	X (CONT'D)		
2	EXHIBI	S DESC	CRIPTION	]	PAGE
3					
4	APP 220	) 8/11/17 Le	etter from N	HDOT	8
5	APP 136	5 Utility Ad	ccommodation	Manual	12
6	CFP 490	NHDOT EXC	eption Reque	2+	46
7			Applicants		10
8	CFP 491	NHDOT EXC	eption Reque	st List	47
9	APP 183				51
10	CFP 497			1	62
11		(Rev 2)	Request No.	Ŧ	02
12	CFP 500	Exception (Rev 3)	Request No.	4	63
13	CFP 555		Request No.	104	67
14		_	-		-
15	CFP 496	• •	etter from N tion Request:		77
16	CFP 521		Request No.	39	77
17		(Rev 1)			
18	CFP 522	Exception (Rev 1)	Request No.	40	81
19	CFP 569	Exception	Request No.	146	84
20	CFP 570	Exception	Request No.	147	85
21	CFP 573	Exception	Request No.	151	86
22	CFP 574	Exception	Request No.	153	87
23	CFP 580	Exception	Request No.	171	89
24	CFP 509	Exception	Request No.	13	92
					[00 20 1

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

INDEX (CONT'D) EXHIBITS DESCRIPTION PAGE CFP 493 8/11/17 Letter from NHDOT CFP 494 NHDOT Highway Design Conference Report SPNF 260 Cost estimates {SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

PROCEEDINGS 1 2 CHAIRMAN HONIGBERG: A11 right. Good morning, everyone. Welcome to 3 Day 42. Welcome back to the Applicant's 4 5 construction panel. You all are still under oath, so we won't go through that again. 6 7 Mr. Needleman, I understand 8 you have a brief direct examination of the 9 panel to get this cued up? MR. NEEDLEMAN: I do. 10 Thank 11 you. I'll try to move through these topics 12 as quickly as we can. DIRECT EXAMINATION 13 BY MR. NEEDLEMAN: 14 15 You all completed testimony on June 2nd, ο. 16 2017, and you've been recalled pursuant to 17 the Chair's September 19, 2017 order. The Committee wants you to focus on an assessment 18 of whether sufficient information has been 19 20 provided regarding the exception requests to 21 DOT, with a particular focus on, quote, 22 "progress of DOT's review process." In 23 addition, you're being asked to focus on, quote, "new evidence related to potential 24 {SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		inaccuracies in the underground construction
2		plans."
3		Mr. Johnson and Mr. Bowes, you both have
4		primary responsibilities with respect to
5		these issues. Are you prepared to speak to
6		those topics?
7	A.	(Bowes) Yes, I am.
8	A.	(Johnson) Yes, I am.
9	Q.	And have you both reviewed the Chair's
10		September 19th order?
11	A.	(Bowes) Yes, I have.
12	Q.	Starting with Mr. Johnson, can you describe
13		what role you have played in dealing with
14		those issues since you last testified?
15	A.	(Johnson) Sure. So my responsibility in
16		regards to the DOT, really all aspects of the
17		DOT, is I am managing the process of the
18		design, the exception requests, and the
19		survey that accompanies the design on behalf
20		of the owner.
21	Q.	And Mr. Bowes, same question to you.
22	A.	(Bowes) I have an executive-level role to
23		meet with the DOT. And we've had one such
24		meeting since I last testified; it was to
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		introduce our construction contractor and
2		review the means and methods with the entire
3		DOT team, including the commissioner, and
4		establish a relationship and contact
5		information with the commissioner if any
6		issues are escalated to our level.
7	Q.	I want to start with the, quote, "new
8		evidence related to potential inaccuracies in
9		the underground construction plans." What is
10		your understanding of the specific topics
11		that need to be addressed here to address the
12		Committee's concerns?
13	A.	(Johnson) So there are two sort of focuses,
14		if you will, first being the background
15		survey itself. So that would be the
16		right-of-way boundaries and how those
17		boundaries were established. In the letter
18		that we received from the DOT, they discussed
19		the use of the word "approximate," and they
20		were looking for more foundational evidence
21		to move off of the approximate right-of-way
22		boundary lines.
23		The second focus is really the physical
24		types of survey. So there were some
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		instances where, for instance, a drainage
2		feature was labeled as a corrugated metal
3		pipe, and when we went out in the field, it
4		was actually a concrete box culvert. There
5		are certain instances where there were
6		utilities that were given to us by third
7		parties. We incorporated them into the
8		drawings, but it turns out in the field that
9		those utilities were on the other side of the
10		street. So the as-builts weren't provided to
11		us, or the incorrect information was put in.
12		There were other instances where
13		monuments or other street signs or things of
14		relative significance were missed in the
15		survey which was not picked up because the
16		surveyors didn't think that would have an
17		impact on the actual design of the
18		underground alignment. So we have okay.
19	Q.	I want to bring up Applicant's Exhibit 220 is
20		which is the DOT August 11, 2017 letter. Is
21		this the letter, Mr. Johnson, where DOT
22		identified some of those concerns?
23	A.	(Johnson) Yes, it is.
24	Q.	And this pertained to the survey report, but

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1		it didn't pertain to some of those other
2		issues; is that correct?
3	A.	(Johnson) That is correct.
4	Q.	And since the time that this letter was
5		issued, have you had any conversations with
6		DOT about it?
7	A.	(Johnson) We have. We've had several
8		conversations with the DOT about it.
9		Effectively, we've worked with the
10		Right-of-Way Bureau to establish a protocol
11		that we would go out into the field that
12		would, in their estimation and the group's
13		estimation together, would meet Condition
14		No. 4 of the original conditions that the DOT
15		put forth.
16		We had a meeting specifically on
17		September 5th with our surveyors meeting with
18		the right-of-way bureau where they put this
19		all forth. On our regular monthly meeting on
20		September 19th, we presented this formally to
21		the larger group, and we talked through the
22		approval process. They accepted this
23		verbally but are going to present it to their
24		front office, I believe on Monday of next
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1 week.

2 Q. So what is the approach going forward now to deal with the issues that DOT has raised? 3 (Johnson) So, again, we're going to go back 4 Α. to the two tracks, if you will. The first 5 track is the boundary right-of-way. 6 So what we've done is gone back and re-looked at the 7 archives and historical things to make sure 8 we've got all of the appropriate 9 documentation. We have worked with the DOT 10 11 to get the commissioner's return of layouts which prescribe, you know, metes and bounds 12 of a lot of the roads that we're on. 13 And then thirdly, we've identified areas where 14 15 there are just -- there isn't enough information either by the commissioner's 16 17 return or historic layouts, where we're going to have to establish the right-of-way through 18 19 prescriptive rights. 20 Is it your --0. 21 (Johnson) Sorry. The second track of that Α. 22 is, again, on the physical side. We've sent

out another set of crews that are looking to
validate the utilities, edge of pavement,

 $\{SEC 2015-06\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1		street signs and all the other things picked
2		up originally, as well as anything that they
3		believe would be missing, so that they can
4		add, if you will, or enhance the physical
5		part of the survey.
6	Q.	Is it your understanding, based on your
7		interactions with DOT, that the path forward
8		that you just described is an acceptable
9		approach to them?
10	A.	(Johnson) It is.
11	Q.	And what's the timetable for achieving that?
12	A.	(Johnson) So the field crews are going to be
13		out across the entire 16-1/2 miles over the
14		next four to six weeks. After that, they
15		will be creating the next revision of the
16		survey report, which will include not only
17		the maps, but a narrative accompanying it,
18		basically tying in all the references that
19		they've used in creating the right-of-way, or
20		establishing what the Project believes to be
21		the right-of-way. And that will all be
22		available probably in the six- to eight-week
23		time frame.
24		Does this effort relate at all to the DOT

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		exception process?
2	Α.	(Johnson) Yes, it does. The two are
3		intertwined. Basically for the exception
4		process to really begin, you have to have
5		established the boundaries of the
6		right-of-way. And so what we'll do is take
7		the information from that survey report,
8		superimpose them onto the exception requests
9		and then submit that to the DOT.
10	Q.	The other topic that you were asked to
11		address here is the, quote, "progress of
12		DOT's review," close quote. And I wanted
13		to my understanding is there are two
14		components to that: One is the exception
15		request process, and the other is the status
16		of the underground design in relation to that
17		process. So I want to start with the
18		exception request process.
19		MR. NEEDLEMAN: And if we
20		could put up Applicant's 136, Page 23.
21	BY M	R. NEEDLEMAN:
22	Q.	This is the Utility Accommodation Manual.
23		And these are the general highway standards.
24		Are you aware of those?
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

<ul> <li>A. (Johnson) I am.</li> <li>Q. I want to call your attention to Standard</li> <li>No. 2 and ask you to generally explain that</li> <li>standard to us.</li> <li>A. (Johnson) So, basically what this says is</li> <li>when a installation is within the</li> <li>right-of-way or the DOT's right-of-way in</li> <li>a longitudinal way, it should be as near to</li> <li>the edge of the right-of-way as practicable</li> <li>to provide a safe environment and for traffic</li> <li>operations.</li> <li>Q. And keep that one in mind for a moment, and I</li> <li>want to call up Pages 40 and 41. And in</li> <li>particular, I want you to look at</li> <li>Condition 5, Page 41. And if you could</li> <li>briefly explain your understanding of that</li> <li>requirement.</li> <li>A. (Johnson) So, basically this lays out the</li> <li>exception request process. If you look at</li> <li>the last sentence, that says if you cannot be</li> <li>at the edge of the right-of-way, that the</li> <li>commissioner may grant, on a case-by-case</li> <li>basis, a design that moves you away from the</li> <li>edge of the right-of-way.</li> </ul>			
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	24		edge of the right-of-way.

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	Q.	And am I correct that both of the
2		requirements we just looked at do contemplate
3		that both of the requirements we just
4		looked at, do you contemplate that exceptions
5		can be sought?
6	Α.	(Johnson) That is correct, yes.
7		MR. NEEDLEMAN: And so can we
8		call up Page 11 of the Utility Accommodation
9		Manual?
10	BY M	IR. NEEDLEMAN:
11	Q.	And can you just briefly explain what we see
12		here?
13	A.	(Johnson) Sure. So this basically defines
14		what needs to be included in an exception
15		request, sort of the outline. So, you know,
16		it's design data, cost comparisons, traffic
17		control measures, if there's anything that's
18		pertinent, and any other information that may
19		be required by the Department themselves.
20	Q.	So it was pursuant to these sections that we
21		just looked at that the Project filed the
22		exception requests with DOT?
23	A.	(Johnson) That is correct.
24	Q.	And can you generally summarize the

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		substantive reasons why you sought particular
2		exception requests?
3	A.	(Johnson) Sure. So, for all of the
4		directional drills, we will be underneath
5		bridge abutments or underneath the roadway as
6		the track of the directional drills goes.
7		Clearly, they'll be 30 to 65 feet below the
8		road, but it still "below the road" by
9		definition. There are places where there are
10		deep utilities, if you will, that are either
11		drainage in nature or some other sort. We've
12		sought to go over the top of those drainage
13		facilities, if there was enough room, of
14		course. There are certain ones where there
15		are steep inclines and declines across the
16		edges of the road or where there's guardrails
17		that prevent us from being at the edge of the
18		right-of-way, so we petitioned to be inside
19		or in the shoulder or on the roadway in
20		certain cases.
21		MR. NEEDLEMAN: I want to call
22		up Applicant's 221.
23	BY M	R. NEEDLEMAN:
24	Q.	And can you explain to the Committee what
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		this exhibit is?
2	A.	(Johnson) Sure. So this is a summary by
3		region, if you will, that describes how many
4		exception requests we have filed and how many
5		have been approved. So there are two that
6		are general in nature, and those would be the
7		use of FTB, or flowable thermal backfill, and
8		the use of plating as a construction
9		technique to safely tie up the construction
10		zones overnight. Both of those have been
11		approved.
12		WBR3 is the region between Woodstock and
13		Bridgewater along Route 3. We filed 52
14		exception requests there, and the DOT has
15		approved 18 of them.
16		WMNF is the part of the Project that's
17		within the forest, and that's in Woodstock
18		and Easton.
19		The Rock is the part that's in Bethlehem
20		near the Rocks Estate.
21		SHEB is Sugar Hill and Easton, and that
22		includes Sugar Hill, Franconia and Easton.
23		Then North and Route 3 are the
24		Pittsburg, Clarksville and Stewartstown
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		areas.
2		You can note that the approval process
3		has stopped after the WBR3 at this moment,
4		and that's because we are updating all of the
5		survey drawings, and those will be reissued
6		or reapplied with the DOT.
7	Q.	Has any of this initial round of exception
8		requests been denied by DOT?
9	A.	(Johnson) No, they've not been flat denied.
10		All of the exception requests that have been
11		sent back to us are seeking further
12		information.
13	Q.	And in the cases where they've sent them back
14		to you and sought further information, do you
15		have any sense of how that would work and
16		whether it would lead to changes or
17		improvements in the design?
18	А.	(Johnson) Absolutely. So there are almost
19		more than half of the ones that come back to
20		us are basically the iterative process of
21		design, where the DOT has asked us to move
22		from one side of the road to the other for
23		reasons for their convenience. Or, for
24		instance, one of the examples was we had
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		designed around a catch basin, and they told
2		us that we have the right to move the catch
3		basin, which would keep us off of the
4		roadway. So it's that type of iterative
5		process that we're working through with the
6		DOT.
7	Q.	Can you provide a brief description of the
8		meetings that you've had with DOT regarding
9		the exception process?
10	A.	(Johnson) Sure. So as the Committee knows,
11		we meet monthly with the DOT, typically the
12		third Tuesday of every month. And that has
13		been ongoing for over a year and a half at
14		this point, and will continue to go.
15		Typically we will talk about the SEC process
16		itself, updating them, and then we'll get
17		into any details that either the Project
18		wants to bring forth to the DOT or the DOT
19		wants to bring forth to the Project, as far
20		as specific exception requests.
21	Q.	Who from DOT typically attends these
22		meetings?
23	A.	(Johnson) So, the Chief of Design Services,
24		Melodie Esterberg, chairs the monthly
L	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		meetings; typically, Dave Rodrigue, Director
2		of Operations, is there; Mike Servetas, who's
3		the Assistant Director of Operations; Alan
4		Hanscom, who's the District 3 Maintenance
5		Engineer, and that's the portion from
6		Bridgewater to Woodstock, is there; Philip
7		Beaulieu, who's the District 1 maintenance
8		engineer, and that's from Woodstock all the
9		way north through Coos County; Chuck Schmidt,
10		who's the Bureau of Right-of-Way
11		Administrator, attends when there are items
12		of interest regarding survey; Bob Talon, who
13		is the chief surveyor for the Right-of-Way
14		Bureau, attends when it's appropriate; and
15		then Lennart Suther, who is the utilities
16		engineer, and Matthew Powers, who is the
17		utilities coordinator, both work for Melodie
18		Esterberg. Those are typically the members.
19		Occasionally Bill Cast, who is the Assistant
20		Commissioner, attends. Again, depending on
21		people's schedules, other folks may come in
22		and out.
23	Q.	Are notes kept of those meetings?
24	Δ	(Johnson) They are

24 A. (Johnson) They are.

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	Are those publicly available?
2	Α.	(Johnson) They are. The DOT publishes them
3		typically two weeks after our meetings on
4		their web site.
5	Q.	What's your understanding of who and how DOT
6		actually makes the determinations about the
7		exception requests?
8	Α.	(Johnson) So the commissioner, as is noted in
9		the Utilities Accommodation Manual, is
10		responsible for ultimately authorizing the
11		exception requests; the ones that have been
12		approved to date have been signed by Melodie.
13	Q.	I want to move now to the next topic, which
14		is the status of the underground design in
15		relation to the DOT review process. Based on
16		what you know today, is it true that you can
17		provide clarity about actual, specific
18		locations of the underground alignment in
19		certain places?
20	A.	(Johnson) It is.
21	Q.	And is it also correct that you can provide
22		clarity about the likely location of the
23		alignment in the remainder of those places?
24	A.	(Johnson) That is correct.
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	MR. NEEDLEMAN: So I want to
2	call up Applicant's Exhibit 222.
3	BY MR. NEEDLEMAN:
4	Q. And it will probably take a few minutes for
5	folks to digest this, so we're going to leave
6	it up there for a while. But as they do, I
7	want to ask you some questions about it.
8	First of all, can you describe for the
9	Committee how this exhibit was created?
10	A. (Johnson) Sure. So, basically we took all of
11	the exception requests that have been
12	created, and that basically equals Columns 1
13	and 2. So, Column 1 would be any of the
14	exception requests where we're requesting to
15	be in the pavement. Column 2 would be the
16	directional drills where we expect to be
17	under the pavement. And then what we did is
18	we worked with our design engineers, and
19	they've produced a preliminary design
20	basically similar to the one submitted as
21	part of the original application, but more in
22	line with the preferences that DOT has, as
23	far as our discussions over the last year and
24	a half. And so we've been able to ascertain
	${SEC 2015-06}$ [Day 42 MORNING Session ONLY] ${09-29-17}$

1		that approximately 33 miles of the road of
2		the alignment will be outside of the roads
3		and have no impact to tree limits, and then
4		3.7 miles will be outside the road that
5		potentially could have impacts to tree limits
6		in scenic byways, and 0.6 miles that
7		potentially could have impacts on non-scenic
8		byways.
9	Q.	Calling your attention to the second asterisk
10		which relates to that first column, can you
11		explain that in a little bit more detail?
12	Α.	(Johnson) Sure. So, of the 7.5 miles that
13		we're noting are in the roadway,
14		approximately 3 miles have been approved by
15		the DOT, and that was the 18 that you saw
16		earlier, the 18 approved. And the remaining
17		4.5 miles are requests that have been
18		submitted. We are confident that those
19		that we can state those will remain within
20		the roadway because the exception request
21		types are similar to ones already approved.
22	Q.	So an important feature of this exhibit is
23		that in the top descriptive column for all
24		five of the columns you use the phrase "tree
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1line impact." Can you explain when you put2this together, what you meant by "tree line3impact" and how you determined whether there4would be tree line impact?5A. (Johnson) Sure. So the design itself, when6it's not in the roadway by definition, is in7the shoulder or off of the shoulder, into the8ditch line, so away from the pavement itself.9So what we did is we factored in a distance10off the shoulder that would be an offset11where there would be the 3 feet, approximate123-foot width of the trench itself, and then13we put a 5-foot work zone on the far side of14the trench. So that in all gave us15approximately 10 feet of construction work16zone. And then we compared that to the17general layout that our design engineers put18together and then cross-referenced that19against information we had regarding where20the tree line is in relation to the21We also looked at sort of the trees that23were we then went to Google Earth or24field-visited a lot of these places and			
<ul> <li>impact" and how you determined whether there</li> <li>would be tree line impact?</li> <li>A. (Johnson) Sure. So the design itself, when</li> <li>it's not in the roadway by definition, is in</li> <li>the shoulder or off of the shoulder, into the</li> <li>ditch line, so away from the pavement itself.</li> <li>So what we did is we factored in a distance</li> <li>off the shoulder that would be an offset</li> <li>where there would be the 3 feet, approximate</li> <li>3-foot width of the trench itself, and then</li> <li>we put a 5-foot work zone on the far side of</li> <li>the trench. So that in all gave us</li> <li>approximately 10 feet of construction work</li> <li>zone. And then we compared that to the</li> <li>general layout that our design engineers put</li> <li>together and then cross-referenced that</li> <li>against information we had regarding where</li> <li>the tree line is in relation to the</li> <li>alignment.</li> </ul>	1		line impact." Can you explain when you put
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we put a 5-foot work zone on the far side of the trench. So that in all gave us approximately 10 feet of construction work zone. And then we compared that to the general layout that our design engineers put together and then cross-referenced that against information we had regarding where the tree line is in relation to the alignment. We also looked at sort of the trees that were we then went to Google Earth or	11		where there would be the 3 feet, approximate
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18 together and then cross-referenced that 19 against information we had regarding where 20 the tree line is in relation to the 21 alignment. 22 We also looked at sort of the trees that 23 were we then went to Google Earth or	16		zone. And then we compared that to the
19 against information we had regarding where 20 the tree line is in relation to the 21 alignment. 22 We also looked at sort of the trees that 23 were we then went to Google Earth or	17		general layout that our design engineers put
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We also looked at sort of the trees that were we then went to Google Earth or	20		the tree line is in relation to the
23 were we then went to Google Earth or	21		alignment.
	22		We also looked at sort of the trees that
24 field-visited a lot of these places and	23		were we then went to Google Earth or
	24		field-visited a lot of these places and

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		looked at places where there were sort of
2		shrubs or low-value trees, if you will,
3		4 inches in diameter or less, and we used
4		that as sort of a basis of saying we believe
5		that we can cut those down or remove that
6		vegetation without impacting the scenic
7		quality of the roads.
8	Q.	So let me focus your attention on the triple
9		asterisks at the bottom. How did you make a
10		determination about the amount of mileage
11		along this 52-mile section that was in
12		cultural and scenic byway?
13	Α.	(Johnson) So the DOT publishes a map that
14		shows all the scenic byways, and we
15		superimposed that onto our routes and noted
16		that 43.8 miles of alignments between
17		Bridgewater and Bethlehem are on designated
18		cultural and scenic byways.
19	Q.	So I want to focus on that for a minute in
20		relation to Column 4 here, which says there's
21		a potential of 3.7 miles of tree impacts in
22		scenic byway. Doing the math, that 3.7 miles
23		in relation to the 43.8 miles of scenic byway
24		is about 8-1/2 percent; is that right?
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{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Α.	(Johnson) That's correct.
2	Q.	So, conversely, are you saying that you're
3		confident that, with respect to $91-1/2$
4		percent to the scenic byway, you would not
5		have tree impacts?
6	Α.	(Johnson) That is correct.
7	Q.	And focusing on those 3.7 miles, what is your
8		level of confidence that you will be able to
9		avoid or minimize impacts to those 3.7 miles?
10	A.	(Johnson) So the DOT does have an exception
11		process specific to scenic byways, and we
12		believe that we can petition the DOT with
13		exception requests similar to the other types
14		of requests we put forward to avoid impacts
15		to these areas as much as possible.
16		MR. NEEDLEMAN: So I want to
17		go back to Applicant's Exhibit 136 and pull
18		up Page 22 of the Utility Accommodation
19		Manual.
20	BY M	R. NEEDLEMAN:
21	Q.	Was this the section that you were just
22		referring to?
23	Α.	(Johnson) It is, yes.
24	Q.	And in the top part, this section focuses in
	[ and	

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		the second line on scenic byways, but also on
2		recreation areas, historic sites, public
3		parks and landscaped areas; is that correct?
4	Α.	(Johnson) That is correct.
5	Q.	And have you discussed this part of the
6		Utility Accommodation Manual with DOT in
7		relation to the specific concerns that we've
8		just talked about here?
9	Α.	(Johnson) We have.
10	Q.	Can you describe those discussions?
11	Α.	(Johnson) Yeah. The DOT recognized that
12		scenic byways have a particular status, if
13		you will, and are understanding that because
14		of that status the impacts to the aesthetic
15		qualities can be a reason for exception
16		requests. They did note, also, that they
17		themselves have to request exception requests
18		when they're doing their own projects for
19		certain aspects specific to scenic byways.
20	Q.	Is it your expectation that this section of
21		the Utility Accommodation Manual would be the
22		basis to help ensure that the design would
23		not have adverse impacts on the scenic byway?
24	Α.	(Johnson) It is. This is the site we would
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		reference.
2	Q.	So what I want to do now is switch to the
3		ELMO. And the last piece here that I would
4		ask you to try to fill in is explaining how
5		it is that with these various sections where
6		you don't yet with certainty know the
7		alignment you still believe that you're
8		confident that you can avoid these impacts.
9	A.	(Johnson) Sure. Can I come up?
10		MR. NEEDLEMAN: We're going to
11		use a chalk, Mr. Chair, to have Mr. Johnson
12		explain that particular aspect.
13		Dawn, can you switch over to
14		ELMO, please?
15	BY M	R. NEEDLEMAN:
16	Q.	I'll give you the microphone and let you
17		explain this.
18	Α.	(Johnson) So what we're trying to represent
19		with this exhibit here is basically typical
20		exception requests and how they would be
21		addressed as we go forward. I'm just going
22		to draw in some quick features here.
23		So, "B" is going to stand for bridge,
24		and that's a bridge crossing over a river.
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

28

"C" is going to stand for cliff, or areas 1 2 where there are sharp embankments that would either be in a valley or be sharp on one side 3 and dropping off the other side. "D" is 4 going to be a hay field or an open area or 5 pasture. "E" is going to be a barn, and 6 we're going to sketch in a little barn that's 7 close to the side of the road. "F" is going 8 to be another hay field or open type of area. 9 "G" is going to be a tree area where there 10 11 are mature trees that are very close to the edge of the right-of-way. And then "H" would 12 be back to a normal type of thing, similar to 13 "A." So we've drawn these, and it looks like 14 15 they're very close together. Any one of 16 these sections could be several thousand feet 17 long, depending. So this isn't to scale by any means whatsoever. 18

So, really what we want to focus on is sort of the areas that potentially present issues as far as the alignment. So, from A, if we're along the edge of the road -- so what I'm going to sketch now is the proposed alignment and how we can be assured, for the

 $\{SEC 2015-06\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	most part, that we aren't going to impact
2	trees or other features.
3	So as we get to a bridge, this would be
4	an HDD. And this would be an exception
5	request that's already been filed, where we
6	would basically go, you know, deep down, but
7	again, underneath the roadway.
8	When we get to a cliff area, this is
9	another exception request that we filed and
10	the DOT has granted in certain areas where
11	they would allow us to be in the pavement
12	just because there's no room on either side
13	of the road.
14	When we get to a hay field or an open
15	area, again, the Project will move the
16	alignment off the roadway. And again, that's
17	that 10 foot work area I was just discussing.
18	So that's, again, not to scale.
19	When we get to a barn, there may be an
20	opportunity where, again, the DOT's approved
21	a couple of these already where we cross
22	the road from an alignment perspective to
23	avoid an obstruction and then cross back at
24	some certain distance. Again, that could be
	{SEC 2015-06} [Day 42 MORNING Session ONLY] $\{09-29-17\}$

several thousands of feet. 1 2 When we get again to an open area or a hay field, for example, and we go back off 3 the right-of-way. 4 5 And then this is the tree, the mature tree area we just discussed. Where the 6 7 potential is for adverse impacts on a scenic 8 byway, we would petition the DOT to again go 9 back into the roadway to avoid impacting those trees. 10 11 Q. So, before you go back, one question about this. On this exhibit, as things stand 12 today, you can say that with respect to Area 13 14 B, Area C, Area D and Area F, that you know 15 that those are likely alignments; is that 16 correct. 17 Α. (Johnson) That is correct. 18 And with respect --**Q**. 19 CHAIRMAN HONIGBERG: The 20 answer was "that is correct" for those in the 21 room. 22 BY MR. NEEDLEMAN: 23 And then with respect to areas like E and G, 0. you're saying you don't know today that 24 {SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		that's what the alignment is. But based on
2		these features and based on the Utility
3		Accommodation Manual, and your interactions
4		with DOT, you believe that that's going to be
5		the alignment. Can you explain that further?
6	Α.	(Johnson) That is correct. Effectively, by
7		doing these exception requests, and based on
8		the ones that have been approved to date, we
9		think we have, with a high probability, an
10		ability to determine where the alignment is
11		going to be.
12	Q.	All right. So, Mr. Johnson, I'm going to ask
13		you to go back up there.
14		MR. NEEDLEMAN: We will scan
15		and circulate this as soon as we're done.
16	BY M	R. NEEDLEMAN:
17	Q.	So what is your sense then of
18		MR. IACOPINO: Mr. Needleman,
19		did you want to give that chalk a number?
20		MR. NEEDLEMAN: I do. I
21		thought I said it was 223. But if not,
22		that's what it will be.
23	BY M	R. NEEDLEMAN:
24	Q.	So, based on this iterative process that you
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		just described with DOT, can you give us any
2		sort of specifics about how this process has
3		already resulted in what you would consider
4		to be design improvements?
5	A.	(Johnson) Yes. I guess from the iterative
6		process with the DOT, when they've asked us
7		to move things, not only is it for better
8		operations perspective from DOT, but also in
9		certain instances it's enabled us to, where
10		they've approved going over the top of deep
11		utilities, that's a much faster construction
12		process. So impacts to the general public
13		will be less, and we'll be able to get
14		through work zones or specific work areas
15		much quicker.
16	A.	(Bowes) So I'd like to add that I think there
17		was, from our meeting with the commissioner
18		and staff in June, there were key items that
19		the DOT is now comfortable with that they had
20		concerns of prior to that meeting. And I
21		think there's several of those that have been
22		part of exception requests and several of
23		those have been part of how they'll evaluate
24		exception requests in the future, the first
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

being use of plating. We got the DOT 1 2 comfortable with plating, which they typically do not allow, and that's to create 3 a moving work zone 1500 feet in the more 4 rural areas and a compressed work zone for 5 the urban constrained areas of 300 feet. 6 So we proposed to them to have special crews 7 8 that would work in a very constrained 9 footprint to go through downtown sections of the Project. 10 11 The second item was getting them 12 comfortable with why we should be on top of other utilities, not below them. And as Mr. 13 Johnson said, that is good for many reasons. 14 15 First of all, it will create a faster construction process. Those also tend to be 16 17 in areas where we may have a higher concentration to business customers. 18 So 19 we'll have less impact in those areas because 20 we're going through the process faster, much 21 less issues with the depth of trench there as 22 well so that shoring will be avoided. So it 23 will be a much faster construction process. One of the other things we talked about, 24

 $\{SEC 2015-06\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	actually came from our construction
2	contractor, is why don't you use temporary
3	chimneys on the splice pits. That will
4	avoid, you know, removing the cover of the
5	splice pit once that work has been done.
6	We'll still pave over them for seasonal
7	restrictions, and ultimately they would be
8	removed. But in the interim process, using a
9	chimney that would allow us to do the
10	splicing, as well as the cable pulling,
11	without impacting excavation in a large
12	manner again. Again, this iterative process
13	has provided, you know, some solutions that
14	we weren't thinking of originally.
15	And the last item Mr. Johnson also
16	touched on was the use of the fluidized
17	thermal backfill. There are some
18	restrictions on that that the DOT imposed.
19	But we really were able to convince them that
20	the thermal characteristics of the cable, as
21	well as the construction speed and protection
22	of the cable, would be enhanced by using that
23	technique.
24	So those are four key areas; three of

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		them, in essence, were part of exception
2		requests, or the general ones that Mr.
3		Johnson talked about. But this will really
4		lessen the impact on specific customers along
5		the route because the construction will
6		progress at a much faster rate.
7		MR. NEEDLEMAN: Dawn, can you
8		bring back up Exhibit 222?
9	BY M	R. NEEDLEMAN:
10	Q.	So I want to focus on the fifth column here
11		for a moment. These are off-pavement impacts
12		to trees that are not in scenic byways.
13		Well, can you speak to this in light of the
14		DOT exception requests process, which I think
15		also covered things like landscaped areas and
16		so forth? What is your anticipation about
17		how you'll deal with this column?
18	A.	(Johnson) So we would work with the DOT in
19		the exact same way we would with the scenic
20		byway type of thing to assess the aesthetic
21		impacts of any trees that we may be
22		potentially impacting and seek an exception
23		request as well for these areas.
24	Q.	So when will the updated design drawings be
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] $\{09-29-17\}$

1		available?
2	Α.	(Johnson) So as I mentioned earlier, the
3		first step is to get the right-of-way
4		boundary survey complete. The second step
5		would then be to get the exception requests
6		processed and approved by the DOT, and then
7		the design process would begin in earnest.
8		At that point we're expecting to be providing
9		the DOT with design drawings, most likely in
10		the February time frame of 2018. And those
11		would be issued for construction for their
12		review.
13	Q.	When you were describing the off-pavement
14		construction process a few minutes ago, you
15		were describing a zone 10 feet wide from the
16		edge of pavement out where the trench would
17		be. And you've explained how it is through
18		the exception process that you hope to avoid
19		impacts to trees.
20		My question is: Are there any
21		construction methods that you think you might
22		be able to employ that could also help to
23		avoid the sorts of impacts that are described
24		in Column 4 and 5?
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Α.	(Johnson) Sure. I'd just like to clarify
2		your question to begin with. The 10 feet is
3		actually from the edge of the shoulder, not
4		the edge of the pavement. So there is an
5		additional piece of room there.
6	Q.	Okay.
7	A.	(Johnson) But yes, there are construction
8		techniques as we go through the process. The
9		typical trench construction will have an
10		excavator straddling the actual trench with
11		its tracks on either side, and that's why you
12		need that extra 5 feet on the far side from a
13		work zone perspective. There are cases where
14		you can have the excavator located on the
15		roadside and be digging sort of crossways
16		where you wouldn't have to have any further
17		impacts beyond, say, a foot more than where
18		the trench is itself. So it's a way to
19		narrow the work zone, if you will, from that
20		10 feet to somewhere in the 5- to 6-foot
21		range.
22	Q.	Focusing on Column 4 of Exhibit 222, where
23		the total impacts were projected to be as
24		much as 3.7, if you were to employ that
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		construction method that you just described
2		in those areas, have you done any
3		calculations to determine how much it would
4		reduce those impacts?
5	A.	(Johnson) We have, yes.
6	Q.	Can you describe that?
7	A.	(Johnson) Yeah, we believe that we can get
8		the impact down to just less than a mile,
9		about 0.9 miles.
10	Q.	And that's completely independent of the
11		exception process?
12	A.	(Johnson) That's correct.
13	Q.	Okay. Just a couple more questions.
14		Speaking generally about the iterative
15		nature of the design and efforts to
16		continually improve the design and minimize
17		impacts, one of the places that has come up
18		repeatedly during the course of this
19		proceeding is the Gale River crossing in
20		Franconia. Do you have any new information
21		for the Committee about the status of the
22		design there?
23	A.	(Johnson) Sure. So the status as proposed
24		was a microtunnel that, if you recall, would
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		have two 20-foot diameter shafts on either
2		side of the Gale River itself. The Project
3		Team has done some conceptual thinking about
4		this area and has determined that there may
5		be a solution where we can use an HDD
6		technology instead, much less invasive, as
7		far as we don't need the two shafts.
8		What would happen is they'd drill from
9		the south side towards underneath the river
10		to the north side and actually extend the
11		drill path up towards the on-ramps of I-93 on
12		the far side of the intersection, if you
13		recall. They would then pull back the
14		conduit and casings from that side and then
15		dig down where the north 20-foot diameter
16		shaft would have been, dig down there and
17		intercept the HDD as it comes up and cause it
18		to turn to the left as you go from 116 down
19		Route 18 or sorry down 18 towards Sugar
20		Hill.
21	Q.	If you could successfully move that design
22		from the conceptual phase to actually being
23		able to do it, how would that reduce impacts
24		from the current proposal?

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	Α.	(Johnson) So, both from the amount of
2		physical workspace that's required, as well
3		as the speed at which we could get through
4		the construction of the intersection, both of
5		those would be positively affected.
6	Q.	One final topic. A number of times with
7		respect to the design, the issue has come up
8		of the relationship of the underground
9		drilling to bridge abutments and bridge
10		locations. Have you had conversations with
11		DOT about that issue?
12	A.	(Johnson) We have. And we actually had input
13		from the bridge design department and talked
14		with them. We got all of the bridge abutment
15		plans from them and are now including them in
16		our drawings. Effectively, at a minimum, we
17		must be 10 feet below those. But more
18		importantly, I think that they've made it
19		quite clear that in the future, if there are
20		bridge abutments that need to be replaced
21		with bigger or different types of
22		foundations, then the Project is responsible
23		for moving its facilities out of the way.
24	Q.	If the Project could not move its facilities
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		
-		out of the way, what would the alternative
2		be?
3 2	Α.	(Johnson) There would have to be some sort of
4		economic impact analysis done, and the
5		Project would have to pay for the
6		differential of a different type of design
7		foundation.
8 9	Q.	And have you made DOT aware that you would be
9		willing to do that?
10 2	Α.	(Johnson) We have, yes.
11 9	Q.	And Mr. Bowes, would the Project be willing
12		to have that be a condition of the
13		certificate if the Committee issued a
14		certificate?
15 2	Α.	(Bowes) Yes, that is typically a condition we
16		have for similar projects in other states.
17 (	Q.	And just one last question, Mr. Johnson.
18		Once a directional drill is complete
19		under a bridge and an as-built plan is
20		available, can you describe your level of
21		confidence with respect to how the as-built
22		plan would represent the location of the
23		directional drill, the precision of the
24		location?

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) Yes. So the drilling technology
2		has advanced quite a bit over the last decade
3		or so. And whether it's through GPS or
4		another type of location, they will be able
5		to tell you within, I think less than a foot,
6		of where the actual directional drill will
7		be.
8		MR. NEEDLEMAN: Okay. Thank
9		you, Mr. Chair. I'm all set.
10		CHAIRMAN HONIGBERG: I
11		understand that Mr. Pappas is next.
12		MR. PAPPAS: Thank you, Mr.
13		Chairman.
14		CROSS-EXAMINATION
15	BY M	R. PAPPAS:
16	Q.	Good morning, gentlemen. And Mrs. Frazier,
17		congratulations.
18	A.	(Frazier) Thank you.
19	Q.	Welcome back.
20		You were shown earlier the DOT Utility
21		Accommodation Manual. And I assume all of
22		you are familiar with that. If you're not,
23		please say so. Hearing nothing, I assume
24		you're all familiar with it.
l	(and	

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		You were shown Pages 40 and 41 regarding
2		underground power lines and longitudinal
3		installation of underground power lines.
4		Would everybody agree with me that the UAM
5		requires underground power lines to be off
6		the road and as close to the edge of the
7		right-of-way as possible? Does anyone on the
8		panel disagree with that statement?
9	A.	(Johnson) As close as practicable, yes.
10	Q.	Okay. So, Mr. Scott, am I correct that you
11		prepared the initial design of the
12		underground sections?
13	А.	(Scott) Yes.
14	Q.	And that would include the .7 miles near the
15		Connecticut River under the Connecticut
16		River, the 7-1/2 miles in the far north, and
17		the 52-mile section between Bethlehem and
18		Bridgewater?
19	A.	(Scott) Correct.
20	Q.	Okay. And you were aware, I assume, of the
21		UAM's requirements at the time that you
22		designed the initial underground route; is
23		that correct?
24	A.	(Scott) Yes.
	Jerc	2015-06 [Day 42 MORNING Session ONLY] $\{09-29-17\}$

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	So the Project's initial design of the
2		underground route had the transmission line
3		going down the road, for the most part; isn't
4		that right?
5	A.	(Scott) Yes.
6	Q.	So when you designed it going down the road,
7		for the most part, you knew that that was
8		contrary to the UAM's requirements; correct?
9	A.	(Scott) Correct.
10	Q.	And at the time you initially designed the
11		underground, you didn't know the location of
12		the DOT's right-of-way along the underground
13		section; is that right?
14	Α.	(Scott) I believe we knew for some portions,
15		but not all of the
16	Q.	Would I be correct in saying that for most of
17		the portions you did not know and therefore
18		had to estimate?
19	Α.	(Johnson) That's a fair assessment, yes.
20	Q.	All right. For instance, at the time that
21		the initial underground design in the
22		Application was submitted, the Project had
23		not yet done a survey of the DOT's
24		right-of-way; correct?
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{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) I don't know.
2	Q.	You don't know?
3	Α.	(Bowes) I would say that typically the DOT's
4		right-of-way is provided to the Applicant, or
5		to the person that's wanting to locate in the
6		highway. This is an unusual circumstance, I
7		would say, where the Applicant has to
8		actually define where the right-of-way is.
9	Q.	Right. And at the time that the Application
10		was filed in October of 2015, for the most
11		part, the Project didn't know where the DOT
12		right-of-way was; correct? You've had to
13		since go out and try to locate it or find out
14		where it is? Mr. Johnson?
15	Α.	(Johnson) We have since chosen to do that,
16		yes.
17	Q.	Right. But at the time you filed the
18		Application, you didn't know where that
19		right-of-way was; correct?
20	Α.	(Johnson) For the most part, that's correct,
21		yes.
22	Q.	Now, we all know that the design of the
23		underground route has changed since the
24		Application was submitted, and we heard some
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		more about that today. And I understand that
2		until all the exceptions are ruled upon, the
3		final design will not be settled until that
4		occurs; correct?
5	Α.	(Johnson) That is correct.
6	Q.	Mr. Johnson, this morning we were shown
7		Applicant's Exhibit 221, which indicates that
8		a total of 118 requests for exceptions have
9		been filed with the DOT. Do you remember
10		that exhibit that was put up this morning?
11	Α.	(Johnson) I do, yes.
12	Q.	Yeah. Now, if you go on the DOT's web site,
13		you can see the request for exceptions;
14		correct?
15	Α.	(Johnson) That is correct.
16	Q.	And if you go on the DOT's web site, it
17		indicates that the Project has submitted more
18		than 118 requests for exceptions; correct?
19	Α.	(Johnson) That's correct.
20	Q.	In fact, I think the number goes up to 188;
21		does it not?
22	Α.	(Johnson) I don't believe it's that high, but
23		it could be.
24	Q.	Mr. Johnson, what's on the screen now is
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

		-
1		Counsel for the Public Exhibit 490. This is
2		the first page of it. Do you recognize that
3		document?
4	A.	(Johnson) I do not recognize it, but I can
5		see what this is.
6	Q.	Okay. What's on the screen now is Counsel
7		for the Public Exhibit 491. And what this
8		shows is the prior document, but it separates
9		the request for admissions into group numbers
10		and then request numbers and then by town.
11		Do you see that?
12		CHAIRMAN HONIGBERG: Just to
13		be clear, Mr. Pappas, they're requests for
14		exceptions not request for admissions; right?
15		MR. PAPPAS: Oh, correct. Old
16		habits die hard.
17		CHAIRMAN HONIGBERG: Yeah, in
18		litigator land.
19		MR. PAPPAS: This is true.
20	Α.	(Johnson) So I'm assuming this is more than
21		one page and goes through the rest of them?
22	BY M	R. PAPPAS:
23	Q.	Yes. And just so that you understand the
24		format and the Committee understands the
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			4
1		format, the Project submitted requests for	
2		exceptions in 11 groupings; correct?	
3	A.	(Johnson) That is correct.	
4	Q.	And typically, each grouping would include	
5		one town or perhaps a couple of small towns;	
6		correct.	
7	A.	(Johnson) Correct. It was based on a region	
8		or area, if you will.	
9	Q.	Okay. And, for instance, they are there	
10		were 12 exception requests in the town of	
11		Plymouth. Do you see that?	
12	Α.	(Johnson) I do.	
13	Q.	Actually, there were 13 because there were	
14		two number 11s; correct?	
15	A.	(Johnson) Correct.	
16	Q.	And then if you look at Campton, there were	
17		29 exception requests. Do you see that?	
18	A.	(Johnson) 41 minus 13.	
19	Q.	And then moving on to Thornton, which is	
20		Group 3, there were 29 exception requests in	
21		Thornton; correct?	
22	A.	(Johnson) You have 28 written there.	
23	Q.	I'm sorry, 28. Thank you.	
24		And then Woodstock was split into two	
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

1		different group requests. Do you recall
2		that?
3	A.	(Johnson) I do.
4	Q.	And this document speaks for itself, so we
5		don't need to go through this whole thing.
6		But if you go through this whole document and
7		add them up in fact, if you go the to the
8		DOT web site and look at the last exception
9		request, there are about 188 or 190 of them;
10		is that right?
11	A.	(Johnson) It's possible, yes.
12	Q.	It's in fact the case, isn't it?
13	A.	(Johnson) I haven't looked at the web site
14		recently, so I can't tell you.
15	Q.	Well, it's certainly many more than 118;
16		isn't that right?
17	A.	(Johnson) Correct. The Project has withdrawn
18		approximately 60-something of those requests
19		because of the evolution of working with the
20		DOT, and some of the requests that we had
21		prior are no longer valid or no longer need
22		to be requested because we've resolved
23		whatever that issue was.
24	Q.	When were those requests withdrawn?
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) Throughout the process with the
2		DOT.
3	Q.	Can you give me maybe a start date and end
4		date?
5	A.	(Johnson) Several months ago. So if you
6		noted when we put up our number of 118, the
7		DOT has only looked at Woodstock down to
8		Bridgewater. And effectively, we've
9		suspended, if you will, the rest of the
10		exception requests pending updating the
11		survey drawings and any other lessons
12		learned, if you will, from the exception
13		requests that have been dealt with already.
14		So the plan the Project will resubmit all
15		of the remaining exception requests.
16	Q.	And those remaining will be the remaining out
17		of the 118?
18	Α.	(Johnson) That is correct.
19	Q.	Do you have a list of the requests that have
20		been withdrawn?
21	A.	(Johnson) I do not have one here, but I'm
22		certainly able to provide one for you.
23	Q.	I'd request that you do so because it's not
24		on the DOT web site, and we don't have one.
I	SEC	2015-06} [Day 42 MORNING Session ONLY] $\{09-29-17\}$

1		CHAIRMAN HONIGBERG: Mr.
2		Needleman.
3		MR. NEEDLEMAN: We can do
4		that.
5		MR. PAPPAS: Thank you.
6	BY I	MR. PAPPAS:
7	Q.	Mr. Johnson or Mr. Bowes, do you anticipate
8		filing any additional requests for
9		exceptions?
10	A.	(Johnson) Potentially, as we discussed
11		earlier. We have not yet filed any exception
12		requests in relation to scenic byways and
13		potential impacts to trees. So, depending on
14		where we end up as far as our design is
15		concerned relating to that 3.7 miles that we
16		discussed earlier, there could be exception
17		requests filed for those.
18	A.	(Bowes) I would also anticipate there may be
19		a small number of additional requests based
20		upon updated survey information.
21	A.	(Johnson) Good point.
22	Q.	Gentlemen and Mrs. Frazier, what's in front
23		of you now is Applicant's Exhibit 183, which
24		contains a number of the DOT's responses to
L	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		various requests for exceptions. And if you
2		look at the first page, it indicates that
3		Exception Request No. 1, Revision 2, was
4		approved with conditions. Do you see that?
5	A.	(Johnson) I do.
6	Q.	And that would mean that the original
7		exception request was rejected. Revision 1
8		to Request No. 1 was rejected, and eventually
9		Revision 2 was accepted; correct?
10	A.	(Johnson) It appears that way, yes.
11	Q.	And so we see on this page two requests have
12		been approved with conditions, and nine
13		requests have been rejected and need to be
14		resubmitted to address comments; is that
15		correct?
16	A.	(Johnson) That's correct.
17	Q.	And this May 31 letter was the first response
18		from DOT let me ask it another way.
19		Was this May 31, 2017 letter the first
20		response from DOT to exception requests?
21	Α.	(Johnson) The first formal response, yes. As
22		you can see with the ones that have second
23		revisions, there was some dialogue back and
24		forth as to the merit of that particular
	{SEC	2015-06 [Day 42 MORNING Session ONLY] {09-29-17}

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

			5.
1		exception request.	
2	Q.	Okay. So, on the screen now is DOT's July 7,	
3		2017 listing of their decisions on several	
4		requests for exceptions. Do you see that?	
5	A.	(Johnson) I do.	
6	Q.	And there are a number of, or a few of them	
7		that were approved. Seven were approved, and	
8		the others were rejected; correct?	
9	A.	(Johnson) That's correct.	
10	Q.	There are a number of these letters that DOT	
11		issued that indicates whether an exception	
12		request was approved or rejected; correct?	
13	A.	(Johnson) That is correct.	
14	Q.	And would you agree with me that if I go	
15		through all the letters, it will show that 20	
16		of them were approved, which is consistent	
17		with the Applicant's exhibit we saw a moment	
18		ago? Correct?	
19	Α.	(Johnson) That is correct.	
20	Q.	It'll also show that 40 of the requests were	
21		rejected; isn't that right?	
22	A.	(Johnson) That's correct.	
23	Q.	So, to date, the DOT has reviewed and made a	
24		decision on 60 requests, 20 of which have	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

			5
1		been approved, usually with conditions, and	
2		40 of which have been rejected at this point;	
3		correct?	
4	Α.	(Johnson) With request to resubmit with	
5		further information, yes.	
6	Q.	So, Mr. Johnson, I just want to review	
7		generally the types of things that you make a	
8		request for, and then I'm going to ask you	
9		some specific questions about a few of them.	
10		All right?	
11	A.	(Johnson) Okay.	
12	Q.	So, generally, one of the areas is that the	
13		Project has determined that the line has to	
14		be in the pavement, which is called	
15		"alignment in pavement"; correct?	
16	A.	(Johnson) Correct.	
17	Q.	And that typically is where there is not	
18		enough room or some obstacle that prevents	
19		the Project from being completely off the	
20		road and out of the pavement; correct?	
21	A.	(Johnson) That is correct.	
22	Q.	Okay. The second type of request is where	
23		the Project requests that splice vaults be	
24		placed underneath the road; correct?	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17	}

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1	А.	(Johnson) Correct.	
2	Q.	And that is because in many places there just	
3		isn't enough room to put the splice vault off	
4		the pavement; correct?	
5	Α.	(Johnson) Correct.	
6	Q.	In fact, that's the case for most of the	
7		splice vaults; isn't that right?	
8	А.	(Johnson) No, I believe that's not a correct	
9		statement.	
10	Q.	How many splice vaults are there in total?	
11		Do you remember?	
12	Α.	(Johnson) Top of my head, 154.	
13	Α.	(Scott) It's in the ballpark of 150 or so. I	
14		think it was 152.	
15	Q.	Yeah. Okay. Do you recall how many of them	
16		you've requested to be under the pavement?	
17	Α.	(Johnson) I think less than 20. We can get	
18		that number for you.	
19	Q.	Thank you.	
20		The third type of request involves where	
21		there's some existing structure that you want	
22		to go underneath or you want to go over	
23		rather than underneath; correct?	
24	А.	(Johnson) Correct.	
	{ SEC	2015-06 [Day 42 MORNING Session ONLV] (09-29-17	ι

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	Q.	For instance, where there's a drainage
2		structure or a culvert, you're seeking to go
3		over that structure, not underneath it.
4	Α.	(Johnson) In certain circumstances, yes.
5	Q.	And in certain instances there are some
6		utility structures, such as sewer or water,
7		where you're seeking to go over them rather
8		than under them; correct?
9	A.	(Johnson) Correct.
10	Q.	Now, earlier, Mr. Bowes, you indicated that
11		that would speed up construction; correct?
12	Α.	(Bowes) Yes.
13	Q.	To be able to go over these.
14	Α.	(Bowes) Yes.
15	Q.	After the line is placed, if the line is
16		built and placed in service, if the line is
17		above, for instance, a utility, a water or
18		sewer utility, that will have some impact on
19		the ability to either repair or replace that
20		utility, correct, because now they have to go
21		under your transmission line to get to the
22		utility?
23	A.	(Bowes) So maybe you could be more precise in
24		the type of utility because I think it does
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		make a different.	
2	Q.	All right. Let's talk about a water utility.	
3		Let's say that they want to replace some	
4		water utilities. If your line were below the	
5		water utility, to dig from the ground surface	
6		to the water utility, they wouldn't have to	
7		deal with your line; correct?	
8	Α.	(Bowes) So, again, depends on the type of	
9		water. If it was a large main, I would say	
10		you're probably accurate to transverse or go	
11		perpendicular. If it's a water service, they	
12		could probably go above.	
13	Q.	And so if it involved a water main, it would	
14		have an impact on the water district's	
15		replacing that water main; correct? It would	
16		slow their work down; would it not?	
17	Α.	(Bowes) So I think they would have to deal	
18		with it in the design phase. The use of the	
19		fluidized thermal backfill and the concrete	
20		will provide a self-supporting structure. So	
21		I think it will usually have minimal impact	
22		on a perpendicular crossing underneath for a	
23		water main.	
24	A.	(Johnson) If I may add, as part of the	
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{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		exception approval, there are the conditions
2		as you noted where the Project must have
3		reinforced concrete for a specific span
4		length that the DOT has prescribed
5		specifically to assist in future construction
6		or repair in the areas where we're crossing
7		over a particular facility.
8	Q.	Okay. But nonetheless, both in design phase
9		and in construction phase, it would be easier
10		for the water utility if it didn't have to
11		deal with your transmission line above it;
12		correct?
13	Α.	(Bowes) Again, I'm not sure what "easier"
14		means.
15	Q.	Well, they don't have to deal with it either
16		in designing around it or excavating around
17		it or simply having to worry about it if
18		they're digging, excavating to get to their
19		water line. Wouldn't you agree with me that
20		if you had a preference and you were the
21		water utility, you'd rather not have the
22		transmission line there than have it there?
23	A.	(Bowes) I think that's generally an accurate
24		statement. However, easier, I mean, the
I	{SEC	$2015-06$ [Dav 42 MORNING Session ONLY] {09-29-17}

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1		water companies, you know, telecommunication
2		companies, they are very professional in how
3		they design projects and how they construct
4		projects. This is an issue that they would
5		deal with during design phase, as well as
6		construction. But it's something they're
7		very used to dealing with just with their own
8		facilities and, you know, other utilities.
9	Q.	Are you aware of any water utility in the
10		state of New Hampshire that has to deal with
11		a 345,000-volt transmission line that is in
12		the ground above their water lines?
13	A.	(Bowes) So, just to be clear, we're not
14		proposing that. We don't have a 345-kV
15		underground transmission line.
16	Q.	Three hundred and twenty? I stand corrected.
17	A.	(Bowes) So, to the best of my knowledge,
18		there are no underground electric
19		transmission lines that are located within
20		the state of New Hampshire.
21	Q.	Mr. Johnson, another type of request you make
22		is, as you testified earlier, if there are
23		highway crossings and bridge abutments, you
24		have to go in the road to get past the bridge
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		abutments in some places; correct?
2	A.	(Johnson) That is correct.
3	Q.	And then sort of a final category, if you
4		will, is for HDD drilling. And virtually all
5		of the HDD drillings, you're going to have
6		the drilling equipment in the road rather
7		than off the road; correct?
8	A.	(Johnson) No. That's incorrect. There are a
9		few places where we're requesting that the
10		drill area be, or the pits, if you will,
11		where the entry and exit points are, be in
12		the road. Typically, one is always off the
13		road. And because the second one has to be
14		within a 10-foot area, they might push it
15		into the road. But for the most part, we've
16		tried very hard to put both the entry and
17		exit points off of the roadway. It's because
18		there's two bores, one for each, positive and
19		negative portion of the cable.
20	Q.	There are approximately 52 HDD/microtunnel
21		locations along the underground route;
22		correct?
23	A.	(Johnson) That is correct.
24	Q.	All right. Would you agree with me that the
	Jerc	2015-06 [Day 42 MODNING Session ONLV] $\int 0.00-20-17$

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		Project has submitted 38 requests for
2		exceptions dealing with HDD drilling?
3	A.	(Johnson) I'll take your word for it. But
4		it's quite possible, yes. Again, some of
5		those could have been removed or withdrawn.
6	Q.	And for each of those 38 requests, it
7		requests some portion of the HDD drilling to
8		be in the pavement; correct?
9	Α.	(Johnson) Yes.
10	Q.	Okay.
11	Α.	(Johnson) Again, by definition, the HDD is
12		going to be in the pavement at a depth of 30
13		to 65 feet, but still underneath the
14		pavement. So every HDD will have a request
15		ultimately because of that. The question of
16		whether the Project's equipment will be in
17		the roadway is dependent on each entry and
18		exit point site.
19	Q.	Let me come back to that.
20		Each of these requests has a traffic
21		control duration component; correct?
22	A.	(Johnson) Correct.
23	Q.	And for each of these requests there's an
24		estimate for how long traffic control is
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		required to accomplish the task within the
2		request; correct?
3	А.	(Johnson) Correct.
4		MR. PAPPAS: Go to Counsel for
5		the Public 496. No, it's going 497.
6	Q.	Mr. Johnson, in front of you is Counsel for
7		the Public 497, which is Exception Request
8		No. 1, second revision. Do you see that?
9	A.	(Johnson) I do.
10	Q.	And the first part, this involves crossing
11		or, rather, alignment in pavement and
12		crossing over existing drainage structure.
13		Do you see that?
14	A.	(Johnson) I do.
15	Q.	And if you look at the first paragraph, it
16		talks about traffic control type, alternate
17		one-way. Do you see that?
18	A.	(Johnson) I do.
19	Q.	And that means there's going to be a lane
20		closed, so traffic's going to alternate going
21		in that open lane; correct?
22	Α.	(Johnson) That is correct.
23	Q.	And it says here, traffic control duration is
24		estimated to be six days for the proposed
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		installation. Do you see that?	
2	A.	(Johnson) I do.	
3	Q.	So if this request is approved, it's	
4		anticipated that while this work is done, the	
5		lane will be closed for six days; correct?	
6	A.	(Johnson) That is correct.	
7	Q.	And it goes on to say, if the requested	
8		exception is not granted, NPT expects an	
9		additional two to three weeks of work	
10		requiring traffic control. Do you see that?	
11	A.	(Johnson) I do.	
12	Q.	So what that is saying is, if this exception	
13		request is not granted, for two to three	
14		weeks the lane will be closed, or one lane	
15		will be closed in that area; correct?	
16	A.	(Johnson) That's correct.	
17	Q.	What's on the screen in front of you now is	
18		Counsel for the Public Exhibit 500. And this	
19		is a copy of Exception Request No. 4, the	
20		third revision. Do you see that?	
21	Α.	(Johnson) I do.	
22	Q.	And this also indicates traffic control	
23		alternate one-way, which would be one lane	
24		closed; correct?	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

1	Α.	(Johnson) That's correct.
2	Q.	And this statement indicates that the traffic
3		control duration is estimated to be 24 days
4		for the proposed installation. Do you see
5		that?
6	A.	(Johnson) I do.
7	Q.	So that would mean it's estimated that for 24
8		days there will be a lane closed at this
9		location while this work is being done?
10	A.	(Johnson) Yes.
11	Q.	Okay. And so for each of these exception
12		requests, there's an estimate of how long a
13		lane will be closed, traffic control
14		necessary if the work, if the exception
15		request is approved; correct?
16	А.	(Johnson) That is correct.
17	Q.	And they vary anywhere from, we saw six days,
18		and this one's 24 day days. Some of them are
19		more or less than that; correct?
20	A.	(Johnson) Correct.
21	Q.	Okay. And they also indicate that if the
22		exception request is not granted, then
23		there's a different estimate for how long a
24		lane will be closed at that location;
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		correct?	
2	A.	(Johnson) Correct. That's a requirement of	
3		the exception request process.	
4	Q.	Okay. And so if any of these exception	
5		requests are denied, it will slow	
6		construction down and will require a lane to	
7		be closed longer than if the request is	
8		granted; correct?	
9	Α.	(Johnson) Correct. Typically you're going	
10		deeper or using an alternative type of	
11		construction method which would be longer in	
12		nature.	
13	Q.	Now, earlier you testified, back in May and	
14		June, that there would be along the	
15		underground route there would be lane	
16		closures as construction proceeded down the	
17		underground route; correct?	
18	A.	(Johnson) Correct.	
19	Q.	Now, these and whether it's now 118 or	
20		some larger number, whatever the ultimate	
21		number of requests for exceptions are	
22		submitted, the time estimates for each	
23		specific request is above and beyond the	
24		general time for a lane closure along the	
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

1		underground route; is that correct?
2	A.	(Johnson) No. I would say for certain
3		specific locations that is true. But for
4		instances where the alignment is in the
5		pavement, it would be the same construction
6		time as was contemplated with the main line
7		construction methodology.
8	Q.	So, for some places it's the additional
9		lane closure is going to be beyond what was
10		contemplated, and in some places it's going
11		to be the same because the same amount of
12		work or the same area is affected;
13		correct?
14	Α.	(Johnson) From a duration perspective, yes.
15	Q.	Right.
16	Α.	(Johnson) There are no additional lane
17		closures other than the one that we're
18		proposing, still maintaining alternate
19		traffic.
20	Q.	Right. You're proposing a lane closure all
21		along the 52 miles, just going to be at
22		different locations at different times;
23		correct?
24	Α.	(Johnson) Exactly.
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{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	And it's going to depend on how many crews
2		are working and where they're working;
3		correct?
4	Α.	(Johnson) Correct.
5	Q.	But these exception requests indicate that in
6		some instances the lane closure is going to
7		have to be longer than otherwise anticipated
8		based upon the work; correct?
9	Α.	(Johnson) That is correct.
10	Q.	So, Mr. Johnson, in front of you is Counsel
11		for the exhibit Counsel for the Public's
12		Exhibit 555. Do you see that?
13	Α.	(Johnson) I do.
14	Q.	And this is the exception request for the
15		microtunnel in Franconia. Do you see that?
16	Α.	(Johnson) I do.
17	Q.	Is this still pending?
18	Α.	(Johnson) I believe it is still pending until
19		we've got a more definitive design, as we
20		discussed earlier.
21	Q.	So if you look at this, it indicates that if
22		you're going to do the microtunneling in
23		Franconia, the control duration is estimated
24		to be approximately 8 to 12 weeks. Do you
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		see that?	
2	A.	(Johnson) I do.	
3	Q.	And it goes on to say that the duct bank	
4		connections to microtunneling will take an	
5		additional three to four weeks at each end;	
6		correct?	
7	A.	(Johnson) That's correct.	
8	Q.	And there are two ends.	
9	A.	(Johnson) That's correct.	
10	Q.	So the work in Franconia at this	
11		intersection, if you're going to do the	
12		microtunneling, is certainly going to consume	
13		essentially an entire summer.	
14	A.	(Johnson) That's correct, if the construction	
15		is done in the summer.	
16	Q.	It will take anywhere from 12 to 16 weeks.	
17	A.	(Johnson) Yes.	
18	Q.	Okay.	
19	A.	(Bowes) Yeah, I would say 14 to 20 weeks if	
20		you add both ends.	
21	Q.	Okay. So if you look at the very bottom, it	
22		has microtunnel shafts within pavement. Do	
23		you see that?	
24	A.	(Johnson) I do.	
	{ SEC	2015-06 [Day 42 MORNING Session ONLY] {09-29-17	7]

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	Q.	Okay. And now it indicates that the entry
2		shaft's about 25 feet in diameter. Do you
3		see that?
4	Α.	(Johnson) I do.
5	Q.	The receiving shaft's about 20 feet in
6		diameter; is that right?
7	A.	(Johnson) Correct.
8	Q.	And the Project would need approximately
9		35 feet of level, stable, non-vegetated,
10		clear space from the edge of the pavement to
11		the edge of the right-of-way for the entry
12		<pre>shaft; correct?</pre>
13	A.	(Johnson) If that's what it says on Page 2.
14		I can't see.
15	Q.	Yeah, we can go to the next page. Look at
16		the top. It indicates about 30 feet for the
17		receiving shaft; correct?
18	A.	(Johnson) Correct.
19	Q.	And you need about 5 feet of clearance. Do
20		you see that?
21	Α.	(Johnson) I do.
22	Q.	Okay. So on the screen now is still part of
23		this exception request, and it indicates the
24		location of the entry and receiving shafts.
L	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		Do you see that?	
2	A.	(Johnson) I do.	
3	Q.	Now, if you look at this, it's got the shaft	
4		to the left of the picture in the	
5		intersection; is that right?	
6	A.	(Johnson) For all intents and purposes, yes,	
7		it's at the edge of the roadway.	
8	Q.	Yeah. And then on the right it has the other	
9		shaft just past Academy Drive; correct?	
10	A.	(Johnson) Correct.	
11	Q.	Academy Street. Do you see that?	
12	A.	(Johnson) Correct. Yes.	
13	Q.	Okay. Now on your screen is the next page of	
14		this exception request, and it is Page 14032.	
15		And it shows the work areas for the two	
16		shafts. Do you see that?	
17	A.	(Johnson) I do.	
18	Q.	Okay. Now, the work area which portion is	
19		the entry shaft?	
20	A.	(Johnson) I believe it's the area to the	
21		right.	
22	Q.	And so the receiving shaft is the area to the	
23		left, in the intersection?	
24	A.	(Johnson) Correct.	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	Q.	Okay. So the area to the right needs 35 feet
2		for the workspace; correct? That's the entry
3		shaft?
4	Α.	(Johnson) Correct.
5	Q.	Okay. And do you know, based on this
6		drawing, how much of the travel lane remains
7		outside the work area?
8	А.	(Johnson) I believe a full lane.
9	Q.	And do you know how many feet what's your
10		estimate of how many feet that is?
11	А.	(Johnson) Twelve, approximately.
12	Q.	So you think that the travel area is 24 feet
13		wide in that area?
14	А.	(Johnson) I'd have to measure. It's an
15		assumption, yes. I mean, there was a scaled
16		part of that drawing, and it looks like it's
17		close to 30 feet, but
18	Q.	Okay. So on the screen now is the next page
19		of this exception request, which is Page
20		14033. And if you look in the left-hand
21		corner, you can see the receiving shaft
22		that's just off the intersection. Do you see
23		that?
24	А.	(Johnson) I do.

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

<ol> <li>Q. And it shows where, in black, the original</li> <li>open trench was going to come down one side</li> <li>of the road and across the intersection into</li> <li>the receiving pit, and now in green is the</li> </ol>	
3 of the road and across the intersection into	
4 the receiving pit, and now in green is the	
5 proposed change; is that right?	
6 A. (Johnson) That is correct.	
7 Q. And then if you look at the right-hand side,	
8 sort of the middle of the page, right where	
9 it says NH116 Easton Road, it shows the entry	
10 shaft; correct?	
11 A. (Johnson) Yes.	
12 Q. On this drawing, the entry shaft is shown on	
13 the intersection side of Academy Street. And	
14 we saw in the prior drawing that shaft was	
15 shown on the other side of Academy Street.	
16 Do you recall that?	
17 A. (Johnson) I do.	
18 Q. Do you know why one drawing has it on one	
19 side and the other drawing has it on other	
20 side of Academy Street?	
21 A. (Johnson) It's an error.	
22 Q. Do you know which side it's supposed to be	
23 on?	
24 A. (Johnson) South side.	
$\{SEC 2015-06\}$ [Day 42 MORNING Session ONLY] $\{09-29-100\}$	17}

1	Q.	And which side is the south side? Closest to
2		the intersection or away from the
3		intersection?
4	Α.	(Johnson) More to the right. Not the one
5		you're showing here.
6	Q.	Away from the intersection.
7	A.	(Johnson) Yes.
8	Q.	Okay. So this is the drawing that's in
9		error.
10	A.	(Johnson) Correct. So I might add that the
11		complexity of this, as you noted and continue
12		to note, is one of the reasons why we're
13		re-evaluating this construction technique in
14		this area and hoping to come up with a less
15		impactful methodology.
16	Q.	What's on the screen now is the last page of
17		this exception request, Page 14035. And this
18		shows a picture of the proposed entry shaft
19		area on the top. Do you see that?
20	A.	(Johnson) I do.
21	Q.	Okay. And that then also shows sort of the
22		shoulder, the sidewalk and then the travel
23		lane. Do you see that?
24	Α.	(Johnson) I do.
	[	

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	And within that, that's the area where the
2		Project needs 35 feet in order to keep one
3		lane of traffic open?
4	Α.	(Johnson) Yes, that's what was stated in the
5		request.
6	Q.	Okay. Do you know, if you look at that
7		yellow solid line in the middle of the travel
8		lane and you go to the right of the picture,
9		how far over 35 feet is?
10	Α.	(Johnson) So I believe the yellow line is
11	Q.	I'm looking at not the yellow line drawn in
12		on the picture, but the actual yellow line on
13		the road itself.
14	Α.	(Johnson) The road markings?
15	Q.	Correct. Yes.
16	Α.	(Johnson) I don't know how far that is. I'd
17		have to measure it. So I'm assuming it's
18		12 feet plus the shoulder plus the sidewalk.
19		So, 12 I don't know.
20	Q.	You don't know.
21	Α.	(Johnson) No.
22	Q.	Okay. Do you know how far into the grass
23		area it will go?
24	Α.	(Johnson) Not without measuring.

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	Okay. If you look at the bottom picture,
2		that shows the intersection; correct?
3	A.	(Johnson) It does.
4	Q.	Do you see that real estate office on the
5		corner?
6	A.	(Johnson) I do.
7	Q.	And in that area the Project's going to need
8		30 feet, correct, for a work area?
9	A.	(Johnson) That's what was stated, yes.
10	Q.	And do you know, if you start at the center
11		line, the road markings on the road, and go
12		towards the real estate office, which is the
13		work area, how far into the grass area the
14		work area will go?
15	A.	(Johnson) Not without measuring, no.
16	Q.	But you agree with me the work area is going
17		to go into that grass area; right?
18	A.	(Johnson) Without measuring, I can't say.
19		But it's highly probable.
20	Q.	Yeah, there's not 30 feet of a travel lane,
21		the shoulder and the sidewalk, is there?
22	A.	(Johnson) Probably not, no.
23	Q.	Okay. Now, the request for exception that
24		we've gone through, that involves the
I	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			76
1		microtunneling operation; correct?	
2	A.	(Johnson) That is correct.	
3	Q.	That does not involve bringing the line	
4		across the intersection in order to connect	
5		with the microtunneling; correct?	
6	А.	(Johnson) So that was the additional three to	
7		four weeks or two to four weeks that was	
8		noted in the exception request.	
9	Q.	Okay. So it's anticipated that to bring the	
10		line across is going to be the 3- to 4-week	
11		time frame, and the 8- to 12-week is the	
12		actual microtunneling?	
13	Α.	(Johnson) That's correct.	
14	Q.	Okay.	
15		CHAIRMAN HONIGBERG: If you're	
16		going to a new topic, let's take a ten-minute	
17		break.	
18		(Recess was taken at 10:33 a.m.,	
19		and the hearing resumed at 10:46 a.m.)	
20		CHAIRMAN HONIGBERG: Mr.	
21		Pappas, you may proceed.	
22		MR. PAPPAS: Thank you, Mr.	
23		Chairman.	
24	BY M	R. PAPPAS:	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17	7}

1	Q.	Mr. Johnson and Panel Members, I want to now
2		start asking you questions about the HDD work
3		areas. On the screen in front of you is
4		Counsel for the Public's Exhibit 496. I want
5		to use Exception Request 39 as an example.
6		And as you see, Exception Request 39 was
7		rejected and resubmitted to address comments.
8		Do you see that?
9	A.	(Johnson) I do.
10	Q.	Okay. On the screen now is Counsel for the
11		Public's 521, which is Exception Request No.
12		39, first revision. Do you see that?
13	A.	(Johnson) I do.
14	Q.	Now, this involves HDD pits within the
15		pavement, as well as alignment passing under
16		the pavement; correct?
17	Α.	(Johnson) That is correct.
18	Q.	And this is in the town of Campton, on
19		Route 3?
20	Α.	(Johnson) Yes.
21	Q.	All right. Now, if you look under the
22		Technical Discussion of Justification of
23		Exception do you see that?
24	A.	(Johnson) The category? Yes.
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	Yeah. I want to draw your attention to the
2		bottom paragraph. And I don't need to read
3		it into the record, but it indicates the area
4		that is needed to do this HDD drilling
5		construction. Do you see that?
6	Α.	(Johnson) It's a description of the work
7		area, yes.
8	Q.	Right. And for instance, there are four
9		bores because there are two drills in each of
10		the HDD areas; correct?
11	Α.	Four pits; two sending, two receiving, yes.
12	Q.	And they need to be 10 feet apart up on the
13		ground?
14	Α.	(Johnson) On center, yes.
15	Q.	Yeah. And the HDD work area needs to be
16		30 feet, a minimum of 30 feet of a level,
17		clear space; correct?
18	Α.	(Johnson) I believe it says "approximately
19		30 feet," but yup.
20	Q.	And that would apply to all of the HDD drill
21		sites; correct? This is a general
22		description of all of the sites?
23	Α.	(Johnson) Yes.
24	Q.	Okay. So, for this exception request, on the
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		screen now is Page 13757 of this request for
2		an exception. Do you see that?
3	А.	(Johnson) I do.
4	Q.	And the top picture indicates where the
5		proposed HDD entry pit and work area would
6		be. Do you see that?
7	Α.	(Johnson) I do.
8	Q.	And the Project proposed putting the HDD work
9		area right in front of this building to the
10		right. Do you see that?
11	A.	(Johnson) The building with the green roof?
12	Q.	Correct.
13	A.	(Johnson) Yeah, I would say that you have
14		to it looks like that building is much
15		farther away from where the entry would be,
16		just on optics, but
17	Q.	Do you know what that building is?
18	A.	(Johnson) In this particular case, not off
19		the top of my head, no.
20	Q.	I'll represent to you, if you look further in
21		this exception request, it's a restaurant.
22	A.	(Johnson) Okay.
23	Q.	And are you aware of whether or not there is
24		a mobile home park in this area as well?
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) I am not aware, no.
2	Q.	Okay. Now, the DOT denied this exception
3		request; is that right?
4	Α.	(Johnson) They asked for it to be
5		resubmitted, yes.
6	Q.	Right. And one of the reasons they rejected
7		it is because the proposed entry work area
8		would interfere with the business in that
9		building with the green roof; correct?
10	Α.	(Johnson) I'm not I'd have to go back to
11		the request itself or the request for
12		resubmittal. But if that's what you're
13		saying, then yes.
14	Q.	Well, on the screen now is Exception Request
15		39 which indicates that the exception request
16		was rejected because the proposed entry pits
17		are located within the driveway to the
18		restaurant. Do you see that?
19	Α.	(Johnson) I do.
20	Q.	Okay. So on the screen now is the first page
21		of Counsel for the Public Exhibit 496. And I
22		want to ask you some questions about Request
23		No. 40. And that also was rejected and
24		requested to be resubmitted. Do you see
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		that?	
2	A.	(Johnson) I do.	
3	Q.	Okay. So on the screen now is Counsel for	
4		the Public Exhibit 522. Do you see that?	
5	Α.	(Johnson) I do.	
6	Q.	And this is a also a request dealing with an	
7		HDD pit within the pavement and under the	
8		<pre>pavement; correct?</pre>	
9	Α.	(Johnson) Yes.	
10	Q.	And also in the town of Campton do you see	
11		that on Route 3?	
12	Α.	(Johnson) Yes.	
13	Q.	All right. Now, if you look at the section	
14		Impacts on Page 13764, when the Project	
15		submitted this request for an exception, it	
16		stated, quote, "The design, as proposed, will	
17		not adversely affect the design,	
18		construction, stability, traffic, safety	
19		environmental commitments, maintenance or	
20		operation of US 3," close quote. Do you see	
21		that?	
22	A.	(Johnson) I do.	
23	Q.	Okay. On the screen now is Page 13765 of	
24		this exception request. On the top picture	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

1		it shows the proposed area for the HDD entry
2		pit. Do you see that?
3	A.	(Johnson) I do.
4	Q.	And the proposed HDD entry pit would be
5		the Project proposed placing it in front of
6		the gas station to the right. Do you see
7		that?
8	А.	(Johnson) At the edge of their property, yes.
9	Q.	Yeah. Well, they an HDD pit needs 30 feet
10		of a work area; correct?
11	А.	(Johnson) In width, and then backwards from
12		this. The driveway would remain open.
13	Q.	So the width would be from the solid yellow
14		line on the pavement going 30 feet towards
15		the gas station; correct?
16	А.	(Johnson) The center line of the road, yes.
17	Q.	Yes. Yeah. Okay. And I misspoke earlier.
18		In this area, are you aware of a mobile
19		home park near this gas station?
20	А.	(Johnson) I am not, no.
21	Q.	Mr. Johnson, on the screen in front of you
22		now is Page 13521 of Counsel for the Public's
23		Exhibit 496, which is a notice of the
24		decision for this Request No. 40 we're
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1 talking about. And if you see, the DOT 2 denied this request because the proposed 3 entry pits are located within the Chelsea 4 Road driveway to the gas station. Do you see 5 that? 6 A. (Johnson) I do.	
3 entry pits are located within the Chelsea 4 Road driveway to the gas station. Do you see 5 that?	
4 Road driveway to the gas station. Do you see 5 that?	
5 that?	
	1
6 A. (Johnson) I do.	
7 Q. And they also indicate that this is the only	
8 access to the mobile home park and the diesel	
9 pumps. Do you see that?	
10 A. (Johnson) I do.	
11 Q. So the Project proposed an entry pit in an	
12 area that would interfere with this gas	
13 station and interfere with the access to the	
14 mobile home park, correct, and for that	
15 reason the DOT rejected it?	
16 A. (Johnson) It seems to be. But based on the	
17 photograph, I would say that the access to	
18 the diesel pumps would have remained	
19 throughout the entire construction effort.	
20 Q. But that wasn't the opinion of DOT; correct?	
21 A. (Johnson) According to their statement, yes.	
22 Q. Okay. On the screen now is Page 13767 of	
23 Counsel for the Public's Exhibit 522. Do you	L
24 see that?	

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) I do.
2	Q.	And if you look at this, this is the drawing
3		for the entrance pit in front of the gas
4		station that we're talking about; correct?
5	Α.	(Johnson) Correct.
6	Q.	And you see Chelsea Road. Do you see that?
7		It's a little hard to see. But if you look
8		under the north
9	Α.	(Johnson) Yes.
10	Q.	Okay. And do you understand that Chelsea
11		Road is the access to the mobile home park
12		behind this gas station?
13	Α.	(Johnson) As you've identified it, yes.
14	Q.	If you look for the entry pit area, that is
15		pretty much right in front of Chelsea Road.
16		Would you agree with me?
17	Α.	(Johnson) It's right in the middle of the
18		intersection, yes.
19	Q.	Now I want to show you a few other examples
20		of HDD areas in some other towns.
21	Α.	(Johnson) Sure.
22	Q.	On the screen now is Counsel for the Public
23		569, which is Exception Request No. 146 in
24		the town of Easton/Woodstock. Do you see
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1		that?	
2	Α.	(Johnson) I do.	
3	Q.	And on the screen now is Page 14146 of	
4		Exception Request 146. That shows the	
5		proposed entry area and exit area of the HDD.	
6		Do you see that?	
7	Α.	(Johnson) I do.	
8	Q.	And if you look at the proposed entry area,	
9		you'd agree with me there's simply not	
10		30 feet off the pavement for this HDD site.	
11		Is that what the picture shows?	
12	Α.	(Johnson) So I believe this exception request	
13		is to put the pits in the road?	
14	Q.	Correct. And that's because you just don't	
15		have the room off the road; correct?	
16	Α.	(Johnson) That's correct.	
17	Q.	And if you look at the exit area, you're also	
18		requesting to put the pits in the road	
19		because there simply isn't enough room off	
20		the road; correct?	
21	Α.	(Johnson) Correct.	
22	Q.	All right. On the screen now is Counsel for	
23		the Public Exhibit 570, which is another	
24		exception request, Exception Request No. 147,	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17	'}

<ul> <li>in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And this also involves putting the HDD pits within the pavement; correct?</li> <li>A. (Johnson) Yes.</li> <li>Q. On the screen now is Page 14155 of Exception Request 147. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> <li>A. (Johnson) Correct.</li> </ul>			
<ul> <li>Q. And this also involves putting the HDD pits</li> <li>within the pavement; correct?</li> <li>A. (Johnson) Yes.</li> <li>Q. On the screen now is Page 14155 of Exception Request 147. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	1		in the town of Woodstock. Do you see that?
<ul> <li>within the pavement; correct?</li> <li>A. (Johnson) Yes.</li> <li>Q. On the screen now is Page 14155 of Exception Request 147. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	2	Α.	(Johnson) I do.
<ul> <li>A. (Johnson) Yes.</li> <li>Q. On the screen now is Page 14155 of Exception Request 147. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	3	Q.	And this also involves putting the HDD pits
<ul> <li>G. On the screen now is Page 14155 of Exception Request 147. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	4		within the pavement; correct?
<ul> <li>Request 147. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	5	Α.	(Johnson) Yes.
<ul> <li>8 A. (Johnson) I do.</li> <li>9 Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>12 A. (Johnson) That is correct.</li> <li>13 Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>17 A. (Johnson) That's correct.</li> <li>18 Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>12 A. (Johnson) I do.</li> <li>13 Q. Again, this is an HDD-related request?</li> </ul>	6	Q.	On the screen now is Page 14155 of Exception
<ul> <li>9 Q. And again this shows a picture of the area for the entry pits and the exit pits; correct?</li> <li>12 A. (Johnson) That is correct.</li> <li>13 Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>17 A. (Johnson) That's correct.</li> <li>18 Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>22 A. (Johnson) I do.</li> <li>23 Q. Again, this is an HDD-related request?</li> </ul>	7		Request 147. Do you see that?
<ul> <li>for the entry pits and the exit pits;</li> <li>correct?</li> <li>A. (Johnson) That is correct.</li> <li>Q. And these two pictures depict that the entry</li> <li>pits and the exit pits in this part of the</li> <li>route need to be in the road because there's</li> <li>simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the</li> <li>Public Exhibit 573, which is Exception</li> <li>Request 151 in the town of Woodstock. Do you</li> <li>see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	8	Α.	(Johnson) I do.
<ul> <li>11 correct?</li> <li>A. (Johnson) That is correct.</li> <li>13 Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>17 A. (Johnson) That's correct.</li> <li>18 Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>20 Again, this is an HDD-related request?</li> </ul>	9	Q.	And again this shows a picture of the area
<ul> <li>12 A. (Johnson) That is correct.</li> <li>13 Q. And these two pictures depict that the entry 14 pits and the exit pits in this part of the 15 route need to be in the road because there's 16 simply not enough room off the road; correct?</li> <li>17 A. (Johnson) That's correct.</li> <li>18 Q. Okay. On the screen now is Counsel for the 19 Public Exhibit 573, which is Exception 10 Request 151 in the town of Woodstock. Do you 11 see that?</li> <li>22 A. (Johnson) I do.</li> <li>23 Q. Again, this is an HDD-related request?</li> </ul>	10		for the entry pits and the exit pits;
<ul> <li>Q. And these two pictures depict that the entry pits and the exit pits in this part of the route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	11		correct?
14 pits and the exit pits in this part of the 15 route need to be in the road because there's 16 simply not enough room off the road; correct? 17 A. (Johnson) That's correct. 18 Q. Okay. On the screen now is Counsel for the 19 Public Exhibit 573, which is Exception 20 Request 151 in the town of Woodstock. Do you 21 see that? 22 A. (Johnson) I do. 23 Q. Again, this is an HDD-related request?	12	Α.	(Johnson) That is correct.
<ul> <li>route need to be in the road because there's simply not enough room off the road; correct?</li> <li>A. (Johnson) That's correct.</li> <li>Q. Okay. On the screen now is Counsel for the Public Exhibit 573, which is Exception Request 151 in the town of Woodstock. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. Again, this is an HDD-related request?</li> </ul>	13	Q.	And these two pictures depict that the entry
<ul> <li>16 simply not enough room off the road; correct?</li> <li>17 A. (Johnson) That's correct.</li> <li>18 Q. Okay. On the screen now is Counsel for the</li> <li>19 Public Exhibit 573, which is Exception</li> <li>20 Request 151 in the town of Woodstock. Do you</li> <li>21 see that?</li> <li>22 A. (Johnson) I do.</li> <li>23 Q. Again, this is an HDD-related request?</li> </ul>	14		pits and the exit pits in this part of the
<ul> <li>17 A. (Johnson) That's correct.</li> <li>18 Q. Okay. On the screen now is Counsel for the</li> <li>19 Public Exhibit 573, which is Exception</li> <li>20 Request 151 in the town of Woodstock. Do you</li> <li>21 see that?</li> <li>22 A. (Johnson) I do.</li> <li>23 Q. Again, this is an HDD-related request?</li> </ul>	15		route need to be in the road because there's
<ul> <li>18 Q. Okay. On the screen now is Counsel for the</li> <li>19 Public Exhibit 573, which is Exception</li> <li>20 Request 151 in the town of Woodstock. Do you</li> <li>21 see that?</li> <li>22 A. (Johnson) I do.</li> <li>23 Q. Again, this is an HDD-related request?</li> </ul>	16		simply not enough room off the road; correct?
19 Public Exhibit 573, which is Exception 20 Request 151 in the town of Woodstock. Do you 21 see that? 22 A. (Johnson) I do. 23 Q. Again, this is an HDD-related request?	17	Α.	(Johnson) That's correct.
20 Request 151 in the town of Woodstock. Do you 21 see that? 22 A. (Johnson) I do. 23 Q. Again, this is an HDD-related request?	18	Q.	Okay. On the screen now is Counsel for the
<pre>21 see that? 22 A. (Johnson) I do. 23 Q. Again, this is an HDD-related request?</pre>	19		Public Exhibit 573, which is Exception
<ul> <li>22 A. (Johnson) I do.</li> <li>23 Q. Again, this is an HDD-related request?</li> </ul>	20		Request 151 in the town of Woodstock. Do you
23 Q. Again, this is an HDD-related request?	21		see that?
	22	Α.	(Johnson) I do.
24 A. (Johnson) Correct.	23	Q.	Again, this is an HDD-related request?
	24	Α.	(Johnson) Correct.

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	On the screen now is Page 14183 of this
2		request, and it shows a picture of the
3		proposed entry pit area and exit pit area.
4		Do you see that?
5	A.	(Johnson) I do.
6	Q.	And in the entry pit area there's quite a bit
7		of ledge that requires the entry pits to be
8		in the road; correct?
9	Α.	(Johnson) Correct.
10	Q.	And the exit pit area, the guardrail is the
11		reason for the request to be in the road;
12		correct?
13	Α.	(Johnson) And the slope that goes down, yes.
14	Q.	And the slope that goes down. Thank you.
15		On the screen now is Counsel for the
16		Public exhibit 574, which is Exception
17		Request 153. Do you see that?
18	A.	(Johnson) I do.
19	Q.	Again dealing with an HDD?
20	Α.	(Johnson) Yes.
21	Q.	And if you look at Page 14192 that is on the
22		screen now, it shows the proposed entry area
23		and exit area. Do you see that?
24	Α.	(Johnson) I do.
I	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

Q.	Now, this is near Beaver Pond. Do you recall
	that?
Α.	(Johnson) Yes.
Q.	And this entry area on the top picture is in
	order to have a HDD that goes under a brook
	in that area; correct?
Α.	(Johnson) Yes.
Q.	And if you look at the bottom picture, it
	shows the parking lot to the left for Beaver
	Pond, one of the two parking lots; correct?
Α.	(Johnson) That is correct.
Q.	And if you look at what's on the screen now,
	which is Page 14194 of this request, it shows
	the exit pit, the two exit pit areas. Do you
	see that?
Α.	(Johnson) I do.
Q.	And those are just past the driveway to the
	<pre>parking lot; correct?</pre>
Α.	(Johnson) Yeah. Approximately, I don't know,
	150 feet.
Q.	Yeah. And then the work areas are right
	around where those pits are; correct?
Α.	(Johnson) And would extend off to the right,
	yes.
	А. Q. А. Q. А. Q. А. Q.

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	Yeah. And then there is an additional area,
2		like over a thousand feet where they need to
3		pull back through the drill area; correct?
4	Α.	(Johnson) When they lay the conduit out, yes.
5	Q.	And that runs along there's ledge along
6		that area; correct?
7	Α.	(Johnson) Correct. The workspace needed for
8		that is less than 5 feet.
9	Q.	Yeah, it's very long, but narrow.
10	Α.	(Johnson) Correct.
11	Q.	Okay. On the screen now is Counsel for the
12		Public 580, another HDD work area; correct?
13	A.	(Johnson) Correct.
14	Q.	On the screen is Page 14250 of this Exception
15		Request 171. On the top it shows the
16		proposed entry pit and the bottom is the
17		proposed exit pit. Do you see that?
18	Α.	(Johnson) I do.
19	Q.	And if you look at the bottom, the exit pit
20		needs to be in the road because there's a
21		house there. Do you see that?
22	Α.	(Johnson) I do.
23	Q.	Okay. Now, we've seen several examples of
24		HDD pits. Would you agree with me that, in
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		most of the locations from Franconia through
2		Easton, down into Woodstock and south, the
3		HDD pits need to be in the road because
4		either there's not enough room off the road
5		or the slope is very steep off the road, or
6		in some instances there might be a house or a
7		barn or some other structure?
8	A.	(Johnson) I can't comment on every single one
9		in those three towns, but there certainly are
10		some, as you've shown, that have
11		obstructions.
12	Q.	And because there are obstructions, you agree
13		with me, for the vast majority of the HDD
14		drilling sites, the Project has requested to
15		have the work areas, the entry pits and the
16		exit pits, in the pavement?
17	A.	(Johnson) No, I don't believe that's true. I
18		think partially, yes. But we've worked very
19		diligently to be off the road. In this
20		particular Photograph No. 1, you can see that
21		there's a utility pole. So we know that the
22		DOT right-of-way extends at a minimum out to
23		the edge of that utility pole. So there
24		potentially could be room to move the utility
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		pole towards the utility pole. I'd have
2		to see what the rejection was in this
3		particular area although, they haven't
4		rejected it at this point. They haven't
5		reviewed this one yet.
6	Q.	True. But if go back to on the screen
7		now is the first page of this request. And
8		if you look at it, it's requesting that one
9		entry pit and one exit pit must be in the
10		paved road, if you look at the first
11		paragraph, last line.
12	Α.	(Johnson) Correct. One of the two, not both,
13		yes.
14	Q.	Well, it says one entry pit and one exit pit
15		must be in the paved road.
16	Α.	(Johnson) Correct. So, one hole bore will be
17		outside of the road and one will be in.
18	Q.	Right. And as a result, there will be HDD
19		construction activity within the paved road;
20		correct?
21	Α.	(Johnson) Correct.
22	Q.	Would you agree with me that for virtually
23		all of the HDD drillings, the Project has
24		submitted a request for exceptions?
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Α.	(Johnson) I would say that every one has a
2		request for exceptions because they need to
3		be because of the alignment under the
4		roadway.
5	Q.	I'm going to ask you some questions about
6		splice vaults.
7	A.	(Johnson) Okay.
8	Q.	So on the screen now is Applicant's
9		Exhibit 183, Page 65145. And what I'm
10		interested in is Request No. 13. Do you see
11		that?
12	A.	(Johnson) I do.
13	Q.	And Request No. 13 was rejected and a request
14		for resubmittal. Do you see that?
15	A.	(Johnson) I do.
16	Q.	So on the screen now is Counsel for the
17		Public's Exhibit 509, which is a copy of
18		Exception Request No. 13 in Campton. Do you
19		see that?
20	A.	(Johnson) I do.
21	Q.	Now, this is a request to put the splice
22		enclosure in the pavement. Do you see that?
23	Α.	(Johnson) That's correct.
24	Q.	Okay. Now, if you look at this request for
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		an exception, would you agree with me that it
2		provides that there's a need to have 5 feet
3		of minimum space on all sides of a splice
4		vault?
5		(Witness reviews document.)
6	Α.	(Johnson) It says a 5-foot offset from the
7		guardrail, not necessarily on all sides.
8	Q.	Okay. On the screen now is Page 13646 of
9		this exception request. And if you look at
10		Splice Enclosure in Pavement, do you see
11		that? It says, to construct the splice
12		enclosure, a minimum 5-foot work area is
13		required on all sides. Do you see that?
14	A.	(Johnson) I do.
15	Q.	So the splice vault itself is 8 feet wide; is
16		that correct?
17	A.	(Johnson) That's correct.
18	Q.	And so there's a minimum of 18 feet
19		required the 8-foot width of the splice
20		vault plus 5 feet on each side in order to
21		install a splice vault?
22	A.	(Johnson) Approximately, yes.
23	Q.	And splice vaults themselves can't be more
24		than 2100 feet apart from the next splice
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			94
1		vault?	
2	A.	(Johnson) Approximately, again, yes.	
3	Q.	Okay. On the screen now is Page 13649 of	
4		Exhibit 509, which is Exception Request 13.	
5		And this is a drawing of the proposed	
6		exception request; correct?	
7	Α.	(Johnson) Correct.	
8	Q.	And it indicates the location of the splice	
9		vault. Do you see the square splice vault?	
10	Α.	(Johnson) I do.	
11	Q.	And would you agree with me that that splice	
12		vault is proposed to be installed directly in	
13		front of the driveway to the home on the	
14		other side of the street?	
15	Α.	(Johnson) It appears that way, yes.	
16	Q.	And because the Project proposed to install	
17		this splice vault in front of that driveway,	
18		the DOT rejected this request; correct?	
19	A.	(Johnson) I'll take your word for it. But	
20		yes.	
21	Q.	And would you let me represent to you, in	
22		addition, the DOT felt that there would be	
23		only 10 feet of travel lane if the splice	
24		vault were located in this location? Do you	
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

			95
1		recall that?	
2	Α.	(Johnson) I do not. But if you represent it,	
3		I'll take that.	
4	Q.	And would you agree with me, and Mrs.	
5		Frazier, you can chime in if you'd like, that	
6		there needs to be, particularly on Route 3,	
7		more than 10-foot for travel, for a safe	
8		travel lane?	
9	Α.	(Johnson) I'll defer to Ms. Frazier now. But	
10		I believe 10-foot is the minimum.	
11	A.	(Frazier) Ten-foot can be approved in some	
12		situations. Eleven-foot is the standard okay	
13		minimum.	
14	Q.	Thank you. On the screen now is Counsel for	
15		the Public Exhibit 509, the same Exception	
16		Request 13, the first page. Do you see that?	
17	Α.	(Johnson) I do.	
18	Q.	And under Traffic Control Duration, it's	
19		estimated that 16 days will be required to	
20		install this splice vault; correct?	
21	Α.	(Johnson) That's what it says, yes.	
22	Q.	So, during those 16 days, one lane would be	
23		closed to traffic in this area; correct?	
24	Α.	(Johnson) Correct.	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1	Q.	Okay. Now, would you agree with me that that
2		is typical for installation of splice vaults,
3		what's required to install a splice vault,
4		that the traffic duration is 16 days?
5	Α.	(Johnson) No, I believe most splice vaults
6		are five or six days.
7	Q.	So you believe that most splice vaults, you
8		can excavate the well, let me back up.
9		When you say "install," do you mean
10		including excavation, placing the vault in
11		and then backfilling?
12	Α.	(Johnson) That's correct.
13	Q.	So you believe that most splice vaults you
14		can excavate the hole and the hole needs
15		to be shored; correct? The size of these
16		holes
17	А.	(Johnson) Yes.
18	Q.	So you can excavate, you can shore, you can
19		bring in a splice vault, you can install it
20		and then backfill and move on in five days?
21	A.	(Johnson) Yes. So the shoring is a single
22		piece of shoring that gets put into the
23		trench. So there's no time really needed to
24		assemble anything. The splice vaults
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		themselves are precast concrete. So they
2		will literally arrive on a truck, and the
3		crane will pick them up and put them in and
4		then backfill around.
5	Q.	And so if you think most can be done in five
6		days, why would it take 16 days for this
7		location?
8	Α.	(Johnson) I would assume it's because of the
9		narrowness of the road and the fact there's
10		not a large work zone around. It may require
11		smaller equipment to excavate, to stay within
12		the one-lane restriction of the travel way.
13	Q.	Okay. And this is along Route 3; correct?
14	Α.	(Johnson) That's correct.
15	Q.	And would you agree with me that certainly
16		the roads in the 7-1/2-mile section Old
17		County Road, North Hill Road, Bear Rock
18		Road are narrower than Route 3
19	A.	(Johnson) Correct.
20	Q.	in this area?
21	A.	(Johnson) In those particular roads we've
22		talked about having full road closures.
23	Q.	Right. Would you agree with me that the road
24		through Easton is typically narrower than
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		Route 3?
2	A.	(Johnson) I'd say in general. This
3		particular area that you're showing happens
4		to be a very constrained area.
5	Q.	And so would you agree with me that the road
6		from Franconia through Easton to get to
7		Woodstock is typically the same width as
8		shown on this drawing or that we saw in the
9		drawing a moment ago?
10	Α.	(Johnson) Not necessarily. There are large
11		areas of Route 112 that are much wider than
12		that.
13	Q.	Which areas of Route 12 [sic] are much wider
14		than that?
15	Α.	(Johnson) Route 112, yeah.
16	Q.	Route 112. Which areas?
17	Α.	I don't know specifically here, but I've
18		driven it many times and
19	Q.	Okay. And would you agree with me that much
20		of Route 3 is also constrained, as we saw in
21		this picture a moment ago?
22	Α.	(Johnson) I would not say most of it, no.
23		There are areas that are constrained, yes,
24		but not necessarily most of it.
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Q.	There are many areas that are constrained;
2		are there not?
3	Α.	(Johnson) Sure. It's 20-something miles
4		long, so there are areas where it's going to
5		be constrained.
6	Q.	For splice vaults, these are prefabricated,
7		concrete vaults; is that correct?
8	A.	(Johnson) That's correct.
9	Q.	And how many sections would one vault make
10		up? How do you intend to install these
11		splice vaults? In one section or more than
12		one section?
13	Α.	(Johnson) So I'll defer to
14	Α.	(Scott) Ideally it would be two sections, one
15		the base and one the top.
16	Q.	So there would be one base section that would
17		be 8 feet wide, 34-foot long, and something
18		less than 7-1/2 feet tall?
19	A.	(Scott) Yeah.
20	Q.	And then the top section, do you anticipate
21		it being a similar size to the base section?
22	Α.	(Scott) Yes.
23	Q.	Okay. Do you know how much either one base
24		section or one top section weighs?
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			100
1	A.	(Scott) Not off the top of my head.	
2	Q.	Do you have an approximate weight?	
3	A.	(Scott) Not off the top of my head.	
4	Q.	Do you know the size of the crane necessary	
5		to install these sections of the splice	
6		vault?	
7	A.	(Johnson) I do not know.	
8	Q.	Do you know, Mr. Scott?	
9	A.	(Scott) Not off the top of my head.	
10	Q.	Do you know, Mr. Kayser?	
11	A.	(Kayser) No, not exactly how big.	
12	Q.	I didn't want you falling asleep over there.	
13		Do you know, Mr. Scott, or anybody on	
14		the panel, how many axles the crane truck	
15		must be?	
16	Α.	(Scott) Not off the top of my head, no.	
17	Q.	And either Mr. Johnson or Mrs. Frazier or	
18		Mr. Scott, would you agree with me that each	
19		time a splice vault is installed at that	
20		location, whether it's 5 days or 16 days or	
21		some other duration, you have to have a lane	
22		closure during that operation? Is that	
23		right?	
24	A.	(Johnson) Yes.	

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

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1	Q.	Okay. Let me ask you some questions about	
2		fluidized thermal backfill. Easier to say	
3		"FTB."	
4		Now, as I understand it, the Project	
5		requested two exceptions for FTB; is that	
6		right?	
7	A.	(Johnson) Yes.	
8	Q.	One was to use FTB to backfill the open	
9		trench instead of putting back soil; correct?	
10	Α.	(Johnson) Correct.	
11	Q.	And that exception was approved by DOT;	
12		correct?	
13	Α.	(Johnson) That's incorrect.	
14	Q.	Oh, it was not.	
15	А.	(Johnson) It was not approved.	
16	Q.	So that was rejected.	
17	А.	(Johnson) Yes. So let me the reason for	
18		rejection is that the DOT wanted to have the	
19		structural integrity or the structural box	
20		at the highway be the same integrity on the	
21		entire width once we replaced.	
22	Q.	Okay. That is for well, strike that.	
23		What was approved by the DOT?	
24	Α.	(Johnson) So the approval was the use of FTB	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

1		as a thermal fill that could go from wherever
2		the actual ducts were to the bottom of the
3		structural box. And then from the structural
4		box up, it would be the 24 inches or 36
5		inches, depending on the tier of the road,
6		basically replacing like with like, as far as
7		the existing conditions of the road.
8	Q.	Okay. So, above the duct will be gravel,
9		whichever gravel the DOT requires?
10	A.	(Johnson) Correct.
11	Q.	Okay. And so it won't be the FTB, in the
12		sense that I asked earlier about, when, for
13		instance, a water utility has to worry about
14		doing work in or below the transmission line.
15		You won't have that layer of FTB above the
16		duct; correct? You'll have natural gravel.
17	Α.	(Johnson) No, there will always be a
18		component of FTB above the ducts, the actual
19		ducts themselves.
20	Q.	As long as it's below the 36 inches or
21		24 inches?
22	A.	(Johnson) That is correct.
23	Q.	Ah, and above that you need gravel.
24	A.	(Johnson) Correct. Or whatever the road base

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1 is.

2 Q. Okay.

(Bowes) So, also as part of the exceptions 3 Α. that have been granted, we have to provide a 4 structural, a self-supporting structure for 5 any of the utilities we're going over. 6 Ι 7 believe we'll be the only utility in the 8 state of New Hampshire that does that. Okay. Would you agree it's probably because 9 Q. 10 you're the only utility in the state of New 11 Hampshire that's putting up a 320-volt line above some of these other utilities? 12 (Bowes) I think it's just in advancement of 13 Α. 14 the DOT's thinking in this area. If you're 15 going to allow structures within the roadway, 16 they should allow for future maintenance and 17 operations of the other utilities. But I was more referring to you could have water, 18 19 sewer, drainage in the roadway already, and 20 none of those utilities have this 21 requirement, nor do they have this built into 22 their designs. 23 And Mr. Johnson, am I correct that what the Q. 24 Project wanted to do was use FTB through the

 $\{\text{SEC 2015-06}\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1		entire part of the duct bank or above the
2		duct bank? Correct?
3	Α.	(Johnson) Our original request was to use FTB
4		all the way up basically to the asphalt
5		surface level, and that was what was denied.
6	Q.	As a result, instead of having the concrete
7		trucks pour the FTB, now what you're going to
8		have is concrete trucks pouring some FTB and
9		then having to bring gravel back on top of
10		that to go up to the road surface, or right
11		below the road surface.
12	A.	(Johnson) Correct.
13	Q.	And would you agree with me that as a result,
14		that will slow construction?
15	A.	(Johnson) It's a consideration, yes.
16	Α.	(Bowes) The use of plating would more than
17		offset that. And I'm not sure people
18		understood when I said the use of plating.
19		It means that the entire roadway will be open
20		once the construction period is done at
21		nighttime. So there will be no traffic
22		control on these highways once they're
23		plated.
24	Q.	But it's going to take first of all, you

{SEC 2015-06} [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

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1		need to get the gravel and bring it to the	
2		site, remove the plates and backfill;	
3		correct?	
4	Α.	(Bowes) Well, we would plate the areas that	
5		are not backfilled.	
6	Q.	Right. But eventually you're going to have	
7		to backfill.	
8	A.	(Bowes) That is clearly true. But the	
9		process would allow us to plate along this	
10		and reopen the highway without having to wait	
11		for the backfill.	
12	Q.	Understood. But in that instance, what you	
13		might have is a lane closure while the	
14		initial construction is going on. If you're	
15		allowed to plate, you could reopen that lane;	
16		correct?	
17	Α.	(Bowes) Yes.	
18	Q.	And then when you have to backfill, you have	
19		to remove the plate and close the lane again	
20		in order to backfill; correct?	
21	A.	(Bowes) Yes. The process we're planning	
22		would be rolling right along. So there would	
23		be the plating would move each day, the	
24		backfill would take place each day, and the	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

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1		paving would take place each day. So it	
2		would be a continuous process along the	
3		route.	
4	Q.	But because you now have to bring back gravel	
5		rather than using FTB throughout, that will	
6		slow construction down; will it not?	
7	Α.	(Johnson) Compared to using just FTB, yes.	
8	Q.	Yeah. Okay. Have you sourced all this	
9		gravel yet?	
10	A.	(Johnson) That's up to the contractor.	
11	Q.	Do you know whether the contractor has	
12		sourced all this gravel?	
13	Α.	(Johnson) To my knowledge, no.	
14	Q.	So now let me ask you some questions about	
15		the other topic, which is the accuracy of the	
16		plans.	
17		On the screen now in front of you is	
18		Applicant's Exhibit 183, which is the first	
19		DOT letter listing approval and rejections of	
20		exception requests. Do you see that?	
21	Α.	(Johnson) I can.	
22	Q.	Okay. So this is Page 65140 in this exhibit,	
23		and it is for the decision for Exception	
24		Request No. 7. Do you see that?	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

<ul> <li>A. (Johnson) I do.</li> <li>Q. And under the first item after it says, "This exception to the UAM is hereby rejected and must be resubmitted to address the following concerns," it states, "Existing utilities are missing in numerous locations; therefore, this request cannot be adequately reviewed."</li> <li>Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. On the screen now is Page 65141 of Applicant's Exhibit 183. And this is for Exception Request No. 9. Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. And this request was rejected, and the DOT indicated that, quote, "Existing NHDOT right-of-way is not correctly shown between Stations 2497 and 2505+50." Do you see that?</li> <li>A. (Johnson) I do.</li> <li>Q. What's on screen now is Page 65142 of Applicant's Exhibit 183. And this was also rejected because the profile shown does not correspond to the plan view; therefore, it's difficult to adequately review. Do you see</li> </ul>			
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24 that?	23		difficult to adequately review. Do you see
	24		that?

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1 (Johnson) I do. Α. 2 CHAIRMAN HONIGBERG: Mr. Pappas, is there a punchline to all these, 3 "Do you see thats"? 4 5 MR. PAPPAS: There's going to 6 be. 7 CHAIRMAN HONIGBERG: Okay. 8 How many more "Do you see thats?" do you have? 9 10 MR. PAPPAS: I'll skip to the 11 punchline. BY MR. PAPPAS: 12 Mr. Johnson, since you manage this process, 13 Q. 14 would you agree with me that I could go 15 through several more of these, and the DOT 16 rejected them and indicated that either 17 things were missing or the plans were 18 inaccurate in some respect, or otherwise they couldn't review them because there were 19 20 problems with the plans? Do you agree with 21 that? 22 (Johnson) There are some, yes. Α. 23 There were several of those; were there not? 0. 24 (Johnson) I'd have to go through each Α. {SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			TO
1		rejection. But I'll take your word if you	
2		say "several."	
3	Q.	Okay. Now, in your meetings with the DOT,	
4		they also expressed concerns in those	
5		meetings about the inaccuracy of the plans;	
6		did they not?	
7	Α.	(Johnson) Yes, they did.	
8	Q.	At one point, didn't DOT wonder whether they	
9		should continue to review the plans because	
10		they were inaccurate; correct?	
11	Α.	(Johnson) That is correct.	
12	Q.	Okay. So let me ask you some questions about	
13		the survey work that you testified about	
14		earlier this morning.	
15	Α.	(Johnson) Sure.	
16	Q.	Now, we went over this area before, so I	
17		don't need to go over it in detail.	
18		Would you agree with me that the Project	
19		hired BL Companies to do survey work, and BL	
20		Companies did some of the work and they	
21		subcontracted some of the work to Meridian?	
22		Correct?	
23	Α.	(Johnson) That is correct.	
24	Q.	And both BL Companies and Meridian used three	
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			ΤT
1		levels of accuracy or confidence for their	
2		<pre>survey work; correct?</pre>	
3	Α.	(Johnson) Correct.	
4	Q.	The first level, which was the level was	
5		determined, they didn't use that in any of	
6		their work; correct?	
7	Α.	(Johnson) That is correct. Well, I take that	
8		back. They did in very small instances.	
9	Q.	Okay. And that's the most accurate and most	
10		confident level; correct?	
11	Α.	(Johnson) Correct.	
12	Q.	The second level, which is an approximate	
13		location, they used in some areas; correct?	
14	Α.	(Johnson) Correct.	
15	Q.	And then the third, level, which is the least	
16		accurate or least confidence level, is a	
17		dashed line for essentially an estimate;	
18		correct?	
19	Α.	(Johnson) Correct.	
20	Q.	Okay. Now, DOT's conditional approval,	
21		Condition No. 4 that you saw earlier this	
22		morning, required the Project to submit a	
23		survey report; correct?	
24	Α.	(Johnson) That's correct.	
	{ SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

1	Q.	And on the screen now is the second page of
2		Counsel for the Public's Exhibit 493, which
3		is the memo from DOT that was attached to the
4		August 11, 2017 letter that you saw earlier
5		today; correct?
6	A.	(Johnson) Correct.
7	Q.	Okay. And it shows that under Paragraph 4 of
8		DOT's conditions of approval, it required a
9		survey report; correct?
10	A.	(Johnson) That's correct.
11	Q.	And the DOT determined that the survey
12		reports submitted by Meridian and BL
13		Companies did not satisfy the DOT's
14		requirement; correct?
15	A.	(Johnson) That's correct.
16	Q.	Now, this morning you indicated that more
17		surveying is being done; correct?
18	A.	(Johnson) That is correct.
19	Q.	And you indicated that one of the things
20		you're going to do is you're going to look
21		re-look at historical documents; right?
22	A.	(Johnson) Correct.
23	Q.	And you're going to look at DOT returns of
24		layout? Is that another item?
l	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) Commissioner's return of layout,
2		yes.
3	Q.	And you indicated this morning that, if
4		looking at those two items did not
5		sufficiently identify an area in order to
6		satisfy the DOT's requirement, you were going
7		to look to a prescriptive rights process. Do
8		you remember that?
9	Α.	(Johnson) I do.
10	Q.	Tell me what you meant by a "prescriptive
11		rights process."
12	Α.	(Johnson) So, prescriptive rights are
13		basically where there is no layout for a
14		particular route, historic layout, or there
15		is no commissioner's return, and basically
16		not a lot of information available in a
17		particular area. There could be individual
18		plans or private property deeds that are
19		available, but not necessarily a true layout
20		in the historic sense.
21	Q.	So you can't determine the layout by looking
22		at documents. So when you say "prescriptive
23		rights," do you mean the Project's going to
24		seek to obtain rights prescriptively from the
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

abutting landowners? 1 (Johnson) Not at all, no. Basically what it 2 Α. means is that the Project will use its survey 3 expertise to identify the areas of use and 4 occupancy. So that would be typically, 5 obviously, the lanes of the road itself; it 6 7 would be shoulders; it would be drainage 8 ditches; any kind of physical evidence that would describe the use and occupancy of the 9 road. We would then set that as our 10 11 boundary, whether or not the DOT had property outside of that, because we feel, as the 12 Project, there's just not enough information 13 14 to verify anything but that. And we would 15 petition the DOT, if we couldn't be outside 16 of the roadway, to be in the roadway in those 17 areas specifically to avoid any potential 18 conflicts. 19 Q. So when you say "use and occupancy," let me 20 give you an example. We've seen pictures 21 where there's a house or a barn 10 feet from 22 the pavement. In that instance, would that 23 tell you that the use and occupancy of that 24 area is as private property rather than DOT  $\{\text{SEC 2015-06}\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

1		right-of-way because someone has their barn
2		or house in that area?
3	Α.	(Johnson) Just because somebody has a barn in
4		an area doesn't necessarily mean that it's
5		not inside the DOT area.
6	Q.	Oh, I understand that. But when you
7	Α.	(Johnson) But we as the Project recognize
8		that as private property use and would look
9		to avoid putting any facilities there.
10	Q.	That's what I'm trying to get to. When you
11		say "use and occupancy," you're looking at
12		how the land is being used in areas where the
13		documents don't tell you where the
14		right-of-way boundary line is; correct?
15	Α.	(Johnson) That is correct.
16	Q.	So, for instance, if a private property owner
17		along the underground is using the land in
18		some way, whether there's a structure on
19		there or there's a garden on there, it's some
20		other use that would lead you to believe that
21		the use and occupancy would be private use
22		and not the DOT right-of-way; correct?
23	A.	(Johnson) In the areas where there's no other
24		information, that's correct.
	L	

<ul> <li>Q. Right. So in those areas you would have to</li> <li>be in the paved road because you can't</li> <li>establish a right-of-way boundary far enough</li> <li>off the road; correct?</li> <li>A. (Johnson) Depending where the obstruction</li> <li>was, yes.</li> <li>Q. And that's what you meant by "prescriptive</li> <li>rights." You would petition the DOT to</li> <li>recognize in these various areas where the</li> <li>documents were not sufficient, and you had to</li> <li>go out and determine the actual use in those</li> <li>areas and petition the DOT to either</li> <li>recognize the use as a road right-of-way or</li> <li>the use as private property, not a road</li> <li>right-of-way; correct?</li> <li>A. (Johnson) Correct. So it's the Project's</li> <li>interpretation of what that is. It's not the</li> <li>DOT's interpretation of what that is.</li> <li>Obviously, they have their own rights and</li> <li>their own ways of getting rights to do</li> <li>things. So this would be the Project's</li> <li>interpretation so that we would be able to</li> <li>stay within the DOT right-of-way as we</li> <li>describe it.</li> </ul>			
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11go out and determine the actual use in those12areas and petition the DOT to either13recognize the use as a road right-of-way or14the use as private property, not a road15right-of-way; correct?16A. (Johnson) Correct. So it's the Project's17interpretation of what that is. It's not the18DOT's interpretation of what that is.19Obviously, they have their own rights and20their own ways of getting rights to do21things. So this would be the Project's22interpretation so that we would be able to23stay within the DOT right-of-way as we	9		recognize in these various areas where the
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<ul> <li>recognize the use as a road right-of-way or</li> <li>the use as private property, not a road</li> <li>right-of-way; correct?</li> <li>A. (Johnson) Correct. So it's the Project's</li> <li>interpretation of what that is. It's not the</li> <li>DOT's interpretation of what that is.</li> <li>Obviously, they have their own rights and</li> <li>their own ways of getting rights to do</li> <li>things. So this would be the Project's</li> <li>interpretation so that we would be able to</li> <li>stay within the DOT right-of-way as we</li> </ul>	11		go out and determine the actual use in those
14 the use as private property, not a road 15 right-of-way; correct? 16 A. (Johnson) Correct. So it's the Project's 17 interpretation of what that is. It's not the 18 DOT's interpretation of what that is. 19 Obviously, they have their own rights and 20 their own ways of getting rights to do 21 things. So this would be the Project's 22 interpretation so that we would be able to 23 stay within the DOT right-of-way as we	12		areas and petition the DOT to either
<ul> <li>right-of-way; correct?</li> <li>A. (Johnson) Correct. So it's the Project's interpretation of what that is. It's not the DOT's interpretation of what that is.</li> <li>Obviously, they have their own rights and their own ways of getting rights to do</li> <li>things. So this would be the Project's interpretation so that we would be able to stay within the DOT right-of-way as we</li> </ul>	13		recognize the use as a road right-of-way or
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DOT's interpretation of what that is. Obviously, they have their own rights and their own ways of getting rights to do things. So this would be the Project's interpretation so that we would be able to stay within the DOT right-of-way as we	16	A.	(Johnson) Correct. So it's the Project's
19 Obviously, they have their own rights and 20 their own ways of getting rights to do 21 things. So this would be the Project's 22 interpretation so that we would be able to 23 stay within the DOT right-of-way as we	17		interpretation of what that is. It's not the
<ul> <li>their own ways of getting rights to do</li> <li>things. So this would be the Project's</li> <li>interpretation so that we would be able to</li> <li>stay within the DOT right-of-way as we</li> </ul>	18		DOT's interpretation of what that is.
21 things. So this would be the Project's 22 interpretation so that we would be able to 23 stay within the DOT right-of-way as we	19		Obviously, they have their own rights and
<ul> <li>interpretation so that we would be able to</li> <li>stay within the DOT right-of-way as we</li> </ul>	20		their own ways of getting rights to do
23 stay within the DOT right-of-way as we	21		things. So this would be the Project's
	22		interpretation so that we would be able to
24 describe it.	23		stay within the DOT right-of-way as we
	24		describe it.

1	Q.	And then the Project would petition the DOT
2		to recognize the Project's determination of
3		rights; correct?
4	A.	(Johnson) If there was not specifically
5		the determination of rights. Basically it's
6		if we had to be in the roadway for the
7		alignment, then we'd obviously have to submit
8		an exception request that would discuss the
9		aspects of the prescriptive nature of the
10		establishment of the edge of right-of-way.
11	Q.	And so you would have to then have the DOT
12		agree with you in order to set that as the
13		right-of-way boundary; correct?
14	Α.	(Johnson) Correct. So, the approval of the
15		survey report, as well as the narrative that
16		goes along with that which will explain why
17		there are no records or what records are
18		there, is the approval if and when they
19		approve that, is the approval of that
20		particular area of right-of-way.
21	Q.	And if the DOT does not agree with your
22		interpretation?
23	A.	(Johnson) I've been watching it for a while.
24	Q.	That bug was on my table a minute ago.
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1	A.	(Johnson) Can you repeat the question,	
2		please?	
3	Q.	If the DOT does not agree with your	
4		interpretation, what's the backup?	
5	A.	(Johnson) Then we'll work with the DOT to	
6		establish something that's reasonable for	
7		all.	
8	Q.	And you indicated you thought all this could	
9		be done in six to eight weeks?	
10	A.	(Johnson) For the yes. Preparing the	
11		survey report, yes.	
12	Q.	When did that six weeks to eight weeks start?	
13	Α.	(Johnson) This past Monday.	
14	Q.	Okay. And am I correct in saying that until	
15		that is done, a new survey report is	
16		submitted and there's some petitions for	
17		prescriptive rights and there's some	
18		discussion about that, all of the requests	
19		for exceptions are essentially suspended	
20		until that process works its way through?	
21	A.	(Johnson) That's correct. The DOT will not	
22		approve or deny until we've firmly	
23		established the edges of the right-of-way.	
24	Q.	And would I be correct in saying that if the	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

1		Project can't satisfy the DOT about the
2		survey and the edge of the right-of-way, the
3		Project will not have satisfied that
4		Condition No. 4?
5	Α.	(Johnson) That is correct. The DOT must
6		approve the survey report to meet the
7		conditions of survey or Condition No. 4.
8	Q.	Okay. So let me ask you a couple questions
9		about Applicant's Exhibit 222 which we saw
10		this morning. Do you have that in front of
11		you?
12	Α.	(Johnson) No, I do not.
13	Q.	The Applicant will need to put that up
14		because
15		MS. MERRIGAN: No, I have it.
16		MR. PAPPAS: Oh, you got it.
17	BY M	R. PAPPAS:
18	Q.	In front of you on the screen is Applicant's
19		Exhibit 222. Do you see it?
20	Α.	(Johnson) I do.
21	Q.	All right. So let me just ask. In the first
22		column we have "Miles in Pavement, No Tree
23		Impact." Does that include anywhere that the
24		Project's going to be in the road?
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			119
1	A.	(Johnson) Yes.	
2	Q.	So that would include all HDD sites.	
3	A.	(Johnson) No, that's the second column.	
4	Q.	Ah, okay. Other than HDD sites and	
5		microtunneling, does the first column include	
6		splice vaults?	
7	A.	(Johnson) Yes.	
8	Q.	So in order to determine where the Project is	
9		going to be totally in the road, you add the	
10		first two columns.	
11	Α.	(Johnson) Correct.	
12	Q.	So it's going to be 15 miles in the road out	
13		of the 52-mile stretch.	
14	Α.	(Johnson) That is correct.	
15	Q.	Then if you look at the third column where it	
16		says "Miles Outside Pavement, No Tree	
17		Impact," do you see that?	
18	A.	(Johnson) I do.	
19	Q.	Is that inside the right-of-way or outside	
20		the right-of-way?	
21	A.	(Johnson) Inside the DOT right-of-way.	
22	Q.	Okay. So that's only showing where there's	
23		no impact within the DOT right-of-way, I	
24		assume as you currently believe it to be.	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-3	17}

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1	А.	(Johnson) That is correct.	
2	Q.	So if this new survey work changes the	
3		right-of-way boundaries, it's going to change	
4		the calculation on these 33 miles; correct?	
5	Α.	(Johnson) Absolutely.	
6	Q.	Okay. And for any impact outside of where	
7		you currently think the right-of-way boundary	
8		is, that's not picked up in these 33 miles;	
9		correct?	
10	Α.	(Johnson) Could you repeat that?	
11	Q.	Sure. If this 33 miles is inside the	
12		right-of-way, it does not include any impact	
13		to trees that are outside where you think the	
14		right-of-way boundary is today.	
15	Α.	(Johnson) So if a tree is not in the DOT	
16		right-of-way?	
17	Q.	Correct.	
18	Α.	(Johnson) Yes.	
19	Q.	Okay.	
20	A.	(Johnson) So the Project plans on an offset	
21		from the edge of right-of-way, obviously to	
22		be sure we're maintaining. But if you're	
23		asking if we're impacting a tree that's	
24		outside the right-of-way, no.	
	<b>6</b>		_ >

			12.
1	Q.	And as I said, just as a follow-up to	
2		earlier, if that right-of-way boundary moves	
3		by your new survey plan, there could be more	
4		trees impacted; correct?	
5	Α.	(Bowes) No, less trees impacted.	
6	Q.	Let's say the right-of-way boundary gets	
7		smaller.	
8	A.	(Johnson) If the right-of-way boundary gets	
9		smaller	
10	А.	(Bowes) But then we'd apply for an exception	
11		request to be in the road.	
12	Q.	No, I understand. We're talking about trees	
13		right now, though, Mr. Bowes. And so	
14	A.	(Bowes) Right. It would affect the first	
15		column.	
16	Q.	We're talking about the third column.	
17		And Mr. Johnson, let me and Mr.	
18		Bowes, you can correct me if wrong but if	
19		the right-of-way boundary shrinks, there	
20		could be more trees impacted; right?	
21	A.	(Johnson) If the right-of-way boundary	
22		shrinks, we'll petition the DOT to be in the	
23		roadway.	
24	A.	(Bowes) There'll be less trees impacted.	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-3	17}

1	Q.	Correct. I stand corrected. It's definitely
2		time for lunch.
3		Conversely, if it goes the other way,
4		there will be potentially more trees
5		impacted.
6	Α.	(Bowes) If the right-of-way hypothetically
7		was the 500 feet in the White Mountain
8		National Forest, hypothetically, yes, you
9		could locate out 400 feet. I don't think
10		that's at all being considered, but and
11		then you would impact some trees out at 400
12		feet off the road. Again, that's very
13		hypothetical and that's not at all what's
14		planned.
15	Q.	Right. And if it moves 10 feet, it could
16		<pre>impact some trees within that 10-foot zone;</pre>
17		right?
18	A.	(Johnson) And again we'd petition that we
19		would not be impacting those trees through
20		Columns 4 and 5.
21	Q.	Okay.
22		(Pause)
23	Q.	What's on the screen now in front of you is
24		Counsel for the Public Exhibit 494, which is
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			12
1		a copy of the conference report for the	
2		April 12, 2017 conference between the Project	
3		and DOT. And Mrs. Frazier and Mr. Johnson,	
4		you attended this meeting; correct?	
5	A.	(Johnson) That is correct.	
6	Q.	And what's on the screen now is the	
7		conference report for the July 18, 2017	
8		conference. And again, Mr. Johnson and Mrs.	
9		Frazier, you attended that conference;	
10		correct?	
11	A.	(Johnson) Correct.	
12	Q.	On the screen now is the last page of that	
13		conference report, 13513. And it indicates	
14		that a draft of the Transportation Management	
15		Plan was submitted. Do you see that?	
16	A.	(Johnson) I do.	
17	Q.	What plan was submitted?	
18	A.	(Frazier) So this statement is incorrect. It	
19		was actually a copy of the form that goes to	
20		the Traffic Control Committee to present	
21		the to allow the TCC to determine the	
22		impacts and whether or not a full	
23		Transportation Management Plan is needed or	
24		just a memorandum.	
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			ΤΖ.
1	Q.	Did the DOT accept your form?	
2	A.	(Frazier) No. We took it back because it was	
3		addressed to Mr. Oldenburg, and we had to	
4		re-address it to Mr. Cota.	
5	Q.	Eventually did DOT accept your form?	
6	Α.	(Johnson) We have not submitted a revised	
7		form yet.	
8	Q.	You have not resubmitted a revised form.	
9	A.	(Johnson) That's correct.	
10	Q.	On the screen now is the conference report	
11		from the August 15, 2017 conference where,	
12		Mr. Johnson, you attended.	
13	Α.	(Johnson) That's correct.	
14	Q.	This conference report at the bottom, and you	
15		can see it's highlighted, indicates that Ms.	
16		Esterberg has prepared a draft of the Traffic	
17		Control Committee Traffic Management Plan	
18		Determination Request Memo to present NPT's	
19		Traffic Management Plan to the Department's	
20		committee. Do you see that?	
21	A.	(Johnson) I do.	
22	Q.	And she anticipates being on the agenda the	
23		third Thursday in September. Do you see	
24		that?	
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1	A.	(Johnson) I do.	
2	Q.	And they indicated someone from NPT should	
3		attend?	
4	A.	(Johnson) Unfortunately, she was unable to	
5		get onto the September agenda. I believe	
6		that we are scheduled for the October agenda.	
7	Q.	And do you anticipate submitting that form	
8		before the October meeting?	
9	Α.	(Johnson) We do.	
10	Q.	And at the October meeting you'll find out	
11		whether or not they're going to require a	
12		full Traffic Management Plan or something	
13		different?	
14	A.	(Johnson) That's correct.	
15	Q.	If they require a full Traffic Management	
16		Plan, when do you anticipate submitting that?	
17	A.	(Frazier) So we have begun work on it, and we	
18		anticipate submitting a draft in February or	
19		March of 2018. However, I don't know when	
20		the final will be, considering it's an	
21		iterative process and kind of what we're	
22		calling a "living document" as people change	
23		and circumstances change.	
24	Q.	And would I be correct in saying that, in	
L	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	L7}

1		order to finalize the Traffic Management
2		Plan, you need to have final, full
3		construction drawings in the underground
4		section so you know where the route's going
5		to go in the underground section?
6	A.	(Frazier) Yes, that's correct.
7	Q.	So you'll need some time after you receive
8		full construction drawings for the
9		underground route in order to complete the
10		Traffic Management Plan.
11	Α.	(Frazier) Correct.
12	Q.	Do you have an estimate of how much time
13		you'll need?
14	Α.	(Frazier) I would say a month or two.
15	Q.	Okay.
16		MR. PAPPAS: Thank you for
17		your patience. No other questions.
18		CHAIRMAN HONIGBERG: I think
19		we're either looking at Mr. Whitley or Ms.
20		Manzelli. But Mr. Whitley, are you ready to
21		go?
22		MR. WHITLEY: I have no
23		questions, Mr. Chair.
24		CHAIRMAN HONIGBERG: That's
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

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1	easy enough.	
2	Ms. Manzelli?	
3	MS. MANZELLI: Sure. Give me	
4	one minute, please.	
5	CHAIRMAN HONIGBERG: Sure.	
6	(Pause in proceedings)	
7	CROSS-EXAMINATION	
8	BY MS. MANZELLI:	
9	Q. All right. Good morning. My name is Amy	
10	Manzelli, and I'm representing the Society	
11	for the Protection of New Hampshire Forests.	
12	I want to ask for everybody's patience this	
13	morning. Many of my questions have been	
14	covered, and so it will just take me a little	
15	bit of time to weed through as we're going	
16	along of what has not been covered.	
17	So I want to turn first we've seen	
18	this document a couple times today. This is	
19	the letter from the Department of	
20	Transportation responding to the submission	
21	of the survey. I did note that there was two	
22	different versions that have come into the	
23	record: There's Applicant's Exhibit, I	
24	believe it's 220, and then it's also Counsel	
	${SEC 2015-06}$ [Day 42 MORNING Session ONLY] ${09-29-17}$	}

1		for the Public 493. Counsel for the Public's
2		version is the highlighted version.
3		Now, if you turn to the second page of
4		this, you'll see the memo that is enclosed
5		here. Again, we've looked at this today.
6		But I just wanted to highlight the particular
7		wording. You agree that the words used to
8		describe what is required of Northern Pass
9		is, quote, "accurate location defined by
10		ground survey"; right?
11	Α.	(Johnson) Correct.
12	Q.	Okay. And then what DOT reported back as its
13		description of what was submitted to it, they
14		said, "The majority of the right-of-way shown
15		in the plans is approximate location only";
16		right?
17	Α.	(Johnson) That's what it says, yes.
18	Q.	So where we're at here is we have this
19		project going into the eighth year of
20		development. And the DOT had what I thought
21		was a pretty clear requirement for accurate
22		locations defined by a ground survey. And as
23		of today, Northern Pass either refuses or
24		just hasn't been capable of providing, quote,
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		"accurate location defined by ground survey";
2		is that correct?
3	Α.	(Johnson) So I would say we have worked with
4		the DOT to establish what they believe
5		answers this determination. And let me just
6		read it. The approval requires "an accurate
7		location defined by ground survey."
8		We met back in February of this year
9		with the DOT Right-of-Way Bureau to establish
10		what they felt was the proper way to define
11		the right-of-way. Obviously, that led to the
12		survey report and then this particular
13		rejection stating that they want more
14		information. We have since worked with the
15		DOT to establish again what their proper
16		protocols are to develop those. And again,
17		those will now be executed in the field and
18		an additional survey report will be provided.
19	Q.	Is DOT now asking for something additional or
20		something different than it asked for in its
21		letter issuing a conditional a
22		recommendation for approval of this project?
23	Α.	(Johnson) I believe it's the interpretation
24		of the wording. We did not provide enough
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		references to plan documents. We did not tie
2		our survey back to known DOT projects and/or
3		established rights-of-way by reference. So
4		we've worked with them to establish those
5		protocols and again to do additional historic
6		research to see if there's additional
7		documents, as well as locating physical
8		monuments and iron pins in the field to help
9		further establish the right-of-way, in
10		essence, tightening up the survey report.
11	Q.	So you're working on defining with DOT what
12		it means to have accurate locations defined
13		by a ground survey.
14	A.	(Johnson) So that's been completed and will
15		be submitted to the DOT front office on
16		Monday by the Design Bureau on behalf of our
17		project. So, basically the Design Group and
18		Right-of-Way Bureau has agreed to an outline
19		of how to perform the work and then minimum
20		requirements to get there, and now the front
21		office will be approving that or denying it,
22		or asking for enhancements in a meeting next
23		Monday.
24	Q.	Correct me if I'm wrong. I thought from your

1		prior testimony this morning the "it" that
2		you were just discussing is a process by
3		which you're going to develop this accurate
4		information. It's not a new survey that's
5		going to be approved on Monday; right?
6	Α.	(Johnson) No, that's correct. It's a
7		process, yeah.
8	Q.	All right. And we've talked about that
9		process. That's a six- to eight-week process
10		for you to generate if your plan is
11		approved on Monday, it's a six- to eight-week
12		process, starting this past Monday, the 25th,
13		for you to generate that information; right?
14	Α.	(Johnson) That's correct.
15	Q.	Now, just to restate that, that's for
16		Northern Pass to generate information for the
17		DOT to then consider subsequent to receipt of
18		the information from Northern Pass; right?
19	A.	(Johnson) Correct.
20	Q.	Do you have any expectation of when you would
21		hear back from Northern Pass from DOT on
22		that?
23	A.	(Johnson) I do not.
24	Q.	You have some
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1	Α.	(Johnson) I would assume it would be within a
2		couple of weeks. They are aware that this
3		product is going to be delivered to them, and
4		obviously they have to review it and do their
5		own due diligence. But I believe that with
6		the information that we'll be providing this
7		time, it won't be several months for them to
8		review like it happened the last time.
9	Q.	And just to make sure I understand what would
10		be on DOT's plate at that time, so they would
11		be reviewing their conditions of approval,
12		including No. 4 regarding the survey, to see
13		if those conditions have or have not been
14		satisfied.
15	A.	(Johnson) Correct.
16	Q.	And they would be reviewing tens, possibly
17		approaching a hundred exception requests.
18	A.	(Johnson) So the exception request process
19		has been suspended, as was noted earlier,
20		until the results of this survey are complete
21		and incorporated into all of the exception
22		requests.
23	Q.	Thank you. So, six to eight weeks for
24		Northern Pass to submit, forgive me if I call
l	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		it a guesstimate. It's an educated guess.
2		And DOT would get back to you in about a
3		month. Following that, Northern Pass would
4		then adjust accordingly the exception
5		requests and resubmit those. How long do you
6		think that will take?
7	A.	(Johnson) A fairly quick turnaround. The
8		design drawings are already being worked on.
9		But again, until the finite review of any
10		changes in the survey that may affect the
11		exception, the individual exception request.
12		But within another month.
13	Q.	Okay. And then what's your expectation of
14		when DOT would respond to those exception
15		requests?
16	A.	(Johnson) Again, I'm not going to speak for
17		them, but they've been fairly quick at
18		turning around requests to date that have
19		gone in. So I would guess another month, I
20		would suppose.
21	Q.	I want to look now at the Utility
22		Accommodation Manual. This is Applicant's
23		Exhibit 136. I believe you testified, and
24		that everybody on the panel testified earlier
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		that they're familiar with this manual;
2		correct?
3	А.	(Bowes) Yes.
4		MS. MANZELLI: Let the record
5		reflect that most of the witnesses are
6		nodding up and down.
7	BY M	IS. MANZELLI:
8	Q.	Now, do you agree that the Utility
9		Accommodation Manual applies only to state or
10		federal roads in New Hampshire?
11	Α.	(Johnson) Correct. Or state-maintained
12		roads.
13	Q.	So you agree, saying this another way, that
14		the manual does not apply to
15		municipally-maintained roads.
16	Α.	(Bowes) I would say that's correct, yes.
17	Q.	Do you agree that the Subcommittee deciding
18		this case can impose requirements upon
19		Northern Pass that are above and beyond what
20		is required in the Utility Accommodation
21		Manual?
22	Α.	(Bowes) It's a legal question, but I believe
23		that's correct.
24	Q.	-
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		not great with the zoom on the ELMO. Can you
2		read the highlighted section, please?
3	Α.	(Bowes) "Where industry or government codes,
4		orders or laws require utilities to provide a
5		higher degree of protection than provided
6		herein, the higher degree of protection shall
7		prevail."
8	Q.	Now, we talked a bit about the Scenic Areas
9		section of the Utility Accommodation Manual.
10		Let me turn to that. Now, having heard this
11		morning's testimony, I understand that
12		currently the Project is underway considering
13		scenic areas and impacts, potential impacts
14		to them, and possibly preparing additional
15		exception requests to avoid those impacts.
16		Did I generally capture what you testified to
17		earlier?
18	A.	(Johnson) You did, yes.
19	Q.	Okay.
20	A.	(Bowes) I would also add that the initial SEC
21		Application also considered the impacts, and
22		specifically Appendix No. 9.
23	Q.	Refresh my memory. What is Appendix No. 9?
24	A.	(Bowes) It's the Petition for Aerial Road
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			13
1		Crossings and Underground Installations in	
2		State-Maintained Public Highways.	
3	Q.	Thank you. And do you the document that	
4		you're looking at there, does it have a Bates	
5		Stamp or an exhibit number on it for the	
6		record?	
7	Α.	(Bowes) It's the SEC Application. So I don't	
8		know beyond that.	
9		MR. IACOPINO: That would be	
10		Applicant No. 1. And then what appendix was	
11		it, 9?	
12		WITNESS BOWES: Appendix No.	
13		9, yes.	
14		MS. MANZELLI: Thank you.	
15	ВҮ М	IS. MANZELLI:	
16	Q.	Just looking again at the words here in the	
17		UAM, you'd agree that it says that certain	
18		lands are acquired or set aside for scenic	
19		enhancement and natural beauty; right?	
20	Α.	(Bowes) Yes.	
21	Q.	And then following that it contains a list	
22		which includes scenic strips, scenic byways,	
23		overlooks, welcome centers, rest areas,	
24		recreation areas, recreation trails, wildlife	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	7}

1		and water fowl refuges, historic sites,
2		public parks and landscaped areas; correct?
3	A.	(Bowes) Yes.
4	Q.	So am I correct, then, that the exception
5		requests to date do not address anything
6		except scenic byways from this list?
7	A.	(Johnson) So, exception requests that have
8		been filed to date don't address scenic areas
9		at all. They are more pertinent to
10		constraints or areas where the Project has to
11		move into the roadway.
12	Q.	And why is it that to date scenic areas have
13		not been addressed in the exception requests?
14	A.	(Johnson) Because the exception requests by
15		definition are for putting a road or
16		putting a facility into the roadway, which
17		would not affect trees in any way whatsoever
18		because you're under the road. It is as we
19		developed the final design and the alignment
20		in areas that are off of the road that we
21		started to identify areas that may affect
22		trees either in the scenic or non-scenic
23		byways.
24	Q.	And when you're talking about a lot of

1		your testimony this morning revolved around
2		scenic byways with respect to scenic areas;
3		correct?
4	Α.	(Johnson) Correct.
5	Q.	So why are you excluding this rather long
6		list of other types of scenic areas?
7	Α.	(Johnson) So, again, we're not necessarily
8		excluding anything. I think what we've
9		identified in the chart that was shown
10		earlier is areas that as the alignment is
11		developed and is off the pavement and
12		shoulder, areas where there could be
13		potential impacts to trees. Not excluding
14		any of these categories.
15	Q.	And just to clarify my understanding, I got
16		confused in your testimony earlier, and I
17		think I get it now. So with respect to
18		scenic areas, your intention is to request an
19		exception so that you can avoid impact to the
20		scenic area as opposed to I had thought
21		you were saying, but now I want to confirm
22		this is not what you were saying. You're not
23		contemplating requesting an exception so that
24		you can impair the scenic area.

1	A.	(Johnson) Your former statement is correct,
2		that we're looking to avoid any aesthetic
3		impacts to scenic areas.
4	Q.	And that would be all of the types of scenic
5		areas listed in this Section 7 of the UAM?
6	А.	(Johnson) If there were impacts, that's
7		correct, or potential impacts.
8	Q.	And when you were talking about tree impacts
9		with respect to this type of analysis, you
10		mentioned something about a 4-inch vegetative
11		cutoff. Can you elaborate what you meant by
12		that, please?
13	А.	(Johnson) Sure. So a 4-inch tree in general
14		is a non-mature tree or is still growing. It
15		could be 4 inches or less. So that could be
16		shrubbery on the side of the road. It could
17		be, you know, smaller species of plants. And
18		we would look at those sort of individually.
19		If they were ornamental, obviously that has a
20		different connotation than just sort of
21		shrubs along the side of the road because
22		somebody has clearly planted something or is
23		manicuring something or maintaining it.
24		Effectively what it was is the Project then
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		looked at that and said if we could clear out
2		whatever limits of the small trees versus
3		mature, that's how we looked at it.
4	Q.	So, looking at Applicant's Exhibit 222 from
5		this morning, earlier this morning, where you
6		have your fourth column, this column here,
7		Miles Outside Pavement, Potential Tree
8		Impact, were you counting only trees bigger
9		than four inches?
10	Α.	(Johnson) Yes.
11	Q.	Now, earlier you looked and if we want to
12		look at the page, I'd be happy to do that.
13		But let me try to speed things along here.
14		Attorney Needleman showed you some of
15		the sections of the UAM setting forth some of
16		the requirements, siting requirements for
17		longitudinal facilities. Do you recall that?
18	Α.	(Johnson) I do.
19	Q.	Okay. Are you aware that longitudinal
20		institutions installations for energy
21		infrastructure, such as a project like
22		Northern Pass, within the designated energy
23		corridors designated by House Bill 626 will
24		not be required to demonstrate extreme
L	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	hardship to be able to be located along,
2	within and under major state-owned
3	transportation routes, according to the
4	revised UAM that's in the approval process?
5	MR. NEEDLEMAN: Objection.
6	Relevance.
7	CHAIRMAN HONIGBERG: Ms.
8	Manzelli.
9	MS. MANZELLI: We're talking
10	about the UAM today and the special not
11	the special exception request the
12	exception requests and what the current
13	requirements are. I'm talking about what
14	future requirements might be to show an
15	increased acceptability of burying within
16	corridors.
17	CHAIRMAN HONIGBERG: These are
18	not current requirements?
19	MS. MANZELLI: That is true.
20	But it's based on current New Hampshire law.
21	CHAIRMAN HONIGBERG: How are
22	not current requirements relevant to the
23	decision we have to make today, not a
24	decision we might make?
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1	MS. MANZELLI: Because your
2	decision should be based on current New
3	Hampshire law.
4	CHAIRMAN HONIGBERG: And
5	you're saying that current New Hampshire
6	law that the UAM hasn't caught up with
7	current New Hampshire law? Is that what
8	you're saying?
9	MS. MANZELLI: That current
10	New Hampshire law requires the UAM to be
11	revised.
12	CHAIRMAN HONIGBERG: The
13	answer to my question was "Yes." You're
14	saying the UAM has not caught up with New
15	Hampshire law.
16	MS. MANZELLI: Yes.
17	CHAIRMAN HONIGBERG: And what
18	is it you want to know from this witness
19	about current New Hampshire law with which
20	the UAM has not caught up?
21	MS. MANZELLI: If he is aware
22	of it.
23	CHAIRMAN HONIGBERG: You can
24	answer.
ļ	{SEC 2015-06} [Day 42 MORNING Session ONLY] $\{09-29-17\}$

1	Α.	(Bowes) So I am aware of the new law that has
2		been passed. It was identified as House
3		Bill, I think, 626. To the best of my
4		knowledge, there are no new requirements in
5		the Utility Accommodation Manual that cover
6		this.
7	BY M	IS. MANZELLI:
8	Q.	To the best of your knowledge, there are no
9		new requirements with respect to installation
10		of longitudinal facilities?
11	Α.	(Bowes) Specific to that law, yes.
12	Q.	Okay. Have any exception requests been made
13		with respect to any overhead portion of the
14		Project?
15	Α.	(Johnson) No, there is not.
16	Q.	Are there anticipated to be?
17	Α.	(Bowes) So I will say that we committed
18		during the last testifying period to multiple
19		changes to the overhead design. We followed
20		that up with a letter in August. And I think
21		almost all of those were accommodated. So
22		there has been some changes. Some of those
23		also pertain to scenic byways and cultural
24		areas. My prefiled testimony from April
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

<ul> <li>identified many of those areas where there</li> <li>are trails or other scenic issues. And I</li> <li>think we dispositioned each one of those that</li> <li>the Counsel for the Public had identified</li> <li>beyond our visual consultants.</li> <li>Q. So I apologize. I'm not sure I heard the</li> <li>answer to, Do you anticipate filing any</li> <li>exception requests with respect to the</li> <li>overhead route? I think what you're saying</li> <li>is that you've made changes to the overhead</li> <li>route but that they don't require exceptions</li> <li>because they're, you know, otherwise in</li> <li>keeping with the UAM. Is that accurate?</li> <li>A. (Bowes) That general statement is accurate,</li> <li>yes.</li> <li>Q. Okay. I wanted to clarify another part of</li> <li>earlier testimony. And again we can look at</li> <li>the individual exception requests if you'd</li> <li>like. I'm going to try to move more quickly</li> <li>than that.</li> <li>You discussed with Attorney Pappas the</li> <li>use of the word "additional" in terms of the</li> <li>construction or excuse me traffic</li> <li>control duration.</li> </ul>			
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	22		use of the word "additional" in terms of the
24 control duration.	23		construction or excuse me traffic
	24		control duration.

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	Α.	(Johnson) Okay.
2	Q.	Do you recall that discussion?
3	A.	(Johnson) Yeah.
4	Q.	I'm trying to get a clear understanding when
5		in an exception request you say, you know, an
6		additional two weeks or an additional six
7		weeks. What is that on top of?
8	A.	(Johnson) I don't believe it's on top of
9		anything. I believe it would take two
10		weeks or in the statement it describes
11		what it would be if the exception request was
12		granted. It would take, for instance, 16
13		days in the last one we reviewed. And I
14		believe it says if the exception is not
15		granted, it'll take an additional number of
16		days beyond that original request.
17	A.	(Bowes) So that would mean traffic management
18		or traffic controls would be in place for a
19		longer period of time.
20	Q.	Than if the exception requests were granted.
21	Α.	(Johnson) That's correct.
22	A.	(Bowes) Yeah.
23	Q.	And again, I'm happy to look at the
24		individual exception requests if you prefer.
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		But let me ask you about the cost estimates.
2		You testified earlier that providing
3		cost comparisons between the exception
4		requests and, you know, whatever would happen
5		in the absence of an exception request is
6		part of the required standard; right?
7	A.	(Johnson) That's correct.
8	Q.	Now, do you agree that some of the exception
9		requests have no information whatsoever about
10		cost?
11	A.	(Johnson) Yes, they do. And for those it
12		would be no increase in cost to the
13		Applicant; it would just be a longer
14		duration. So cost was not a consideration.
15	Q.	Okay. And, for example, Request 41 estimates
16		\$2,069,100 increase for the you know, if
17		the exception requests were not approved.
18		And for the exception requests that have a
19		cost estimate like that, there's typically a
20		chart towards the end that breaks it down a
21		little bit. How is that chart prepared?
22	A.	(Johnson) The design engineer and constructor
23		prepared those based on cost estimates that
24		they have.
	L	

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

			147
1	Q.	Cost estimates from whom?	
2	А.	(Johnson) The constructor and then the design	
3		engineer.	
4	Q.	Let me this is not marked yet, but it will	
5		be SPNF 260. And this is just for the	
6		purpose of illustrating what these cost	
7		charts look like. You see here this is	
8		Exception Request No. 41?	
9	Α.	(Johnson) I do.	
10	Q.	If you turn to the fifth page, this is an	
11		example of the cost estimate that you and I	
12		were just discussing; correct?	
13	A.	(Johnson) Correct.	
14	Q.	And you note here on Note 2 it says, "Costs	
15		based on contractual unit pricing for the	
16		Project." What does that mean?	
17	Α.	(Johnson) So in the contract that the owner	
18		has with the constructor, Par Electric, there	
19		is an appendix that has unit prices for	
20		things that may be encountered in the field	
21		or new construction that gets added to the	
22		Project due to "scope creep." So the Project	
23		is the owner has identified specific costs	
24		and unit pricing for those costs as part of	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

			T.40
1		the contract.	
2	Q.	So it's really just a "plug in jug" exercise	
3		at this point. There's no, you know, bidding	
4		or shopping around associated with the	
5		exception request.	
6	A.	(Johnson) No, there is not any bidding	
7		process. The contract was awarded based on a	
8		bidding process originally.	
9	Q.	Is it fair to say that Northern Pass is	
10		having trouble getting the exceptions	
11		approved?	
12	A.	(Johnson) No. I'd say that this is actually	
13		part of the iterative process of working with	
14		the DOT. I've worked with DOTs in other	
15		jurisdictions, and this is fairly typical of	
16		the give and take and working with the design	
17		bureau to ensure a quality product that meets	
18		both the owner's and the DOT's requirements	
19		are met.	
20	Q.	Just a question about notations. In the	
21		exception requests where it would say	
22		something, for example, Request 1, and in	
23		parentheses, REV 2, does that mean that that	
24		is the first time that that request has been	
	{SEC	2015-06 $\}$ [Day 42 MORNING Session ONLY] $\{09-29-1$	.7}

			149
1		revised or that is the second time that	
2		request has been revised?	
3	Α.	(Johnson) Would be the second time.	
4	Q.	So then, do you agree that seven of the	
5		exceptions have been rejected after the	
6		second submittal?	
7	А.	(Johnson) I'd have to look, but I'll take	
8		your word for it.	
9	Q.	Do you agree that	
10	А.	(Johnson) It's possible.	
11	Q.	I'm sorry?	
12	А.	(Johnson) It's possible.	
13	Q.	Do you agree that seven have been rejected	
14		after the third submittal?	
15	А.	(Johnson) Again, I don't know.	
16	Q.	Do you agree that there's even one that's	
17		been rejected after the fourth submittal?	
18	А.	(Johnson) It's possible. So that kind of	
19		rejection could be an iteration, where the	
20		DOT has proposed something on their first,	
21		we've counterproposed something, and we go	
22		back and forth through the design iterations	
23		until, again, we're all satisfied that	
24		conditions have been met to benefit everyone.	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

1	Q.	You agree I'm looking at the let me
2		just put it up for you. Applicant's Exhibit
3		183. This is the May 31, 2017 letter from
4		the DOT, which was the Department's first
5		formal response to the exception requests as
6		you testified earlier; correct?
7	Α.	(Johnson) Yup.
8	Q.	You agree that if we flip through the pages
9		there, you'll see comments from the
10		Department of Transportation, such as there
11		are so many existing utilities missing, they
12		can't adequately review the exception
13		request?
14	A.	(Johnson) I believe we looked at that one
15		earlier, yes.
16	Q.	And that DOT noted for you that, quote,
17		"Correct information should be shown on
18		plans," end quote?
19	A.	(Johnson) I'll take your word for it, sure.
20	Q.	You testified earlier that, with respect to
21		Exception Request 59, the use of fluidized
22		aggregate-based coarse material was denied.
23		This is the sort of top layer of the FTB;
24		correct?
	(ana	

{SEC 2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1	A.	(Johnson) That's correct.
2	Q.	So what will you do instead?
3	Α.	(Johnson) So we'll do like every other
4		construction process. You will lay back down
5		gravel and sand and whatever components are
6		required, compact them to the appropriate
7		level, put the next layer on, compact that to
8		the next level and build up a sub base until
9		ultimately we put asphalt on the road.
10	Q.	And will that require any application
11		amendments or anything like that, or is that
12		what you had originally proposed in the first
13		instance?
14	Α.	(Johnson) That's the original proposal.
15	Q.	Again, looking at the DOT I apologize.
16		MS. MANZELLI: I had
17		anticipated asking Attorney Needleman to
18		confirm this earlier, but I will ask now.
19		Could you please confirm that
20		the July 7th letter from DOT is also part of
21		Applicant's 183, just for the record? Okay.
22		Yes, it is.
23	BY M	IS. MANZELLI:
24	Q.	So we're looking at a different part of
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		Applicant's 183, which is the July 7, 2017
2		letter from the Department of Transportation.
3		And you agree that if we were to leaf through
4		that, we would find a statement with respect
5		to Exception Request No. 18 that says the
6		existing NHDOT right-of-way appears from the
7		survey report to be the lowest level of
8		accuracy; right?
9	A.	(Johnson) Again, I'll take your word for it.
10	Q.	Take a second to look at this page, APP
11		65159. Do you see the highlighted language
12		there? Did I accurately describe that?
13	A.	(Johnson) You did.
14	Q.	Why would Northern Pass provide information
15		with the lowest level of accuracy?
16	Α.	(Johnson) Would appear to be an error.
17	Q.	Do you agree that if we leafed through some
18		more of these DOT responses and rejections
19		and requests for further information, that
20		DOT had significant concerns about impact to
21		abutters?
22	A.	(Johnson) Yes.
23	Q.	So is the adverse impact to abutters up and
24		down New Hampshire not worth Northern Pass
ļ	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		investing in the highest level of accuracy,	
2		or something better than the lowest level of	
3		accuracy?	
4	A.	(Johnson) So that's exactly the process that	
5		we're working through today, that we started	
6		to do in the past, and we're doing it to a,	
7		in my opinion, a better quality product or a	
8		tighter product than was put in before.	
9		Clearly there were some errors in this survey	
10		report that was put in, and we're striving to	
11		correct those and ensure that we have an	
12		accurate depiction of what the Project	
13		believes is the right-of-way.	
14	Q.	So was the error a Project decision to try to	
15		get approval with the lowest level of	
16		accuracy?	
17	A.	(Johnson) No. In this case, I believe it was	
18		just mislabeled.	
19		MS. MANZELLI: Mr. Chairman, I	
20		had asked Counsel for the Public for a favor,	
21		to print something for me. Let me just	
22		confer.	
23		(Pause)	
24	BY M	S. MANZELLI:	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] $\{09-29-1$	.7}

			191
1	Q.	Just a couple follow-up questions from your	
2		testimony earlier today.	
3		You testified earlier that, with respect	
4		to the survey, DOT was looking for more	
5		foundational evidence to move away from that	
6		"approximate" language. Was the survey	
7		submitted before field work was done?	
8	Α.	(Johnson) No.	
9	Q.	Do you have the conference report from the	
10		9/19 DOT meeting?	
11	Α.	(Johnson) Not published yet.	
12	Q.	Do you have it?	
13	Α.	(Johnson) I do not, no. The DOT prepares the	
14		conference reports.	
15	Q.	Does anyone on the panel have it?	
16	Α.	(Bowes) I do not.	
17	Α.	(Johnson) I don't believe it's available yet.	
18		They have not published it yet to us.	
19	Q.	When you were using your chalk exercise,	
20		which has now been marked as Applicant's	
21		Exhibit 223, you said something about Section	
22		A and, I believe, Section H that	
23		characterized those areas as "normal." You	
24		said I don't have your exact words, but	
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	.7}

1		you said something like, and then, you know,
2		when we get away from these obstructions in G
3		and E and C, back to something that's normal,
4		and then you continued your thought. I'm
5		wondering what you meant by "normal"
6		circumstances.
7	Α.	(Johnson) So that's where there is available
8		space between the edge of the road and the
9		edge of the right-of-way to install the
10		alignment without impacting anything.
11	Q.	And do I understand correctly that for the
12		HDD that does not exist?
13	Α.	(Johnson) So, the HDD, by definition, has to
14		go underneath the roadway as it goes under
15		bridge abutments. So there will always be an
16		exception request for that. The nuance that
17		Mr. Pappas and I discussed earlier were cases
18		where the entry and exit pits have to be in
19		the roadway partially or fully due to
20		right-of-way constraints.
21	Q.	Mr. Scott, earlier you testified that you
22		prepared the initial design of the
23		underground design; correct?
24	Α.	(Scott) Correct.
	{SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

 $\{SEC 2015-06\}$  [Day 42 MORNING Session ONLY]  $\{09-29-17\}$ 

			T20
1	Q.	When was that?	
2	A.	(Scott) I'd have to check the date on the	
3		drawings. It's been a while.	
4	Q.	Can you approximate at all? Certainly it was	
5		before October of 2015, which is when the	
6		Application was filed; right?	
7	A.	(Scott) Yeah, I believe it was that summer.	
8	Q.	So, approximately mid-2015.	
9		Is anybody on the panel aware of whether	
10		the UAM has changed at all, the approved	
11		version of the UAM has changed at all from	
12		the time of initial design in approximately	
13		2015 through to the present?	
14	A.	(Johnson) I don't believe it has. The UAM is	
15		dated 2010, the one that were designing	
16		towards and have has put forth as part of the	
17		exhibits.	
18	Q.	Mr. Bowes, you testified earlier that	
19		typically the DOT provides the right-of-way	
20		on a project; correct?	
21	A.	(Bowes) That is correct. In my 30 years of	
22		doing projects, the state DOTs provide their	
23		rights-of-way.	
24	Q.	There's a statutory process for DOT to define	
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-1	_7}

1		an unclear right-of-way. Would you like DOT
2		to do that for this project?
3	A.	(Bowes) I think they have given us a
4		condition where we will have control of that
5		process and go forward and do that.
6	Q.	Mr. Johnson, you testified earlier that, I
7		think your word was "several," but to me it
8		seems like 10s, approaching somewhere between
9		50 and 100 of the exception requests have
10		been withdrawn; right?
11	A.	(Johnson) Correct.
12	Q.	How would one have known that aside from your
13		testimony today?
14	A.	(Johnson) Most likely you wouldn't. We have
15		informed the DOT of which ones that we have
16		withdrawn. The DOT chose to put all of the
17		exception requests onto their web site as, I
18		assume, clarity or as far as the request for
19		information. In effect, we have withdrawn
20		all of them at this point, except
21	Q.	Unless they've been approved.
22	A.	for the ones that have been approved while
23		we update the information.
24	Q.	Ms. Frazier, you testified earlier let's
	SEC	2015-06} [Day 42 MORNING Session ONLY] {09-29-17}

1		see here that you had submitted I
2		didn't catch the name of the form. But the
3		meaning of the form was a form to help the
4		DOT's determination as to whether a
5		full-blown Traffic Management Plan would be
6		needed, or something short of that; correct?
7	A.	(Frazier) Correct. It's the Traffic Control
8		Committee's determination.
9	Q.	And you testified that you withdrew that
10		request. And then I think it was Mr. Johnson
11		that added that that request has not been
12		resubmitted; is that correct?
13	A.	(Frazier) Correct.
14	Q.	And then you testified that Mrs. Esterberg is
15		acting on that request, even though it hasn't
16		been resubmitted; is that correct?
17	A.	(Johnson) No. So, part of what Ms. Esterberg
18		is doing is getting, if you will, a
19		placeholder for the Project to present at
20		the with the Traffic Control Committee, at
21		which time the document that Ms. Frazier is
22		referring to will be presented to them.
23	Q.	Thank you. I have no further questions.
24		CHAIRMAN HONIGBERG: All

1	right. We'll take our lunch break and be
2	back about 1:30.
3	(Lunch recess taken at 12:33 p.m., and
4	this concludes the Day 42 Morning
5	Session ONLY. The hearing continues
6	under separate cover in the transcript
7	noted as Day 42 Afternoon Session
8	ONLY.)
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1	CERTIFICATE
2	I, Susan J. Robidas, a Licensed
3	Shorthand Court Reporter and Notary Public
4	of the State of New Hampshire, do hereby
5	certify that the foregoing is a true and
6	accurate transcript of my stenographic
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8	place and on the date hereinbefore set
9	forth, to the best of my skill and ability
10	under the conditions present at the time.
11	I further certify that I am neither
12	attorney or counsel for, nor related to or
13	employed by any of the parties to the
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15	relative or employee of any attorney or
16	counsel employed in this case, nor am I
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#### DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HE	ARING			September 29, 2017
	62:1	advanced (1)	22:2;23:21;27:7;	52:10;94:15;152:6
\$	According (2)	42:2	28:21,24;29:16,22;	Appendix (5)
Ą	83:21;141:3	advancement (1)	31:1,5,10;54:15;	135:22,23;136:10,
\$2,069,100 (1)	accordingly (1)	103:13	62:11;66:4;77:15;	12;147:19
146:16	133:4	adverse (3)	92:3;116:7;137:19;	Applicant (5)
140.10	accuracy (7)	26:23;30:7;152:23	138:10;155:10	45:4,7;118:13;
[	106:15;110:1;	adversely (1)	alignments (2)	136:10;146:13
L	152:8,15;153:1,3,16	81:17	24:16;30:15	Applicant's (22)
[sic] (1)	accurate (13)	Aerial (1)	allow (7)	5:4;8:19;12:20;
98:13	57:10;58:23;110:9,	135:24	29:11;33:3;34:9;	15:22;21:2;25:17;
	16;128:9,21;129:1,6;	aesthetic (3)	103:15,16;105:9;	46:7;51:23;53:17;
Α	130:12;131:3;	26:14;35:20;139:2	123:21	92:8;106:18;107:11,
	- 144:13,14;153:12	affect (5)	allowed (1)	20;118:9,18;127:23;
ability (2)	accurately (1)	81:17;121:14;	105:15	133:22;140:4;150:2;
31:10;56:19	152:12 achieving (1)	133:10;137:17,21 affected (2)	<b>almost (2)</b> 17:18;143:21	151:21;152:1;154:20 application (9)
able (12)	11:11	40:5;66:12	along (21)	21:21;44:22;45:9,
21:24;25:8;32:13;	acquired (1)	40.5,00.12 Afternoon (1)	16:13;24:11;28:22;	18,24;135:21;136:7;
34:19;36:22;39:23;	136:18	159:7	35:4;44:12;60:21;	151:10;156:6
42:4;50:22;56:13;	across (5)	again (40)	65:14,24;66:21;89:5,	applies (1)
115:22;134:24;141:1	11:13;15:15;72:3;	5:6;10:4,22;19:20;	5;97:13;105:9,22;	134:9
above (12)	76:4,10	29:7,15,16,18,20,24;	106:2;114:17;	apply (3)
56:17;57:12;58:11; 59:12;65:23;102:8,	acting (1)	30:2,8;34:12,12;	116:16;127:16;	78:20;121:10;
15,18,23;103:12;	158:15	57:8;58:13;61:4,11;	139:21;140:13;141:1	134:14
104:1;134:19	activity (1)	86:9,23;87:19;94:2;	alternate (4)	approach (2)
absence (1)	91:19	105:19;122:12,18;	62:16,20;63:23;	10:2;11:9
146:5	actual (9)	123:8;128:5;129:15,	66:18	approaching (2)
Absolutely (2)	8:17;20:17;37:10;	16;130:5;133:9,16;	alternative (2)	132:17;157:8
17:18;120:5	42:6;74:12;76:12;	136:16;138:7;	41:1;65:10	appropriate (3)
abutment (1)	102:2,18;115:11	144:17;145:23;	although (1)	10:9;19:14;151:6
40:14	actually (11)	149:15,23;151:15;	91:3	approval (15)
abutments (6)	8:4;20:6;34:1;	152:9	always (3)	9:22;17:2;58:1;
15:5;40:9,20;	37:3;39:10,22;40:12;	<b>against (1)</b> 23:19	60:12;102:17; 155:15	101:24;106:19;
59:23;60:1;155:15	45:8;48:13;123:19; 148:12	agenda (3)	amendments (1)	110:20;111:8; 116:14,18,19;129:6,
abutters (2)	add (8)	124:22;125:5,6	151:11	22;132:11;141:4;
152:21,23	11:4;32:16;49:7;	aggregate-based (1)	amount (3)	153:15
abutting (1)	57:24;68:20;73:10;	150:22	24:10;40:1;66:11	approve (3)
113:1 A codomy (5)	119:9;135:20	ago (6)	Amy (1)	116:19;117:22;
Academy (5) 70:9,11;72:13,15,	added (2)	36:14;50:5;53:18;	127:9	118:6
20	147:21;158:11	98:9,21;116:24	analysis (2)	approved (31)
accept (2)	addition (2)	agree (41)	41:4;139:9	16:5,11,15;20:12;
124:1,5	5:23;94:22	43:4;53:14;58:19;	and/or (1)	22:14,16,21;29:20;
acceptability (1)	additional (18)	60:24;75:16;84:16;	130:2	31:8;32:10;36:6;
141:15	37:5;51:8,19;63:9;	85:9;89:24;90:12;	anticipate (7)	52:4,12;53:7,7,12,16;
acceptable (1)	66:8,16;68:5;76:6;	91:22;93:1;94:11;	51:7,18;99:20;	54:1;63:3;64:15;
11:8	89:1;129:18,19;	95:4;96:1;97:15,23;	125:7,16,18;144:7	95:11;101:11,15,23;
accepted (2)	130:5,6;135:14;	98:5,19;100:18;	anticipated (5)	131:5,11;146:17;
9:22;52:9	144:22;145:6,6,15	103:9;104:13;	63:4;67:7;76:9;	148:11;156:10;
access (4)	address (7) 7:11;12:11;52:14;	108:14,20;109:18; 116:12,21;117:3;	143:16;151:17 anticipates (1)	157:21,22
83:8,13,17;84:11	77:7;107:4;137:5,8	128:7;134:8,13,17;	124:22	<b>approving (1)</b> 130:21
accommodated (1)	addressed (4)	128:7,134:8,13,17, 136:17,146:8,149:4,	anticipation (1)	approximate (8)
143:21	7:11;27:21;124:3;	9,13,16;150:1,8;	35:16	7:19,21;23:11;
Accommodation (13)	137:13	152:3,17	apart (2)	100:2;110:12;
12:22;14:8;20:9;	adequately (3)	agreed (1)	78:12;93:24	128:15;154:6;156:4
25:18;26:6,21;31:3;	107:7,23;150:12	130:18	apologize (2)	approximately (14)
42:21;133:22;134:9,	adjust (1)	Ah (2)	144:6;151:15	22:1,14;23:15;
20;135:9;143:5	133:4	102:23;119:4	APP (1)	49:18;60:20;67:24;
accompanies (1) 6:19	Administrator (1)	Alan (1)	152:10	69:8;71:11;78:18;
accompanying (1)	19:11	19:3	appear (1)	88:19;93:22;94:2;
11:17	admissions (2)	alignment (22)	152:16	156:8,12
accomplish (1)	47:9,14	8:18;20:18,23;	appears (3)	April (2)
accomption (1)				

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DAY 42 - MORNING SESSION ONLY September 29, 2017

123:2:143:24 assess (1) archives (1) 35:20 assessment (2) 10:8area (82) 5:18:44:19 28:5,9,10:29:8,15, assist (1) 17;30:2,6,13,14,14, 58:5 14;39:4;48:8;60:10, Assistant (2) 14:63:15:66:12; 19:3,19 associated (1) 70:18,20,22;71:1,7, 12,13;73:14,19;74:1, 148:4 23;75:7,8,13,13,14, assume (7) 42:21,23;43:20; 16,17;78:3,7,15;79:5, 97:8;119:24;132:1; 9,24;80:7;82:1,10,18; 83:12:84:14:85:5,5,8, 157:18 17;86:9;87:3,3,6,10, assuming (2) 47:20;74:17 22,23;88:4,6;89:1,3, assumption (1) 6,12;91:3;93:12; 95:23;97:20;98:3,4; 71:15 assured (1) 103:14;109:16; 112:5,17;113:24; 28:24 114:2,4,5;116:20; asterisk (1) 138:20.24 22:9 areas (62) asterisks (1) 10:14;17:1;25:15; 24:9 26:2,3;28:1,20; attached (1) 29:10;30:23;32:14; 111:3 33:5,6,17,19;34:24; attend (1) 35:15,23;38:2;54:12; 125:3 58:6;70:15;77:3; attended (3) 78:10;84:20;88:14. 123:4,9;124:12 21:90:15:98:11.13. attends (4) 16.23:99:1.4:105:4: 18:21:19:11.14.20 110:13:113:4,17; attention (4) 114:12.23:115:1.9. 13:2:22:9:24:8: 78:1 12;135:8,13;136:23, 24;137:2,8,10,12,20, Attorney (3) 140:14;144:21; 21:138:2,6,10,12,18; 139:3.5:143:24: 151:17 144:1;154:23 August (4) 8:20;111:4;124:11; around (9) 18:1:58:16.16: 143:20 authorizing (1) 88:22:97:4,10; 133:18;138:1;148:4 20:10 arrive (1) available (8) 97:2 11:22;20:1;36:1; as-built (2) 41:20;112:16,19; 41:19,21 154:17;155:7 as-builts (1) avoid (13)8:10 25:9,14;27:8; ascertain (1) 29:23;30:9;34:4; 21:24 36:18,23:113:17; aside (2) 114:9:135:15: 136:18;157:12 138:19:139:2 avoided (1) asleep (1) 33:22 100:12 awarded (1) aspect (1) 27:12 148:7 aspects (3) aware (12) 6:16;26:19;116:9 12:24;41:8;43:20; asphalt (2) 59:9:79:23:80:1; 104:4:151:9 82:18:132:2:140:19: 142:21;143:1;156:9 assemble (1) 96:24 away (7)

13:23:23:8:73:2.6; 79:15:154:5:155:2 axles (1) 100:14B back (37) 5:4:10:4,7:17:11, 13.19:25:17:28:13: 29:23;30:3,9,11; 31:13:35:8:39:13: 42:19;52:23;61:19; 65:13;80:10;89:3; 91:6;96:8;101:9; 104:9;106:4;110:8; 124:2;128:12;129:8; 130:2;131:21;133:2; 149:22;151:4;155:3; 159:2 backfill (13) 16:7;34:17;57:19; 96:20;97:4;101:2,8; 105:2,7,11,18,20,24 backfilled (1) 105:5 backfilling (1) 96:11 background (1) 7:14 backup (1) 117:4backwards (1) 82:11 ballpark (1) 55:13 bank (3) 68:3;104:1,2 barn (7) 28:6,7;29:19;90:7; 113:21:114:1.3 base (6) 99:15,16,21,23; 102:24;151:8 based (16) 11:6;20:15;31:1,2, 7,24;48:7;51:19; 67:8;71:5;83:16; 141:20;142:2; 146:23;147:15;148:7 basically (18) 11:18;12:3;13:5, 18;14:13;17:20; 21:10,12,20;27:19; 29:6;102:6;104:4; 112:13,15;113:2; 116:5;130:17 basin (2) 18:1.3 basis (3) 13:23;24:4;26:22 Bates (1) 136:4

Bear (1) 97:17 Beaulieu (1) 19:7 beauty (1) 136:19 Beaver (2) 88:1,9 begin (3) 12:4:36:7:37:2 begun (1) 125:17 behalf (2) 6:19:130:16 behind (1) 84:12 believes (2) 11:20;153:13 below (8) 15:7,8;33:13; 40:17;57:4;102:14, 20:104:11 benefit (1) 149:24 best (3) 59:17;143:3,8 Bethlehem (3) 16:19:24:17:43:17 better (3) 32:7:153:2.7 beyond (7) 37:17:65:23:66:9: 134:19;136:8;144:5; 145:16 bidding (3) 148:3,6,8 big (1) 100:11 bigger (2) 40:21:140:8 Bill (3) 19:19;140:23; 143:3 bit (6) 22:11;42:2;87:6; 127:15;135:8;146:21 **BL**(4) 109:19,19,24; 111:12 black (1) 72:1 **Bob** (1) 19:12 bore (1) 91:16 bores (2) 60:18;78:9 both (14) 6:3,9;14:1,3;16:10; 19:17;40:1,4:58:8; 60:16:68:20:91:12: 109:24;148:18 bottom (9)

24:9:68:21:75:1; 78:2:88:8:89:16.19: 102:2;124:14 boundaries (4) 7:16,17;12:5;120:3 boundary (14) 7:22;10:6;36:4; 113:11:114:14; 115:3;116:13;120:7, 14:121:2,6,8,19,21 bounds (1) 10:12 Bowes (56) 6:3,7,11,21,22; 32:16;41:11,15;45:3; 51:7,18;56:10,12,14, 23;57:8,17;58:13,23; 59:13,17;68:19; 103:3,13;104:16; 105:4,8,17,21;121:5, 10,13,14,18,24; 122:6;134:3,16,22; 135:3,20,24;136:7, 12,20;137:3;143:1, 11,17;144:14;145:17, 22;154:16;156:18, 21;157:3 box (4) 8:4;101:19;102:3,4 break (2) 76:17:159:1 breaks (1) 146:20 bridge (13) 15:5;27:23,24; 29:3;40:9,9,13,14,20; 41:19:59:23,24; 155:15 **Bridgewater** (5) 16:13:19:6:24:17; 43:18;50:8 brief (2) 5:8;18:7 briefly (2) 13:16;14:11 bring (9) 8:19;18:18,19; 35:8;76:9;96:19; 104:9;105:1;106:4 bringing (1) 76:3 brook (1) 88:5 bug (1) 116:24 build (1) 151:8 building (5) 79:9,11,14,17;80:9 built (2) 56:16:103:21 Bureau (8) 9:10,18;19:10,14;

129:9:130:16,18; 148:17 burying (1) 141:15 business (2) 33:18:80:8 byway (7) 24:12,22,23;25:4; 26:23;30:8;35:20 byways (15) 22:6,8;24:14,18; 25:11:26:1.12.19; 35:12;51:12;136:22; 137:6,23;138:2; 143:23 С cable (4) 34:10,20,22;60:19 calculation (1) 120:4 calculations (1) 38:3 call (6) 13:2,13;14:8; 15:21;21:2;132:24 called (1) 54:14 Calling (2) 22:9:125:22 came (1) 34:1 Campton (4) 48:16;77:18;81:10; 92:18 can (64) 5:12;6:12;11:3; 14:5,7,11,24;15:24; 17:2:18:7:20:16.21: 21:8;22:10,19;23:1; 24:5:25:12:26:10.15: 27:8,9,13;28:24; 30:13;31:5;32:1; 35:7,13;37:14;38:6, 7;39:5;41:20;46:13; 47:4;50:3;51:3; 52:22;55:17;69:15; 71:21;90:20;95:5,11; 96:8,14,18,18,18,19; 97:5:106:21:117:1; 121:18;124:15; 134:18;135:1; 138:19,24;139:11; 142:23;144:17;156:4 capable (1) 128:24 capture (1) 135:16 case (5) 49:12;55:6;79:18; 134:18:153:17

13:22 cases (4) 15:20;17:13;37:13; 155:17 casings (1) 39:14 Cast (1) 19:19 catch (3) 18:1.2:158:2 categories (1) 138:14 category (2) 60:3:77:24 caught (3) 142:6,14,20 cause (1) 39:17 center (3) 75:10;78:14;82:16 centers (1) 136:23 certain (12) 8:5:15:14.20: 20:19;26:19;29:10, 24;32:9;56:4,5;66:2; 136:17 certainly (6) 49:15;50:22;68:12; 90:9:97:15:156:4 certainty (1) 27:6 certificate (2) 41:13.14 Chair (3) 27:11;42:9;126:23 CHAIRMAN (24) 5:2;30:19;42:10, 13;47:12,17;51:1; 76:15,20,23;108:2,7; 126:18,24;127:5; 141:7,17,21;142:4, 12,17,23;153:19; 158:24 chairs (1) 18:24 Chair's (2) 5:17;6:9 chalk (3) 27:11;31:19; 154:19 change (4) 72:5;120:3;125:22, 23 changed (3) 45:23;156:10,11 changes (6) 17:16;120:2; 133:10;143:19,22; 144:10 characteristics (1) 34:20characterized (1)

154:23 chart (3) 138:9;146:20,21 charts (1) 147:7 check (1) 156:2 Chelsea (4) 83:3;84:6,10,15 Chief (2) 18:23;19:13 chime (1) 95:5 chimney (1) 34:9 chimneys (1) 34:3 chose (1) 157:16 chosen (1) 45:15 Chuck (1) 19:9 circulate (1) 31:15 circumstance (1) 45:6 circumstances (3) 56:4;125:23;155:6 clarify (3) 37:1:138:15; 144:16 clarity (3) 20:17,22;157:18 Clarksville (1) 16:24 clear (8) 40:19;47:13;59:13; 69:10:78:17:128:21: 140:1:145:4 clearance (1) 69:19 Clearly (4) 15:7;105:8;139:22; 153:9 cliff (2) 28:1;29:8 close (9) 12:12;28:8,11,15; 43:6,9;71:17;81:20; 105:19 closed (10) 62:20:63:5,14,15, 24;64:8,13,24;65:7; 95:23 Closest (1) 73:1 closure (6) 65:24;66:9,20; 67:6;100:22;105:13 closures (3) 65:16;66:17;97:22 coarse (1)

150:22 codes (1) 135:3 Column (17) 21:13,15:22:10,23; 24:20;35:10,17; 36:24;37:22;118:22; 119:3.5.15;121:15, 16;140:6,6 Columns (4) 21:12;22:24; 119:10:122:20 comfortable (3) 32:19;33:2,12 comment (1) 90:8 comments (3) 52:14;77:7;150:9 commissioner (6) 7:3,5;13:22;19:20; 20:8;32:17 commissioner's (4) 10:11,16;112:1,15 commitments (1) 81:19 committed (1) 143:17 Committee (11) 5:18;15:24;18:10; 21:9:38:21:41:13: 47:24;123:20; 124:17.20:158:20 **Committee's (2)** 7:12:158:8 compact (2) 151:6.7 companies (6) 59:1,2;109:19,20. 24:111:13 compared (2) 23:16;106:7 comparisons (2) 14:16;146:3 complete (4) 36:4;41:18;126:9; 132:20 completed (2) 5:15;130:14 completely (2) 38:10;54:19 complexity (1) 73:11 component (2) 61:21;102:18 components (2) 12:14;151:5 compressed (1) 33:5 concentration (1) 33:18 conceptual (2) 39:3,22 concerned (1)

#### DAY 42 - MORNING SESSION ONLY September 29, 2017

51:15 concerns (7) 7:12;8:22;26:7; 32:20;107:5;109:4; 152:20 concludes (1) 159:4 concrete (7) 8:4;57:19;58:3; 97:1:99:7:104:6.8 **Condition (8)** 9:13:13:15:41:12, 15;110:21;118:4,7; 157:4conditional (2) 110:20;129:21 conditions (11) 9:14;52:4,12;54:1; 58:1;102:7;111:8; 118:7;132:11,13; 149:24 conduit (2) 39:14;89:4 confer (1) 153:22 conference (11) 123:1,2,7,8,9,13; 124:10,11,14;154:9, 14 confidence (4) 25:8:41:21:110:1. 16 confident (4) 22:18:25:3:27:8: 110:10 confirm (3) 138:21:151:18,19 conflicts (1) 113:18 confused (1) 138:16 congratulations (1) 42:17 connect (1) 76:4 **Connecticut (2)** 43:15,15 connections (1) 68:4 connotation (1) 139:20 consider (2) 32:3:131:17 consideration (2) 104:15:146:14 considered (2) 122:10;135:21 considering (2) 125:20;135:12 consistent (1) 53:16 constrained (7) 33:6,8;98:4,20,23;

case-by-case (1)

DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEARING September 29, 2017				
99:1,5	conversations (3)	21:9,12	20;145:13,16	124:19;150:4
constraints (2)	9:5,8;40:10	creating (2)	deal (8)	depend (1)
137:10;155:20	conversely (2)	11:15,19	10:3;35:17;57:7,	67:1
construct (2)	25:2;122:3	creep (1)	17;58:11,15;59:5,10	dependent (1)
59:3;93:11	convince (1)	147:22	dealing (5)	61:17
construction (44)	34:19	crews (4)	6:13;59:7;61:2;	depending (5)
5:5;6:1;7:1,9;16:8,	coordinator (1)	10:23;11:12;33:7;	81:6;87:19	19:20;28:17;51:13;
9;23:15;32:11;33:16,	19:17	67:1	dealt (1)	102:5;115:5
23;34:1,21;35:5;	Coos (1)	cross (2)	50:13	depends (1)
36:11,14,21;37:7,9;	19:9	29:21,23	decade (1)	57:8
38:1;40:4;56:11;	copy (4)	CROSS-EXAMINATION (2)	42:2	depict (1)
58:5,9;59:6;65:6,11,	63:19;92:17;123:1,	42:14;127:7	deciding (1)	86:13
16;66:5,7;68:14;	19	crossing (6)	134:17	depiction (1)
73:13;78:5;81:18;	corner (2)	27:24;38:19;57:22;	decision (7)	153:12
83:19;91:19;104:14,	71:21;75:5	58:6;62:10,12	53:24;82:24;	depth (2)
20;105:14;106:6;	corrected (2)	crossings (2)	106:23;141:23,24;	33:21;61:12
126:3,8;144:23;	59:16;122:1	59:23;136:1	142:2;153:14	describe (9)
147:21;151:4 constructor (3)	<b>correctly (2)</b> 107:16;155:11	cross-referenced (1) 23:18	decisions (1) 53:3	6:12;21:8;26:10; 38:6;41:20;113:9;
146:22;147:2,18	correspond (1)	crossways (1)	declines (1)	115:24;128:8;152:12
consultants (1)	107:22	37:15	15:15	described (4)
144:5	corridors (2)	cued (1)	deeds (1)	11:8;32:1;36:23;
consume (1)	140:23;141:16	5:9	112:18	38:1
68:12	corrugated (1)	cultural (3)	deep (3)	describes (2)
contact (1)	8:2	24:12,18;143:23	15:10;29:6;32:10	16:3;145:10
7:4	cost (11)	culvert (2)	deeper (1)	describing (2)
contains (2)	14:16;146:1,3,10,	8:4;56:2	65:10	36:13,15
51:24;136:21	12,14,19,23;147:1,6,	current (10)	defer (2)	description (4)
contemplate (2)	11	39:24;141:12,18,	95:9;99:13	18:7;78:6,22;
14:2,4	Costs (3)	20,22;142:2,5,7,9,19	define (3)	128:13
contemplated (2)	147:14,23,24	currently (3)	45:8;129:10;	descriptive (1)
66:6,10	Cota (1)	119:24;120:7;	156:24	22:23
contemplating (1)	124:4	135:12	defined (5)	design (51)
138:23	Counsel (26)	customers (2)	128:9,22;129:1,7;	6:18,19;8:17;
continually (1)	47:1,6;62:4,6;	33:18;35:4	130:12	12:16;13:23;14:16;
38:16 continue (3)	63:18;67:10,11;77:4, 10;80:21;81:3;82:22;	<b>cut (1)</b> 24:5	<b>defines (1)</b> 14:13	17:17,21;18:23; 20:14;21:18,19;23:5,
18:14;73:11;109:9	83:23;84:22;85:22;	cutoff (1)	defining (1)	17;26:22;32:4;35:24;
continued (1)	86:18;87:15;89:11;	139:11	130:11	36:7,9;38:15,16,22;
155:4	92:16;95:14;111:2;	157.11	definitely (1)	39:21;40:7,13;41:6;
continues (1)	122:24;127:24;	D	122:1	43:11;44:1,21;45:22;
159:5	128:1;144:4;153:20		definition (5)	46:3;51:14;57:18;
continuous (1)	counterproposed (1)	dashed (1)	15:9;23:6;61:11;	58:8;59:3,5;67:19;
106:2	149:21	110:17	137:15;155:13	81:16,17;130:16,17;
contract (3)	counting (1)	data (1)	definitive (1)	133:8;137:19;
147:17;148:1,7	140:8	14:16	67:19	143:19;146:22;
contractor (4)	County (2)	date (10)	degree (2)	147:2;148:16;
7:1;34:2;106:10,11	19:9;97:17	20:12;31:8;50:3,4;	135:5,6	149:22;155:22,23;
contractual (1)	couple (7)	53:23;133:18;137:5,	delivered (1)	156:12
147:15	29:21;38:13;48:5;	8,12;156:2	132:3	designated (3)
contrary (1)	118:8;127:18;132:2;	dated (1)	demonstrate (1)	24:17;140:22,23
44:8	154:1	156:15 Dorra (1)	140:24	designed (4)
<b>control (18)</b>	<b>course (2)</b> 15:14;38:18	<b>Dave (1)</b> 19:1	denied (7)	18:1;43:22;44:6,10
14:17;61:21,24; 62:16,23;63:10,22;	15:14;58:18 cover (3)	19:1 Dawn (2)	17:8,9;65:5;80:2; 83:2;104:5;150:22	designing (2) 58:16;156:15
64:3,13;67:23;95:18;	34:4;143:5;159:6	27:13;35:7	deny (1)	designs (1)
104:22;123:20;	covered (3)	Day (7)	117:22	103:22
124:17;144:24;	35:15;127:14,16	5:4;64:18;105:23,	denying (1)	detail (2)
157:4;158:7,20	crane (3)	24;106:1;159:4,7	130:21	22:11;109:17
controls (1)	97:3;100:4,14	days (17)	Department (5)	details (1)
145:18	create (2)	62:24;63:5;64:3,8,	14:19;40:13;	18:17
convenience (1)	33:3,15	17,18;95:19,22;96:4,	127:19;150:10;152:2	determination (7)
17:23	created (2)	6,20;97:6,6;100:20,	Department's (2)	24:10;116:2,5;

SUSAN J. ROBIDAS, N.H. LCR (603) 540-2083 shortrptr@comcast.net

(4) constraints - determination

#### DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEA	ARING			September 29, 2017
124.10.120.5.150.4	20, 17, 121, 2	129,12,20,120,4,0	J	0.0.21.6.40.16
124:18;129:5;158:4,	29:17;131:2;	128:12,20;129:4,9,	dropping (1)	9:9;31:6;40:16;
8	147:12	15,19;130:2,11,15;	28:4	50:8;139:24
determinations (1)	Discussion (3)	131:17,21;133:2,14;	duct (5)	effort (2)
20:6	77:22;117:18;	148:14;149:20;	68:3;102:8,16;	11:24;83:19
determine (6)	145:2	150:4,16;151:15,20;	104:1,2	efforts (1)
31:10;38:3;112:21;	discussions (2)	152:18,20;154:4,10,	ducts (3)	38:15
115:11;119:8;123:21	21:23;26:10	13;156:19,24;157:1,	102:2,18,19	eight (3)
determined (5)	dispositioned (1)	15,16	due (3)	117:9,12;132:23
23:3;39:4;54:13;	144:3	DOTs (2)	132:5;147:22;	eighth (1)
110:5;111:11	distance (2)	148:14:156:22	155:19	128:19
develop (2)	23:9;29:24	<b>DOT's</b> (20)	duration (10)	eight-week (3)
129:16;131:3	District (2)	5:22;12:12;13:7;	61:21;62:23;64:3;	11:22;131:9,11
developed (2)	19:4,7	29:20;44:12,23;45:3;	66:14;67:23;95:18;	either (17)
137:19;138:11	district's (1)	46:12,16;51:24;53:2;	96:4;100:21;144:24;	10:16;15:10;18:17;
development (1)	57:14	103:14;110:20;	146:14	28:3;29:12;37:11;
128:20	ditch (1)	111:8,13;112:6;	during (5)	39:1;56:19;58:15;
dialogue (1)	23:8	115:18;132:10;	38:18;59:5;95:22;	90:4;99:23;100:17;
52:23	ditches (1)	148:18;158:4	100:22;143:18	108:16;115:12;
	113:8		100.22,143.18	
diameter (5)		down (22)	Ε	126:19;128:23;
24:3;39:1,15;69:2,	document (9)	24:5;29:6;38:8;	E	137:22
6	47:3,8;49:4,6;93:5;	39:15,16,18,19;44:3,		elaborate (1)
die (1)	125:22;127:18;	6;50:7;57:16;65:6,	earlier (35)	139:11
47:16	136:3;158:21	16;72:2;87:13,14;	22:16;36:2;42:20;	electric (2)
diesel (2)	documentation (1)	90:2;106:6;134:6;	51:11,16;56:10;	59:18;147:18
83:8,18	10:10	146:20;151:4;152:24	59:22;65:13;67:20;	Eleven-foot (1)
different (12)	documents (6)	downtown (1)	82:17;102:12;	95:12
40:21;41:6;49:1;	111:21;112:22;	33:9	109:14;110:21;	ELMO (3)
57:1;64:23;66:22,22;	114:13;115:10;	draft (3)	111:4;121:2;132:19;	27:3,14;135:1
125:13;127:22;	130:1,7	123:14;124:16;	133:24;135:17;	embankments (1)
129:20;139:20;	done (16)	125:18	138:10,16;140:5,11;	28:2
151:24	10:7;31:15;34:5;	drainage (7)	144:17;146:2;150:6,	employ (2)
differential (1)	38:2;39:3;41:4;	8:1;15:11,12;56:1;	15,20;151:18;154:2,	36:22;37:24
41:6	44:23;63:4;64:9;	62:12;103:19;113:7	3;155:17,21;156:18;	enabled (1)
difficult (1)	68:15;97:5;104:20;	draw (2)	157:6,24	32:9
107:23	111:17;117:9,15;	27:22;78:1	earnest (1)	enclosed (1)
dig (3)	154:7	drawing (11)	36:7	128:4
39:15,16;57:5	DOT (136)	71:6,16;72:12,14,	Earth (1)	enclosure (3)
digest (1)	5:21;6:16,17,23;	18,19;73:8;84:2;	23:23	92:22;93:10,12
21:5	7:3,18;8:20,21;9:6,8,	94:5;98:8,9	easier (4)	encountered (1)
digging (2)	14;10:3,10;11:7,24;	drawings (10)	58:9,13,24;101:2	147:20
37:15;58:18	12:9;14:22;16:14;	8:8;17:5;35:24;	Easton (7)	end (5)
diligence (1)	17:6,8,21;18:6,8,11,	36:9;40:16;50:11;	16:18,21,22;72:9;	50:3;51:14;68:5;
132:5	18,18,21;20:2,5,15;	126:3,8;133:8;156:3	90:2;97:24;98:6	146:20;150:18
diligently (1)	21:22;22:15;24:13;	drawn (2)	Easton/Woodstock (1)	ends (2)
90:19	25:10,12;26:6,11;	28:14;74:11	84:24	68:8,20
direct (2)	29:10;30:8;31:4;	drill (8)	easy (1)	energy (2)
5:8,13	32:1,6,8,19;33:1;	39:8,11;41:18,23;	127:1	140:20,22
directional (6)	34:18;35:14,18;36:6,	42:6;60:10;78:20;	economic (1)	Engineer (5)
15:4,6;21:16;	9;40:11;41:8;42:20;	89:3	41:4	19:5,8,16;146:22;
41:18,23;42:6	45:11;46:9;49:8,20;	drilling (8)	edge (21)	147:3
directly (1)	50:2,7,24;52:18,20;	40:9;42:1;60:4,6;	10:24;13:9,21,24;	engineers (2)
94:12	53:10,23;58:4;80:2;	61:2,7;78:4;90:14	15:17;28:12,22;	21:18;23:17
Director (2)	83:1,15,20;90:22;	drillings (2)	36:16;37:3,4;43:6;	enhance (1)
19:1,3	94:18,22;101:11,18,	60:5;91:23	69:10,11;70:7;82:8;	11:4
disagree (1)	23;102:9;106:19;	drills (4)	90:23;116:10;118:2;	enhanced (1)
43:8	107:14;108:15;	15:4,6;21:16;78:9	120:21;155:8,9	34:22
discuss (1)	109:3,8;111:3,11,23;	Drive (1)	edges (2)	enhancement (1)
116:8	113:11,15,24;114:5,	70:9	15:16;117:23	136:19
discussed (8)	22;115:8,12,23;	driven (1)	educated (1)	enhancements (1)
7:18;26:5;30:6;	116:1,11,21;117:3,5,	98:18	133:1	130:22
51:10,16;67:20;	21;118:1,5;119:21,	driveway (6)	effect (1)	enough (11)
144:21;155:17	23;120:15;121:22;	80:17;82:12;83:4;	157:19	10:15;15:13;54:18;
discussing (3)	123:3;124:1,5;	88:17;94:13,17	Effectively (5)	55:3;85:19;86:16;
	1		1	i la

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(5) determinations - enough

#### DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEA	ARING	r		September 29, 2017
00.4.112.12.115.2.	(2)24,(4,2.7)	71.10.72.17.75.22.	97.2 10 22.99.14 14.	forton (5)
90:4;113:13;115:3;	62:24;64:3,7;	71:19;73:17;75:23;	87:3,10,23;88:14,14;	faster (5)
127:1;129:24	67:23;95:19	76:8;77:5,6,11,23;	89:17,19;90:16;91:9,	32:11;33:15,20,23;
ensure (3)	estimates (5)	78:24;79:2,21;80:2,	14;155:18	35:6
26:22;148:17;	65:22;146:1,15,23;	14,15;81:15,24;	expect (1)	favor (1)
153:11	147:1	84:23;85:4,12,24,24;	21:16	153:20
entire (7)	estimation (2)	86:6,19;87:16;89:14;	expectation (3)	feature (2)
7:2;11:13;68:13;	9:12,13	92:18;93:1,9;94:4,6;	26:20;131:20;	8:2;22:22
83:19;101:21;104:1,	evaluate (1)	95:15;101:11;	133:13	features (3)
19	32:23	106:20,23;107:3,12;	expecting (1)	27:22;29:2;31:2
entrance (1)	even (2)	116:8;121:10;	36:8	February (3)
84:3	149:16;158:15	132:17,18,21;133:4,	expects (1)	36:10;125:18;
entry (34)	eventually (3)	11,11,14;135:15;	63:8	129:8
60:11,16;61:17;	52:8;105:6;124:5	137:4,7,13,14;	expertise (1)	federal (1)
69:1,11,24;70:19;	everybody (2)	138:19,23;141:11,12;	113:4	134:10
71:2;72:9,12;73:18;	43:4;133:24	143:12;144:8,18;	explain (10)	feel (1)
79:5,15;80:7,16;82:1,	everybody's (1)	145:5,11,14,20,24;	13:3,16;14:11;	113:12
4;83:3,11;84:14;	127:12	146:3,5,8,17,18;	15:24;22:11;23:1;	feet (51)
85:5,8;86:10,13;87:3,	everyone (2)	147:8;148:5,21;	27:12,17;31:5;	15:7;23:11,15;
6,7,22;88:4;89:16;	5:3;149:24	150:5,12,21;152:5;	116:16	28:16;30:1;33:4,6;
90:15;91:9,14;	evidence (5)	155:16;157:9,17	explained (1)	36:15;37:2,12,20;
155:18	5:24;7:8,20;113:8;	exceptions (20)	36:17	40:17;61:13;69:2,5,9,
environment (1)	154:5	14:4;46:2,8,13,18;	explaining (1)	16,19;71:1,9,10,12,
13:10	evolution (1)	47:14;48:2;51:9;	27:4	17;74:2,9,18;75:8,20;
environmental (1)	49:19	52:1;53:4;61:2;	expressed (1)	78:12,16,16,19;82:9,
81:19	exact (2)	65:21;91:24;92:2;	109:4	14;85:10;88:20;89:2,
equals (1)	35:19;154:24	101:5;103:3;117:19;	extend (2)	8;93:2,15,18,20,24;
21:12	Exactly (3)	144:11;148:10;149:5	39:10;88:23	94:23;99:17,18;
equipment (3)	66:24;100:11;	excluding (3)	extends (1)	113:21;122:7,9,12,15
60:6;61:16;97:11	153:4	138:5,8,13	90:22	felt (2)
error (4)	examination (2)	excuse (1)	extra (1)	94:22;129:10
72:21;73:9;152:16;	5:8,13	144:23	37:12	few (6)
153:14	example (6)	executed (1)	extreme (1)	21:4;36:14;53:6;
errors (1)	30:3;77:5;113:20;	129:17	<b>extreme (1)</b> 140:24	54:9;60:9;84:19
<b>errors (1)</b> 153:9	30:3;77:5;113:20; 146:15;147:11;	129:17 executive-level (1)	140:24	54:9;60:9;84:19 field (12)
errors (1) 153:9 escalated (1)	30:3;77:5;113:20; 146:15;147:11; 148:22	129:17 executive-level (1) 6:22		54:9;60:9;84:19 <b>field (12)</b> 8:3,8;9:11;11:12;
errors (1) 153:9 escalated (1) 7:6	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3)	129:17 executive-level (1) 6:22 exercise (2)	140:24 F	54:9;60:9;84:19 <b>field (12)</b> 8:3,8;9:11;11:12; 28:5,9;29:14;30:3;
errors (1) 153:9 escalated (1) 7:6 essence (2)	30:3;77:5;113:20; 146:15;147:11; 148:22 <b>examples (3)</b> 17:24;84:19;89:23	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19	140:24 F facilities (7)	54:9;60:9;84:19 <b>field (12)</b> 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8;
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4)	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45)	140:24 F facilities (7) 15:13;40:23,24;	54:9;60:9;84:19 <b>field (12)</b> 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9;	140:24           F           facilities (7)           15:13;40:23,24;           59:8;114:9;140:17;	54:9;60:9;84:19 <b>field (12)</b> 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 <b>field-visited (1)</b>
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17;	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2)	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19;	Id:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10	54:9;60:9;84:19 <b>field (12)</b> 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 <b>field-visited (1)</b> 23:24
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22;	140:24 <b>F</b> <b>facilities (7)</b> 15:13;40:23,24; 59:8;114:9;140:17; 143:10 <b>facility (2)</b>	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2)	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7;	Item       Item         facilities (7)       Item         15:13;40:23,24;       59:8;114:9;140:17;         143:10       Item         facility (2)       58:7;137:16	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18;	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18;	Item       Item         facilities (7)       Item         15:13;40:23,24;       59:8;114:9;140:17;         143:10       Item         facility (2)       58:7;137:16         fact (5)       Item	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9,	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2)	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21;	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13;
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23;	Id:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17;
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2)	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16;	Item       Item         facilities (7)       Item         15:13;40:23,24;       59:8;114:9;140:17;         143:10       Item         facility (2)       58:7;137:16         fact (5)       46:20;49:7,12;         55:6;97:9       factored (1)	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8;
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23;	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15;	Item       Item         facilities (7)       Item         15:13;40:23,24;       59:8;114:9;140:17;         143:10       Item         facility (2)       58:7;137:16         fact (5)       46:20;49:7,12;         55:6;97:9       factored (1)         23:9       23:9	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143)	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20;	Item       Item         facilities (7)       Item         15:13;40:23,24;       59:8;114:9;140:17;         143:10       Item         facility (2)       58:7;137:16         fact (5)       46:20;49:7,12;         55:6;97:9       factored (1)         23:9       fair (2)	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8,	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19;	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14,	129:17 <b>executive-level (1)</b> 6:22 <b>exercise (2)</b> 148:2;154:19 <b>Exhibit (45)</b> 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23;	Item       Item         facilities (7)       Item         15:13;40:23,24;       59:8;114:9;140:17;         143:10       Item         facility (2)       58:7;137:16         fact (5)       46:20;49:7,12;         55:6;97:9       Item         factored (1)       23:9         fair (2)       44:19;148:9         fairly (3)       1000000000000000000000000000000000000	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14;	129:17 <b>executive-level (1)</b> 6:22 <b>exercise (2)</b> 148:2;154:19 <b>Exhibit (45)</b> 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4;	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7,	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20;	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1)	Image: red state in the system is a constrained with the system is c	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3;
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17;	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17; 27:20;29:4,9;31:7;	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1)	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18;	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17; 27:20;29:4,9;31:7; 32:22,24;35:1,14,22;	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12	Image: red state in the	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17; 27:20;29:4,9;31:7; 32:22,24;35:1,14,22; 36:5,18;38:11;48:10,	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7)	Image: 140:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17 estimate (9)	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17; 27:20;29:4,9;31:7; 32:22,24;35:1,14,22; 36:5,18;38:11;48:10, 17,20;49:8;50:10,12,	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7) 55:21;62:12;102:7;	Item         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;         28:21;37:12;39:7,12;	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3) 45:13;125:10;
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17 estimate (9) 44:18;61:24;64:12,	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17; 27:20;29:4,9;31:7; 32:22,24;35:1,14,22; 36:5,18;38:11;48:10, 17,20;49:8;50:10,12, 15;51:11,16;52:3,7,	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7) 55:21;62:12;102:7; 107:5,15;150:11;	Id:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;         28:21;37:12;39:7,12;         43:16;51:14;74:9,16,	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3) 45:13;125:10; 152:4
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17 estimate (9) 44:18;61:24;64:12, 23;71:10;110:17;	30:3;77:5;113:20; 146:15;147:11; 148:22 examples (3) 17:24;84:19;89:23 excavate (4) 96:8,14,18;97:11 excavating (2) 58:16,18 excavation (2) 34:11;96:10 excavator (2) 37:10,14 except (2) 137:6;157:20 exception (143) 5:20;6:18;12:1,3,8, 14,18;13:19;14:14, 22;15:2;16:4,14; 17:7,10;18:9,20;20:7, 11;21:11,14;22:20; 25:10,13;26:15,17; 27:20;29:4,9;31:7; 32:22,24;35:1,14,22; 36:5,18;38:11;48:10, 17,20;49:8;50:10,12, 15;51:11,16;52:3,7, 20;53:1,11;58:1;	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7) 55:21;62:12;102:7; 107:5,15;150:11; 152:6	Id:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;         28:21;37:12;39:7,12;         43:16;51:14;74:9,16,         22;75:13;102:6;	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3) 45:13;125:10; 152:4 finite (1)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17 estimate (9) 44:18;61:24;64:12, 23;71:10;110:17; 126:12;146:19;	$\begin{array}{c} 30:3;77:5;113:20;\\146:15;147:11;\\148:22\\ examples (3)\\17:24;84:19;89:23\\ excavate (4)\\96:8,14,18;97:11\\ excavating (2)\\58:16,18\\ excavation (2)\\34:11;96:10\\ excavator (2)\\37:10,14\\ except (2)\\137:6;157:20\\ exception (143)\\5:20;6:18;12:1,3,8,\\14,18;13:19;14:14,\\22;15:2;16:4,14;\\17:7,10;18:9,20;20:7,\\11;21:11,14;22:20;\\25:10,13;26:15,17;\\27:20;29:4,9;31:7;\\32:22,24;35:1,14,22;\\36:5,18;38:11;48:10,\\17,20;49:8;50:10,12,\\15;51:11,16;52:3,7,\\20;53:1,11;58:1;\\62:7;63:8,12,19;\\ \end{array}$	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7) 55:21;62:12;102:7; 107:5,15;150:11; 152:6 exit (18)	Id:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;         28:21;37:12;39:7,12;         43:16;51:14;74:9,16,         22;75:13;102:6;         115:3;157:18	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3) 45:13;125:10; 152:4 finite (1) 133:9
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17 estimate (9) 44:18;61:24;64:12, 23;71:10;110:17; 126:12;146:19; 147:11	$\begin{array}{c} 30:3;77:5;113:20;\\146:15;147:11;\\148:22\\ examples (3)\\17:24;84:19;89:23\\ excavate (4)\\96:8,14,18;97:11\\ excavating (2)\\58:16,18\\ excavation (2)\\34:11;96:10\\ excavator (2)\\37:10,14\\ except (2)\\137:6;157:20\\ exception (143)\\5:20;6:18;12:1,3,8,\\14,18;13:19;14:14,\\22;15:2;16:4,14;\\17:7,10;18:9,20;20:7,\\11;21:11,14;22:20;\\25:10,13;26:15,17;\\27:20;29:4,9;31:7;\\32:22,24;35:1,14,22;\\36:5,18;38:11;48:10,\\17,20;49:8;50:10,12,\\15;51:11,16;52:3,7,\\20;53:1,11;58:1;\\62:7;63:8,12,19;\\64:11,14,22;65:3,4;\\\end{array}$	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7) 55:21;62:12;102:7; 107:5,15;150:11; 152:6 exit (18) 60:11,17;61:18;	Id0:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;         28:21;37:12;39:7,12;         43:16;51:14;74:9,16,         22;75:13;102:6;         115:3;157:18         farther (1)	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3) 45:13;125:10; 152:4 finite (1) 133:9 firmly (1)
errors (1) 153:9 escalated (1) 7:6 essence (2) 35:1;130:10 essentially (3) 68:13;110:17; 117:19 establish (10) 7:4;9:10;10:18; 115:3;117:6;129:4,9, 15;130:4,9 established (4) 7:17;12:5;117:23; 130:3 establishing (1) 11:20 establishment (1) 116:10 Estate (3) 16:20;75:4,12 Esterberg (5) 18:24;19:18; 124:16;158:14,17 estimate (9) 44:18;61:24;64:12, 23;71:10;110:17; 126:12;146:19;	$\begin{array}{c} 30:3;77:5;113:20;\\146:15;147:11;\\148:22\\ examples (3)\\17:24;84:19;89:23\\ excavate (4)\\96:8,14,18;97:11\\ excavating (2)\\58:16,18\\ excavation (2)\\34:11;96:10\\ excavator (2)\\37:10,14\\ except (2)\\137:6;157:20\\ exception (143)\\5:20;6:18;12:1,3,8,\\14,18;13:19;14:14,\\22;15:2;16:4,14;\\17:7,10;18:9,20;20:7,\\11;21:11,14;22:20;\\25:10,13;26:15,17;\\27:20;29:4,9;31:7;\\32:22,24;35:1,14,22;\\36:5,18;38:11;48:10,\\17,20;49:8;50:10,12,\\15;51:11,16;52:3,7,\\20;53:1,11;58:1;\\62:7;63:8,12,19;\\ \end{array}$	129:17 executive-level (1) 6:22 exercise (2) 148:2;154:19 Exhibit (45) 8:19;16:1;21:2,9; 22:22;25:17;27:19; 30:12;35:8;37:22; 46:7,10;47:1,7; 51:23;53:17;63:18; 67:11,12;77:4;80:21; 81:4;82:23;83:23; 85:23;86:19;87:16; 92:9,17;94:4;95:15; 106:18,22;107:11,20; 111:2;118:9,19; 122:24;127:23; 133:23;136:5;140:4; 150:2;154:21 exhibits (1) 156:17 exist (1) 155:12 existing (7) 55:21;62:12;102:7; 107:5,15;150:11; 152:6 exit (18)	Id:24         F         facilities (7)         15:13;40:23,24;         59:8;114:9;140:17;         143:10         facility (2)         58:7;137:16         fact (5)         46:20;49:7,12;         55:6;97:9         factored (1)         23:9         fair (2)         44:19;148:9         fairly (3)         133:7,17;148:15         falling (1)         100:12         familiar (3)         42:22,24;134:1         far (16)         18:19;21:23;23:13;         28:21;37:12;39:7,12;         43:16;51:14;74:9,16,         22;75:13;102:6;         115:3;157:18	54:9;60:9;84:19 field (12) 8:3,8;9:11;11:12; 28:5,9;29:14;30:3; 129:17;130:8; 147:20;154:7 field-visited (1) 23:24 fifth (2) 35:10;147:10 filed (12) 14:21;16:4,13; 29:5,9;45:10,17; 46:9;51:11,17;137:8; 156:6 filing (2) 51:8;144:7 fill (2) 27:4;102:1 final (6) 40:6;46:3;60:3; 125:20;126:2;137:19 finalize (1) 126:1 find (3) 45:13;125:10; 152:4 finite (1) 133:9

**first (32)** 7:14:10:5:21:8: 22:10;32:24:33:15: 36:3;47:2;52:2,17,19, 21:62:10.15:77:12; 80:20;91:7,10;95:16; 104:24;106:18; 107:2;110:4;118:21; 119:5,10;121:14; 127:17:148:24; 149:20;150:4;151:12 five (4) 22:24;96:6,20;97:5 flat (1) 17:9 flip (1) 150:8 flowable (1) 16:7 fluidized (4) 34:16:57:19:101:2; 150:21 focus (8) 5:18,21,23;7:23; 24:8,19;28:19;35:10 focuses (2) 7:13;25:24 focusing (2) 25:7;37:22 folks (2) 19:21:21:5 followed (1) 143:19 following (3) 107:4;133:3; 136:21 follow-up (2) 121:1;154:1 foot (3) 29:17:37:17:42:5 footprint (1) 33:9 forest (2) 16:17;122:8 Forests (1) 127:11 forgive (1) 132:24 form (9) 123:19;124:1,5,7, 8;125:7;158:2,3,3 formal (2) 52:21:150:5 formally (1) 9:20 format (2) 47:24;48:1 former (1) 139:1 forth (9) 9:15.19:18:18.19: 35:16:52:24:140:15; 149:22;156:16

forward (5) gave (1) 10:2:11:7:25:14: 23:14 27:21:157:5 foundation (1) 41:7 foundational (2) 7:20:154:5 foundations (1) 40:22 four (8) 11:14;34:24;68:5; 76:7,7;78:8,11;140:9 fourth (2) 140:6;149:17 fowl (1) gets (4) 137:1 frame (3) 11:23;36:10;76:11 Franconia (7) given (2) 16:22;38:20;67:15, 23:68:10:90:1:98:6 goes (12) Frazier (19) 42:16,18;51:22; 95:5,9,11;100:17; 123:3,9,18;124:2; 125:17;126:6,11,14; Good (5) 157:24;158:7,13,21 front (19) 9:24;51:22;62:6; 63:17:67:10:77:3; 23:23 79:9:82:5.21:84:3. 15:94:13.17:106:17: 135:3 118:10.18:122:23: **GPS** (1) 130:15.20 42:3 grant (1) FTB (15) 16:7;101:3,5,8,24; 13:22 102:11,15,18;103:24; 104:3,7,8;106:5,7; 150:23 full(7)71:8;97:22;123:22; grass (3) 125:12,15:126:2,8 full-blown (1) 158:5 fully (1) 155:19 further (9) great (1) 17:11,14;31:5; 135:1 37:16;54:5;79:20; green (3) 130:9;152:19;158:23 future (5) 32:24:40:19:58:5: 103:16:141:14 G group (5) Gale (2) 38:19;39:2 garden (1) 48:4 114:19 gas (7) 48:2 82:6,15,19;83:4, 12;84:3,12 9:12

growing (1) 139:14 general (10) 12:23:16:6:23:17: 32:12:35:2:65:24; 78:21:98:2:139:13: 144:14 generally (7) 13:3;14:24;38:14; 54:7,12:58:23; 135:16 generate (3) 131:10.13.16 gentlemen (2) 42:16;51:22 96:22;121:6,8; 147:21 8:6;157:3 15:6:46:20:47:21: 63:7;68:3;87:13,14; 88:5:116:16:122:3: 123:19;155:14 5:3;33:14;42:16; 51:21:127:9 Google (1) government (1) granted (9) 29:10:63:8.13: 64:22;65:8;103:4; 145:12,15,20 74:22:75:13,17 gravel (10) 102:8,9,16,23; 104:9;105:1;106:4,9, 12;151:5 72:4;79:11;80:9 ground (8) 57:5:59:12:78:13: 128:10,22;129:1,7; 130:13 9:21;47:9;48:20; 49:1;130:17 grouping (1) groupings (1) group's (1)

#### guardrail (2) 87:10:93:7 guardrails (1) 15:16 guess (3) 32:5:133:1.19 guesstimate (1) 133:1 Η habits (1) 47:16 half (3) 17:19;18:13;21:24 Hampshire (14) 59:10,20;103:8,11; 127:11;134:10; 141:20;142:3,5,7,10, 15.19:152:24 Hanscom (1) 19:4 happen (2) 39:8;146:4 happened (1) 132:8 happens (1) 98:3 happy (2) 140:12;145:23 hard (3) 47:16;60:16;84:7 hardship (1) 141:1 hay (4) 28:5,9;29:14;30:3 HDD (37) 29:4:39:5.17:60:4. 5;61:2,7,11,14;77:2, 14:78:4.10.15.20: 79:5,8:81:7:82:1,4,9: 84:20;85:5,10;86:3; 87:19;88:5;89:12,24; 90:3,13;91:18,23; 119:2,4;155:12,13 HDD/microtunnel (1) 60:20 HDD-related (1) 86:23 head (6) 55:12;79:19;100:1, 3,9,16 hear (1) 131:21 heard (3) 45:24;135:10; 144:6 Hearing (3) 42:23;76:19;159:5 help (4) 26:22;36:22;130:8;

**DAY 42 - MORNING SESSION ONLY** September 29, 2017

> 158:3 hereby (1) 107:3 herein (1) 135:6 high (2) 31:9:46:22 higher (3) 33:17;135:5,6 highest (1) 153:1 highlight (1) 128:6 highlighted (4) 124:15;128:2; 135:2;152:11 highly (1) 75:19 highway (5) 12:23;45:6;59:23; 101:20;105:10 highways (2) 104:22;136:2 Hill (4) 16:21,22;39:20; 97:17 hired (1) 109:19 historic (6) 10:17:26:2:112:14, 20:130:5:137:1 historical (2) 10:8:111:21 hole (3) 91:16:96:14,14 holes (1) 96:16 home (6) 79:24;82:19;83:8, 14:84:11:94:13 **HONIGBERG** (21) 5:2:30:19:42:10; 47:12,17;51:1;76:15, 20;108:2,7;126:18, 24;127:5;141:7,17, 21;142:4,12,17,23; 158:24 hope (1) 36:18 hoping (1) 73:14 house (6) 89:21:90:6:113:21; 114:2;140:23;143:2 hundred (2) 59:16;132:17 hypothetical (1) 122:13 hypothetically (2) 122:6,8 Ι

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(7) first - hypothetically

#### DAY 42 - MORNING SESSION ONLY September 29, 2017

I-93(1) 39:11 **IACOPINO (2)** 31:18:136:9 Ideally (1) 99:14 identified (8) 8:22;10:14;84:13; 138:9;143:2;144:1,4; 147:23 identify (3) 112:5;113:4; 137:21 illustrating (1) 147:6 impact (24) 8:17;22:3;23:1,3,4; 29:1;33:19;35:4; 38:8;41:4;56:18; 57:14,21;118:23; 119:17,23;120:6,12; 122:11.16:138:19: 140:8;152:20,23 impacted (5) 121:4,5,20,24; 122:5 impactful (1) 73:15 impacting (7) 24:6:30:9:34:11; 35:22;120:23; 122:19:155:10 impacts (32) 22:5,7;24:21;25:5, 9,14;26:14,23;27:8; 30:7;32:12;35:11,21; 36:19.23:37:17.23; 38:4,17;39:23;51:13; 81:14;123:22; 135:13,13,15,21; 138:13;139:3,6,7,8 impair (1) 138:24 important (1) 22:22 importantly (1) 40:18 impose (1) 134:18 imposed (1) 34:18 improve (1) 38:16 improvements (2) 17:17;32:4 inaccuracies (2) 6:1;7:8 inaccuracy (1) 109:5 inaccurate (2) 108:18:109:10 inches (7) 24:3;102:4,5,20,

21;139:15;140:9 inclines (1) 15:15 include (7) 11:16:43:14:48:4; 118:23;119:2,5; 120:12 included (1) 14:14 includes (2) 16:22;136:22 including (4) 7:3;40:15;96:10; 132:12 incorporated (2) 8:7;132:21 incorrect (4) 8:11;60:8;101:13; 123:18 increase (2) 146:12,16 increased (1) 141:15 independent (1) 38:10 indicate (3) 64:21;67:5;83:7 indicated (8) 56:10;107:15; 108:16:111:16.19; 112:3;117:8;125:2 indicates (16) 46:7,17:52:2; 53:11;63:22;64:2; 67:21;69:1,16,23; 78:3;79:4;80:15; 94:8;123:13;124:15 individual (4) 112:17;133:11; 144:18:145:24 individually (1) 139:18 industry (1) 135:3 information (27) 5:19;7:5;8:11; 10:16;12:7;14:18; 17:12,14;23:19; 38:20;51:20;54:5; 112:16;113:13; 114:24;129:14; 131:4,13,16,18; 132:6;146:9;150:17; 152:14,19;157:19,23 informed (1) 157:15 infrastructure (1) 140:21 initial (9) 17:7;43:11,22; 44:1,21;105:14; 135:20;155:22; 156:12

initially (1) 44:10 input (1) 40:12 inside (5) 15:18;114:5; 119:19,21;120:11 install (9) 93:21;94:16;95:20; 96:3,9,19:99:10; 100:5;155:9 installation (6) 13:6;43:3;63:1; 64:4;96:2;143:9 Installations (2) 136:1;140:20 installed (2) 94:12;100:19 instance (13) 8:1;17:24;44:20; 48:9:56:1,17:78:8; 102:13:105:12: 113:22;114:16; 145:12;151:13 instances (9) 8:1,5,12;32:9;56:5; 66:4;67:6;90:6;110:8 instead (4) 39:6;101:9;104:6; 151:2 institutions (1) 140:20 integrity (2) 101:19.20 intend (1) 99:10 intention (1) 138:18 intents (1) 70:6 interactions (2) 11:7:31:3 intercept (1) 39:17 interest (1) 19:12 interested (1) 92:10 interfere (3) 80:8;83:12,13 interim (1) 34:8 interpretation (6) 115:17,18,22; 116:22;117:4;129:23 intersection (14) 39:12;40:4;68:11; 70:5,23;71:22;72:3, 13;73:2,3,6;75:2; 76:4:84:18 intertwined (1) 12:3 into (21)

8:7:9:11:18:17; 23:7;30:9;47:9; 48:24;60:15;72:3; 74:22:75:13.17:78:3: 90:2;96:22;103:21; 127:22;128:19; 132:21;137:11,16 introduce (1) 7:1 invasive (1) 39:6 investing (1) 153:1 involve (1) 76:3 involved (1) 57:13 involves (5) 55:20;62:10;75:24; 77:14;86:3 iron (1) 130:8 issue (4) 40:7,11;49:23;59:4 issued (4) 9:5;36:11;41:13; 53:11 issues (8) 6:5,14;7:6;9:2; 10:3;28:21;33:21; 144:2issuing (1) 129:21 item (4) 33:11:34:15:107:2; 111:24 items (3) 19:11;32:18;112:4 iteration (1) 149:19 iterations (1) 149:22 iterative (8) 17:20;18:4;31:24; 32:5;34:12;38:14; 125:21;148:13 J Johnson (483) 6:3.8.12.15:7:13: 8:21.23:9:3.7:10:4. 21;11:10,12;12:2; 13:1,5,18;14:6,13,23; 15:3;16:2;17:9,18; 18:10,23;19:24;20:2, 8,20,24;21:10;22:12; 23:5;24:13;25:1,6,10, 23;26:4,9,11,24;27:9, 11,18;30:17;31:6,12; 32:5;33:14;34:15; 35:3,18;36:2;37:1,7; 38:5,7,12,23;40:1,12;

41:3,10,17;42:1; 43:9:44:19:45:1.14. 15,20;46:5,6,11,15, 19.22.24:47:4.20: 48:3,7,12,15,18,22; 49:3,11,13,17;50:1,5, 18,21;51:7,10,21; 52:5,10,16,21:53:5,9, 13,19,22;54:4,6,11, 16,21;55:1,5,8,12,17, 24;56:4,9;57:24; 59:21;60:2,8,23;61:3, 9,11,22;62:3,6,9,14, 18,22;63:2,6,11,16, 21;64:1,6,10,16,20; 65:2,9,18;66:2,14,16, 24;67:4,9,10,13,16, 18;68:2,7,9,14,17,24; 69:4,7,13,18,21;70:2, 6,10,12,17,20,24; 71:4,8,11,14,24;72:6, 11,17,21,24;73:4,7, 10,20,24;74:4,10,14, 16,21,24;75:3,6,9,15, 18,22;76:2,6,13;77:1, 9,13,17,20,24;78:6, 14,18,23;79:3,7,11, 13,18,22;80:1,4,10, 19;81:2,5,9,12,22; 82:3,8,11,16,20,21; 83:6,10,16,21;84:1,5, 9.13.17.21:85:2.7.12. 16,21;86:2,5,8,12,17, 22,24;87:5,9,13,18, 20,24;88:3,7,11,16, 19,23;89:4,7,10,13, 18,22;90:8,17;91:12, 16,21;92:1,7,12,15, 20,23;93:6,14,17,22; 94:2,7,10,15,19;95:2, 9.17.21.24:96:5.12. 17,21;97:8,14,19,21; 98:2,10,15,22;99:3,8, 13;100:7,17,24; 101:7,10,13,15,17, 24;102:10,17,22,24; 103:23;104:3,12,15; 106:7,10,13,21; 107:1,9,13,18;108:1, 13,22,24;109:7,11, 15,23;110:3,7,11,14, 19.24:111:6.10.15. 18,22;112:1,9,12; 113:2;114:3,7,15,23; 115:5,16;116:4,14, 23;117:1,5,10,13,21; 118:5,12,20;119:1,3, 7,11,14,18,21;120:1, 5,10,15,18,20;121:8, 17,21;122:18;123:3, 5.8,11,16;124:6,9,12, 13,21;125:1,4,9,14; 128:11,17;129:3,23;

#### DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEARING				
130:14;131:6,14,19, 23;132:1,15,18; 133:7,16;134:11; 135:18;137:7,14; 138:4,7;139:1,6,13; 140:10,18;143:15; 145:1,3,8,21;146:7, 11,22;147:2,9,13,17; 148:6,12;149:3,7,10, 12,15,18;150:7,14, 19;151:1,3,14;152:9, 13,16,22;153:4,17; 154:8,11,13,17; 155:7,13;156:14; 157:6,11,14;158:10, 17 <b>jug (1)</b>	landscaped (3) 26:3;35:15;137:2 lane (29) 62:19,21;63:5,14, 14,23;64:8,13,24; 65:6,15,24;66:9,16, 20;67:6;71:6,8; 73:23;74:3,8;75:20; 94:23;95:8,22; 100:21;105:13,15,19 lanes (1) 113:6 language (2) 152:11;154:6 large (4) 34:11;57:9;97:10; 98:10			
148:2 July ( <b>4</b> )	larger (2) 9:21:65:20			
July (4) 53:2;123:7;151:20; 152:1 June (3) 5:15;32:18;65:14 jurisdictions (1) 148:15 Justification (1) 77:22	9:21;65:20 <b>last (15)</b> 6:14,24;13:20; 21:23;27:3;34:15; 41:17;42:2;49:8; 73:16;91:11;123:12; 132:8;143:18;145:13 <b>law (9)</b> 141:20;142:3,6,7, 10,15,19;143:1,11			
Κ	laws (1)			
Kayser (2) 100:10,11 keep (3) 13:12;18:3;74:2 keeping (1) 144:13 kept (1) 19:23 key (2) 32:18;34:24 kind (3) 113:8;125:21; 149:18 knew (2) 44:7,14 knowledge (4) 59:17;106:13; 143:4,8 known (2) 130:2;157:12 knows (1) 18:10	135:4 lay (2) 89:4;151:4 layer (3) 102:15;150:23; 151:7 layout (7) 23:17;111:24; 112:1,13,14,19,21 layouts (2) 10:11,17 lays (1) 13:18 lead (2) 17:16;114:20 leaf (1) 152:3 leafed (1) 152:17 learned (1) 50:12 least (2) 110:15,16 leave (1) 2155 1000 10			
L	21:5			
labeled (1) 8:2 land (3) 47:18;114:12,17 landowners (1) 113:1 lands (1) 136:18	led (1) 129:11 ledge (2) 87:7;89:5 left (4) 39:18;70:4,23;88:9 left-hand (1) 71:20 legal (1)			

134:22 length (1) 58:4 Lennart (1) 19:15 less (15) 24:3;32:13;33:19, 21:38:8:39:6:42:5: 55:17;64:19;73:14; 89:8:99:18:121:5.24; 139:15 lessen (1) 35:4 lessons (1) 50:11 letter (14) 7:17;8:20,21;9:4; 52:17,19;106:19; 111:4;127:19; 129:21;143:20; 150:3;151:20;152:2 letters (2) 53:10.15 level (19) 7:6;25:8;41:20; 69:9;78:16;104:5; 110:4,4,10,12,15,16; 151:7,8;152:7,15; 153:1,2,15 levels (1) 110:1 light (1) 35:13 likely (4) 20:22;30:15;36:9; 157:14 limits (3) 22:3,5;140:2 line (35) 21:22:23:1,2,4,8, 20;26:1;44:2;54:13; 56:15,15,16,21;57:4, 7;58:11,19,22;59:11, 15;66:6;74:7,10,11, 12;75:11;76:3,10; 82:14,16;91:11; 102:14;103:11; 110:17;114:14 lines (6) 7:22;43:2,3,5; 59:12,19 list (4) 50:19;136:21; 137:6;138:6 listed (1) 139:5 listing (2) 53:3;106:19 literally (1) 97:2 litigator (1) 47:18 little (5)

22:11:28:7:84:7; 127:14:146:21 living (1) 125:22 locate (3) 45:5,13;122:9 located (6) 37:14:59:19:80:17: 83:3;94:24;141:1 locating (1) 130:7 location (17) 20:22;41:22,24; 42:4;44:11;64:9,24; 69:24;94:8,24;97:7; 100:20;110:13; 128:9,15;129:1,7 locations (9) 20:18;40:10;60:21; 66:3,22;90:1;107:6; 128:22;130:12 long (10) 28:17;61:24;64:12, 23;89:9;99:4,17; 102:20;133:5;138:5 longer (7) 49:21,21;65:7,11; 67:7;145:19;146:13 longitudinal (5) 13:8;43:2;140:17, 19:143:10 look (43) 13:14,19:48:16; 49:8;52:2;62:15; 67:21;68:21;69:15; 70:3;71:20;72:7; 74:6;75:1;77:21; 79:20;81:13;84:2,7, 14;85:8,17;87:21; 88:8,12;89:19;91:8, 10:92:24:93:9: 111:20,23;112:7; 114:8;119:15; 133:21;139:18; 140:12;144:17; 145:23;147:7;149:7; 152:10 looked (12) 14:2,4,21;23:22; 24:1;49:13;50:7; 128:5:140:1,3,11; 150:14 looking (15) 7:20;10:23;74:11; 112:4,21;114:11; 126:19;136:4,16; 139:2;140:4;150:1; 151:15,24;154:4 looks (3) 28:14;71:16;79:14 lot (6) 10:13;23:24;88:9, 18;112:16;137:24

lots (1) 88:10 lowest (4) 152:7,15;153:2,15 low-value (1) 24:2 lunch (3) 122:2;159:1,3

#### Μ

main (5) 57:9,13,15,23;66:6 maintaining (3) 66:18;120:22; 139:23 Maintenance (4) 19:4,7;81:19; 103:16 major (1) 141:2 majority (2) 90:13;128:14 makes (1) 20:6 manage (1) 108:13 Management (10) 123:14,23;124:17, 19;125:12,15;126:1, 10:145:17:158:5 managing (1) 6:17 manicuring (1) 139:23 manner (1) 34:12 Manual (15) 12:22:14:9:20:9: 25:19:26:6.21:31:3: 42:21:133:22:134:1, 9,14,21;135:9;143:5 many (18) 16:3,4;33:14; 49:15:55:2,10,15: 67:1;71:9,10;98:18; 99:1,9;100:14;108:8; 127:13;144:1;150:11 Manzelli (21) 126:20;127:2,3,8, 10;134:4,7;136:14, 15;141:8,9,19;142:1, 9,16,21;143:7; 151:16,23;153:19,24 map (1) 24:13 maps (1) 11:17 March (1) 125:19 marked (2) 147:4:154:20 markings (2)

**Min-U-Script**®

DAY 42 - MORNING SESSION ONLY September 29, 2017

74:14:75:11 material (1) 150:22 math (1) 24:22 Matthew (1) 19:16 mature (3) 28:11;30:5;140:3 may (18) 13:22;14:18;19:21; 29:19:33:17:35:21; 39:4;51:18;52:17,19; 57:24;65:13;76:21; 97:10;133:10; 137:21;147:20;150:3 maybe (2) 50:3;56:23 mean (10) 52:6;58:24;64:7; 71:15:96:9:112:23; 114:4:145:17: 147:16:148:23 meaning (1) 158:3 means (7) 7:2;28:18;58:14; 62:19;104:19;113:3; 130:12 meant (5) 23:2;112:10;115:7; 139:11:155:5 measure (2) 71:14:74:17 measures (1) 14:17 measuring (3) 74:24:75:15.18 meet (4) 6:23;9:13;18:11; 118:6 meeting (11) 6:24;9:16,17,19; 32:17,20;123:4; 125:8,10;130:22; 154:10 meetings (7) 18:8,22;19:1,23; 20:3;109:3,5 meets (1) 148:17 Melodie (3) 18:24;19:17;20:12 members (2) 19:18;77:1 memo (3) 111:3;124:18; 128:4 memorandum (1) 123:24 memory (1) 135:23 mentioned (2)

36:2:139:10 Meridian (3) 109:21,24;111:12 merit (1) 52:24 **MERRIGAN**(1) 118:15 met (3) 129:8;148:19; 149:24 metal (1) 8:2 metes (1) 10:12 method (2) 38:1;65:11 methodology (2) 66:7;73:15 methods (2) 7:2;36:21 microphone (1) 27:16 microtunnel (3) 38:24;67:15;68:22 microtunneling (7) 67:22;68:4,12; 76:1,5,12;119:5 mid-2015 (1) 156:8 middle (3) 72:8;74:7;84:17 might (7) 36:21:60:14:73:10; 90:6;105:13;141:14, 24 Mike (1) 19:2 mile (1) 38:8 mileage (1) 24:10 miles (26) 11:13;22:1,4,6,12, 14,17;24:16,21,22, 23;25:7,9;38:9; 43:14,16;51:15; 66:21;99:3;118:22; 119:12,16;120:4,8, 11:140:7 mind (1) 13:12 minimal (1) 57:21 minimize (2) 25:9;38:16 minimum (9) 40:16;78:16;90:22; 93:3,12,18;95:10,13; 130:19 minus (1) 48:18 minute (3)

24:19;116:24;

127:4 minutes (2) 21:4:36:14 mislabeled (1) 153:18 missed (1) 8:14 missing (4) 11:3;107:6;108:17; 150:11 misspoke (1) 82:17 mobile (5) 79:24;82:18;83:8, 14;84:11 moment (6) 13:12;17:3;35:11; 53:17;98:9,21 Monday (7) 9:24;117:13; 130:16,23;131:5,11, 12 month (5) 18:12;126:14; 133:3,12,19 monthly (3) 9:19;18:11,24 months (2) 50:5;132:7 monuments (2) 8:13:130:8 more (32) 7:20;17:19;21:21; 22:11;33:4;37:17; 38:13;40:17;46:1,17; 47:20;49:15;56:23; 64:19:67:19:73:4; 93:23;95:7;99:11; 103:18;104:16; 108:8,15:111:16; 121:3,20;122:4; 129:13:137:9; 144:19;152:18;154:4 morning (16) 5:3;42:16;46:6,10; 109:14;110:22; 111:16;112:3; 118:10;127:9,13; 131:1;138:1;140:5,5; 159:4 morning's (1) 135:11 most (20) 29:1;36:9;44:3,7, 16;45:10,20;55:6; 60:15;90:1;96:5,7, 13;97:5;98:22,24; 110:9,9;134:5; 157:14 Mountain (1) 122:7 move (15) 5:11;7:21;17:21;

18:2:20:13:29:15; 32:7:39:21:40:24: 90:24;96:20;105:23; 137:11:144:19:154:5 moves (3) 13:23;121:2; 122:15 moving (3) 33:4;40:23;48:19 Mrs (7) 42:16;51:22;95:4; 100:17;123:3,8; 158:14 much (17) 25:15;32:11,15; 33:20,23;35:6;37:24; 38:3;39:6;71:6; 79:14;84:15;98:11, 13,19;99:23;126:12 multiple (1) 143:18 municipally-maintained (1) 134:15 must (7) 40:17;58:2;91:9, 15;100:15;107:4; 118:5 Ν name (2) 127:9:158:2 narrative (2) 11:17:116:15 narrow (2) 37:19;89:9 narrower (2) 97:18.24 narrowness (1) 97:9 National (1) 122:8 natural (2) 102:16;136:19 nature (5) 15:11;16:6;38:15; 65:12;116:9 near (5) 13:8;16:20;43:14; 82:19;88:1 necessarily (6) 93:7:98:10.24: 112:19;114:4;138:7 necessary (2) 64:14;100:4 need (24) 7:11;37:12;39:7; 40:20;49:5,21;52:13; 69:8,19;75:7;78:2, 12:86:15:89:2:90:3: 92:2;93:2;102:23; 105:1;109:17; 118:13;126:2,7,13

needed (5) 78:4;89:7;96:23; 123:23:158:6 Needleman (29) 5:7,10,14;12:19, 21;14:7,10;15:21,23; 21:1,3;25:16,20; 27:10,15;30:22; 31:14,16,18,20,23; 35:7,9:42:8:51:2,3; 140:14;141:5;151:17 needs (8) 14:14;71:1;74:2; 78:15;82:9;89:20; 95:6;96:14 negative (1) 60:19 new (26) 5:24;7:7;38:20; 59:10,20;76:16; 103:8,10;117:15; 120:2:121:3:127:11: 131:4;134:10; 141:20;142:2,5,7,10, 14,19;143:1,4,9; 147:21;152:24 next (12) 9:24;11:14,15; 20:13;42:11;69:15; 70:13:71:18:93:24: 130:22:151:7.8 NH116(1) 72:9 NHDOT (2) 107:15:152:6 nighttime (1) 104:21 nine (1) 52:12 nodding (1) 134:6 none (1) 103:20 nonetheless (1) 58:8 non-mature (1) 139:14 non-scenic (2) 22:7;137:22 non-vegetated (1) 69:9 nor (1) 103:21 normal (4) 28:13;154:23; 155:3,5 North (7) 16:23;19:9;39:10, 15;43:16;84:8;97:17 Northern (12) 128:8,23;131:16, 18,21;132:24;133:3; 134:19;140:22;

**Min-U-Script**®

148:9:152:14,24 notations (1) 148:20 note (6) 17:2;26:16;73:12; 127:21:147:14.14 noted (9) 20:8;24:15;50:6; office (5) 58:2;73:11;76:8; 132:19:150:16:159:7 notes (1) 19:23 notice (1) 82:23 noting (1) 22:13 **NPT (2)** 63:8;125:2 **NPT's (1)** 124:18 nuance (1) 155:16 number (14) 31:19:40:6:46:20: 48:14;50:6;51:19,24; 53:6,10;55:18;65:20, 21;136:5;145:15 numbers (2) 47:9.10 numerous (1) 107:6 0

oath (1)

5:6**Objection** (1)

141:5

obstacle (1)

obstruction (2)

29:23:115:5

obstructions (3)

54:18

obtain (1)

112:24

obviously (7)

113:6;115:19;

116:7;120:21;

Occasionally (1)

113:5,9,19,23;

occupancy (6)

114:11,21

19:19

occurs (1)

46:4

October (5)

156:5

off (31)

9:24;75:4,12; 130:15,21 off-pavement (2) 35:11:36:13 offset (4) 23:10;93:6;104:17; 120:20 **Old (2)** 47:15;97:16 Oldenburg (1) 124:3 once (5) 34:5:41:18:101:21; 104:20.22 one (62) 6:23;12:14;13:12; 17:22,24;21:20;28:3, 15;30:11;33:24; 38:17;40:6;41:17; 47:21;48:5;50:21,22, 24;54:12;60:12,13, 18:63:14.23:66:17: 72:2,18,18;73:4,12; 74:2:80:6:88:10: 90:8:91:5.8.9.12.14. 14,16,17;92:1;95:22; 99:9,11,12,14,15,16, 23,24;101:8;109:8; 111:19;127:4;144:3; 145:13:149:16: 150:14;156:15; 157:12 one-lane (1) 97:12 ones (9) 90:11,12;155:2 15:14;17:19;20:11; 22:21;31:8;35:2; 52:22;157:15,22 one's (1) 64:18 one-way (2) 129:11:132:4:139:19 62:17;63:23 ongoing (1) 18:13 only (13) 11:16;32:7;50:7; 83:7;94:23;103:7,10; 119:22;128:15; 134:9;140:8;159:5,8 on-ramps (1) 45:10;125:6,8,10; 39:11 onto (4) 12:8;24:15;125:5; 7:21;18:3;23:7,10; 157:17 28:4;29:16;30:3; open (10)

43:5;54:19;55:3; 28:5,9:29:14:30:2; 60:7.12.17:71:22: 62:21;72:2;74:3; 79:18:85:10,15,19: 82:12:101:8:104:19 86:16;88:23;90:4,5, operation (3) 19;100:1,3,9,16; 76:1:81:20:100:22 115:4;122:12; operations (5) 13:11;19:2,3;32:8; 137:20;138:11 103:17 opinion (2) 83:20:153:7 opportunity (1) 29:20 opposed (1) 138:20 optics (1) 79:16 order (12) 5:17;6:10;74:2; 76:4;88:5;93:20; 105:20;112:5; 116:12;119:8;126:1, 0 orders (1) 135:4 original (7) 9:14;21:21;52:6; 72:1;104:3;145:16; 151:14 originally (4) 11:2:34:14:148:8: 151:12 ornamental (1) 139:19 others (1) 53:8 otherwise (3) 67:7:108:18; 144:12 out (22) 8:3,8;9:11;10:23; 11:13;13:18;19:22; 36:16:40:23;41:1; 45:13,13;50:16; 54:20;89:4;90:22; 115:11;119:12; 122:9,11;125:10; 140:1 outline (2) 14:15;130:18 outside (12) 22:2,4;71:7;91:17; 113:12.15:119:16.19: 120:6,13,24;140:7 over (21) 11:13;15:12;18:13; 21:23;27:13,24; 32:10;34:6;42:2; 55:22;56:3,7,13; 58:7;62:12;74:9; 89:2;100:12;103:6; 109:16.17 overhead (4) 143:13,19;144:9,

10 overlooks (1) 136:23 overnight (1) 16:10 own (5) 26:18;59:7;115:19, 20:132:5 owner (4) 6:20;114:16; 147:17,23 owner's (1) 148:18 Р Page (43) 12:20;13:15;14:8; 25:18;47:2,21;52:2, 11;69:13,15;70:13, 14;71:18,19;72:8; 73:16,17;79:1;80:20; 81:14,23;82:22; 83:22;85:3;86:6; 87:1,21;88:13;89:14; 91:7;92:9;93:8;94:3; 95:16:106:22; 107:10,19;111:1; 123:12;128:3; 140:12:147:10; 152:10 Pages (3) 13:13;43:1;150:8 panel (8) 5:5,9;43:8;77:1; 100:14;133:24; 154:15:156:9 Pappas (22) 42:11,12,15;47:13, 15,19,22;51:5,6;62:4; 76:21,22,24:108:3,5, 10.12:118:16.17: 126:16:144:21; 155:17 Par (1) 147:18 paragraph (4) 62:15;78:2;91:11; 111:7 parentheses (1) 148:23 park (5) 79:24;82:19;83:8, 14:84:11 parking (3) 88:9,10,18 parks (2) 26:3;137:2 part (30) 11:5:16:16.19: 21:21;25:24;26:5; 29:1;32:22,23;35:1; 44:3,7;45:11,20;

#### **DAY 42 - MORNING SESSION ONLY** September 29, 2017

57:24:60:15:62:10; 69:22:71:16:86:14: 103:3:104:1:144:16; 146:6;147:24; 148:13:151:20.24; 156:16;158:17 partially (2) 90:18:155:19 particular (17) 5:21:13:14:15:1; 26:12;27:12;52:24; 58:7:79:18:90:20; 91:3;97:21;98:3; 112:14,17;116:20; 128:6;129:12 particularly (1) 95:6 parties (1) 8:7 Pass (12) 128:8,23;131:16, 18,21;132:24;133:3; 134:19;140:22; 148:9:152:14.24 passed (1) 143:2 passing (1) 77:15 past (6) 59:24;70:9;88:17; 117:13:131:12:153:6 pasture (1) 28:6 path (2) 11:7;39:11 patience (2) 126:17:127:12 Pause (3) 122:22;127:6; 153:23 pave (1) 34:6 paved (4) 91:10,15,19;115:2 pavement (34) 10:24;21:15,17; 23:8;29:11;36:16; 37:4;54:14,15,20; 55:4,16;61:8,12,14; 62:11;66:5;68:22; 69:10;77:15,16;81:7, 8;82:14;85:10;86:4; 90:16;92:22;93:10; 113:22;118:22; 119:16;138:11;140:7 paving (1) 106:1 pay (1) 41:5 pending (3) 50:10;67:17,18 people (2) 104:17:125:22

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(11) notations - people

people's (1) 19:21 percent (2) 24:24:25:4 perform (1) 130:19 perhaps (1) 48:5 period (3) 104:20:143:18; 145:19 perpendicular (2) 57:11,22 person (1) 45.5 perspective (4) 29:22;32:8;37:13; 66:14 pertain (2) 9:1;143:23 pertained (1) 8:24 pertinent (2) 14:18:137:9 petition (9) 25:12;30:8;113:15; 115:8,12;116:1; 121:22:122:18; 135:24 petitioned (1) 15:18 petitions (1) 117:16 phase (5) 39:22;57:18;58:8, 9:59:5 Philip (1) 19:6 photograph (2) 83:17:90:20 phrase (1) 22:24 physical (6) 7:23;10:22;11:4; 40:2;113:8;130:7 pick (1) 97:3 picked (3) 8:15;11:1;120:8 picture (13) 70:4:73:18:74:8, 12;75:1;79:4;81:24; 85:11;86:9;87:2; 88:4,8;98:21 pictures (2) 86:13;113:20 piece (3) 27:3;37:5;96:22 pins (1) 130:8 pipe (1) 8:3

151:19 34:5;72:4;79:5; plug (1) 81:7:82:2.4.9:83:11: 148:2 84:3,14:87:3,3,6,10; plus (3) 88:14,14;89:16,17, 19;91:9,9,14,14 74:18,18;93:20 pits (20) Plymouth (1) 34:3;60:10;77:14; 48:11 78:11:80:16:83:3; pm (1) 85:13,18;86:3,10,10, 159:3 14,14;87:7;88:22; point (9) 89:24;90:3,15,16; 18:14;36:8;51:21; 155:18 54:2:61:18:91:4; Pittsburg (1) 109:8;148:3;157:20 16:24 points (2) place (3) 60:11,17 105:24;106:1; pole (4) 145:18 90:21,23;91:1,1 placed (3) Pond (2) 54:24;56:15,16 88:1,10 placeholder (1) portion (5) 158:19 19:5:60:19:61:7; places (11) 70:18:143:13 15:9;20:19,23; portions (2) 23:24;24:1;38:17; 44:14.17 55:2;60:1,9;66:8,10 positive (1) placing (2) 60:18 82:5;96:10 positively (1) plan (17) 40:5 41:19,22;50:14; possible (7) 107:22;121:3; 25:15:43:7:49:11; 123:15,17,23;124:17, 61:4;149:10,12,18 19:125:12.16:126:2. possibly (2) 10:130:1:131:10: 132:16:135:14 158:5 potential (10) planned (1) 5:24;7:8;24:21; 122:14 30:7;51:13;113:17; planning (1) 135:13:138:13; 105:21 139:7:140:7 plans (12) potentially (7) 6:2;7:9;40:15; 22:5,7;28:20; 106:16;108:17,20; 35:22:51:10:90:24: 109:5,9;112:18; 122:4 pour (1) 120:20;128:15; 150:18 104:7 planted (1) pouring (1) 139:22 104:8 power (3) plants (1) 139:17 43:2,3,5 plate (5) Powers (1) 105:4,9,15,19; 19:16 132:10 practicable (2) plated (1) 13:9:43:9 104:23 precast (1) plates (1) 97:1 105:2 precise (1) plating (6) 56:23 16:8;33:1,2; precision (1) 104:16,18;105:23 41:23 played (1) prefabricated (1) 6:13 99:6 prefer (1) please (7) 27:14;42:23;117:2; 145:24 127:4;135:2;139:12; preference (1)

58:4 6:4 31:9 76:21

58:20 preferences (1) 21:22 prefiled (1) 143:24 preliminary (1) 21:19 prepared (6) 6:5;43:11;124:16; 146:21,23:155:22 prepares (1) 154:13 Preparing (2) 117:10;135:14 prescribe (1) 10:12 prescribed (1) prescriptive (8) 10:19;112:7,10,12, 22;115:7;116:9; 117:17 prescriptively (1) 112:24 present (6) 9:23;28:20;123:20; 124:18;156:13; 158:19 presented (2) 9:20:158:22 pretty (2) 84:15:128:21 prevail (1) 135:7 prevent (1) 15:17 prevents (1) 54:18 prices (1) 147:19 pricing (2) 147:15,24 primary (1) print (1) 153:21 prior (5) 32:20;47:8;49:21; 72:14;131:1 private (6) 112:18:113:24; 114:8,16,21;115:14 probability (1) probable (1) 75:19 probably (6) 11:22;21:4;57:10, 12;75:22;103:9 problems (1) 108:20 proceed (1)

**DAY 42 - MORNING SESSION ONLY** September 29, 2017

> proceeded (1) 65:16 proceeding (1) 38:19 proceedings (1) 127:6 process (55) 5:22;6:17;9:22; 12:1,4,15,17,18; 13:19;17:2,20;18:5,9, 15;20:15;25:11; 31:24;32:2,6,12; 33:16,20,23;34:8,12; 35:14;36:7,14,18; 37:8;38:11;50:1; 65:3;105:9,21;106:2; 108:13;112:7,11; 117:20;125:21; 131:2,7,9,9,12; 132:18;141:4;148:7, 8,13:151:4:153:4: 156:24:157:5 processed (1) 36:6 produced (1) 21:19 product (4) 132:3;148:17; 153:7.8 professional (1) 59:2 profile (1) 107:21 progress (3) 5:22;12:11;35:6 Project (61) 11:20;14:21;16:16; 18:17,19;29:15; 33:10;39:2;40:22,24; 41:5,11:44:22:45:11; 46:17;48:1;49:17; 50:14:54:13,19,23; 58:2;61:1;69:8;74:2; 79:8;81:14;82:5; 83:11;90:14;91:23; 94:16;101:4;103:24; 109:18;110:22; 113:3,13;114:7; 116:1;118:1,3;119:8; 120:20;123:2; 128:19;129:22; 130:17:135:12: 137:10;139:24; 140:21;143:14; 147:16,22,22;153:12, 14;156:20;157:2; 158:19 projected (1) 37:23 projects (6) 26:18;41:16;59:3, 4:130:2:156:22 Project's (8)

pit (23)

DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEA	ΛK
44:1;61:16;75:7;	p
112:23;115:16,21; 116:2;118:24	р
<b>proper (2)</b> 129:10,15	p
property (7)	
82:8;112:18; 113:11,24;114:8,16;	р
115:14 proposal (2)	p
39:24;151:14	p
proposed (28) 28:23;33:7;38:23;	p
62:24;64:4;72:5; 73:18;79:5,8;80:7,	
16;81:16;82:1,4,5;	
83:2,11;85:5,8;87:3,	
22;89:16,17;94:5,12, 16;149:20;151:12	
proposing (3)	
59:14;66:18,20	
<b>protection (4)</b> 34:21;127:11;	p
135:5,6	
<b>protocol (1)</b> 9:10	
protocols (2)	
129:16;130:5 provide (11)	q
13:10;18:7;20:17,	ч
21;50:22;57:20; 103:4;129:24;135:4;	q
152:14;156:22	q
provided (6) 5:20;8:10;34:13;	q
45:4;129:18;135:5	ч
<b>provides (2)</b> 93:2;156:19	q
providing (4)	q
36:8;128:24;132:6; 146:2	
public (21)	q
26:2;32:12;47:1,7; 62:5,7;63:18;80:21;	
81:4;84:22;85:23;	
86:19;87:16;89:12;	
95:15;122:24;128:1; 136:2;137:2;144:4;	
153:20	r
<b>publicly (1)</b> 20:1	r
Public's (8)	1,
67:11;77:4,11; 82:22;83:23;92:17;	r
111:2;128:1	r
published (2) 154:11,18	
publishes (2)	
20:2;24:13 <b>pull (3)</b>	r
25:17;39:13;89:3	
<b>pulling (1)</b> 34:10	r

pumps (2)	ready (1
83:9,18	126:20
punchline (2)	real (2)
108:3,11	75:4,1
purpose (1)	really (8
147:6	6:16;7
purposes (1)	28:19;
70:6	96:23;
pursuant (2)	reapplie
5:16;14:20	17:6
push (1)	reason (
60:14	26:15:
	20.13,
put (25)	101:17
8:11;9:15,18;	reasona
12:20;23:1,13,17;	117:6
25:14;46:10;50:6;	reasons
55:3;60:16;85:13,18;	15:1;1
92:21;96:22;97:3;	73:12;
118:13;150:2;151:7,	recall (9
9;153:8,10;156:16;	38:24;
157:16	55:15;
putting (7)	95:1;1
79:8;86:3;101:9;	recalled
103:11;114:9;	5:16
137:15,16	receipt (
107110,10	131:1
0	receive (
×	126:7
qualities (1)	received
26:15	7:18
quality (3)	receivin
24:7;148:17;153:7	69:5,1
quick (3)	71:21;
27:22;133:7,17	recently
quicker (1)	49:14
32:15	Recess (
quickly (2)	76:18;
5:12;144:19	recogniz
quite (4)	47:2,4
40:19;42:2;61:4;	115:9,
87:6	
quote (12)	recogniz 26:11
5:21,24;7:7;12:11,	recomm
12;81:16,20;107:15;	129:22
128:9,24;150:16,18	record (
128.9,24,130.10,18	78:3;1
R	136:6;
K	records
material (1)	116:1
<b>raised (1)</b> 10:3	recreati
range (1)	26:2;1
37:21	reduce (
	38:4;3
rate (1) 35:6	re-evalu
	I C C VAIII
rothor (X)	
rather (8)	73:13
55:23;56:7;58:21;	73:13 <b>referenc</b>
55:23;56:7;58:21; 60:6;62:11;106:5;	73:13 <b>referenc</b> 27:1;1
55:23;56:7;58:21; 60:6;62:11;106:5; 113:24;138:5	73:13 reference 27:1;1 reference
55:23;56:7;58:21; 60:6;62:11;106:5; 113:24;138:5 read (4)	73:13 reference 27:1;1 reference 11:18;
55:23;56:7;58:21; 60:6;62:11;106:5; 113:24;138:5 <b>read (4)</b> 78:2;129:6;134:24;	73:13 reference 27:1;1 reference 11:18; referring
55:23;56:7;58:21; 60:6;62:11;106:5; 113:24;138:5 read (4) 78:2;129:6;134:24; 135:2	73:13 reference 27:1;1 reference 11:18; referrin 25:22;
55:23;56:7;58:21; 60:6;62:11;106:5; 113:24;138:5 <b>read (4)</b> 78:2;129:6;134:24;	73:13 reference 27:1;1 reference 11:18 referrin

**1**) .0 2 **8**) 7:23;12:4; :34:19:35:3: :148:2 ed (1) (4) ;83:15;87:11; ble (1) (5) 7:23;33:14; ;80:6 ;39:13;49:1; :72:16:88:1; 40:17;145:2 (1) (1) 7 (1) d (1) ıg (7) 7.24:70:22: ;72:4;78:11 (1) (2) :159:3 ze (6) 4;114:7: ,13;116:2 zed (1) nendation (1) 2 (5) 27:23;134:4; ;151:21 (2) 7,17 ion (3)36:24,24  $(\mathbf{2})$ 39:23 ating (1) ce (2) 30:3 ces (2) ;130:1 **ig** (3) ;103:18; 2 reflect (1)

134:5 Refresh (1) 135:23 refuges (1) 137:1 refuses (1) 128:23 regarding (6) 5:20;18:8;19:12; 23:19;43:1;132:12 regards (1) 6:16 region (3) 16:3,12;48:7 regular (1) 9:19 reinforced (1) 58:3 reissued (1) 17:5 rejected (23) 52:7,8,13;53:8,12, 21;54:2;77:7;80:6, 16,23;83:15;91:4; 92:13;94:18;101:16; 107:3,14,21;108:16; 149:5,13,17 rejection (5) 91:2;101:18;109:1; 129:13:149:19 rejections (2) 106:19:152:18 relate (1) 11:24 related (2) 5:24;7:8 relates (1) 22:10 relating (1) 51:15 relation (7) 12:16:20:15:23:20; 24:20,23;26:7;51:12 relationship (2) 7:4;40:8 relative (1) 8:14 **Relevance** (1) 141:6 relevant (1) 141:22 re-look (1) 111:21 re-looked (1) 10:7 remain (2) 22:19;82:12 remainder (1) 20:23 remained (1) 83:18 remaining (4) 22:16;50:15,16,16

remains (1) 71:6 remember (3) 46:9;55:11;112:8 remove (3) 24:5;105:2,19 removed (2) 34:8:61:5 removing (1) 34:4 reopen (2) 105:10,15 repair (2) 56:19;58:6 repeat (2) 117:1;120:10 repeatedly (1) 38:18 replace (2) 56:19;57:3 replaced (2) 40:20:101:21 replacing (2) 57:15;102:6 report (20) 8:24;11:16;12:7; 110:23;111:9; 116:15;117:11,15; 118:6;123:1,7,13; 124:10,14;129:12,18; 130:10:152:7; 153:10:154:9 reported (1) 128:12 reports (2) 111:12;154:14 represent (5) 27:18;41:22;79:20; 94:21;95:2 representing (1) 127:10 request (118) 12:15,18;13:19; 14:15;22:20;26:17; 29:5,9;35:23;46:13; 47:9,10,14;49:9; 50:23;52:3,7,8;53:1, 12;54:4,8,22;55:20; 59:21;61:14;62:2,7; 63:3,13,19;64:15,22; 65:3,7,23:67:14; 69:23;70:14;71:19; 73:17;74:5;75:23; 76:8;77:5,6,11; 78:24;79:1,21;80:3, 11,11,14,15,22;81:6, 15,24;82:24;83:2; 84:23;85:4,12,24,24; 86:7,20,23;87:2,11, 17:88:13:89:15:91:7. 24;92:2,10,13,13,18, 21,24;93:9;94:4,6,18;

124:4

95:16;104:3;106:24;

DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEA	ARIN
107:7,12,14;116:8;	resol
121:11;124:18;	49
132:18;133:11;	respo
138:18;141:11;	6:4
145:5,11,16;146:5,	23
15;147:8;148:5,22,	10
24;149:2;150:13,21; 152:5;155:16;	13 14
157:18;158:10,11,15	14
requested (6)	respo
49:22;55:16;63:7;	13
80:24;90:14;101:5	respo
requesting (5)	12
21:14;60:9;85:18;	respo
91:8;138:23 requests (89)	52
5:20;6:18;12:8;	respo 51
14:22;15:2;16:4,14;	respo
17:8,10;18:20;20:7,	6:4
11;21:11,14;22:17;	respo
25:13,14;26:16,17;	6:1
27:20;31:7;32:22,24;	respo
35:2,14;36:5;46:8, 18;47:13;48:1,10,17,	20 rest
20;49:1,18,20,24;	47
50:10,13,15,19;51:8,	resta
12,17,19;52:1,11,13,	13
20;53:4,20,24;54:23;	resta
61:1,6,7,20,23;64:12;	79
65:5,21;67:5;106:20; 117:18;132:17,22;	restr 97
133:5,15,18;135:15;	restr
137:5,7,13,14;	34
141:12;143:12;	resul
144:8,18;145:20,24;	50
146:4,9,17,18; 148:21;150:5;	resul 80
152:19;157:9,17	resul
require (7)	52
65:6;97:10;125:11,	24
15;135:4;144:11;	15
151:10 required (14)	resul
14:19;40:2;62:1;	91 resul
93:13,19;95:19;96:3;	32
110:22;111:8;128:8;	resul
134:20;140:24;	13
146:6;151:6	resu
<b>requirement (6)</b> 13:17;65:2;103:21;	76 <b>retu</b>
111:14;112:6;128:21	10
requirements (15)	retu
14:2,3;43:21;44:8;	11
130:20;134:18;	REV
140:16,16;141:13,14,	14
18,22;143:4,9;148:18 requires (5)	<b>revie</b> 5:2
43:5;87:7;102:9;	20
129:6;142:10	10
requiring (1)	10
63:10	15
research (1)	revie
130:6	6:9

esolved (1)	107:7;
49:22	reviewin
espect (17)	132:11
6:4;25:3;30:13,18,	reviews (
23;40:7;41:21;	93:5
108:18;138:2,17;	revised (
139:9;143:9,13;	124:6,
144:8;150:20;152:4;	142:11
154:3	revision
espond (1)	11:15;
133:14	62:8;6
esponding (1)	revisions
127:20	52:23
esponse (4)	revolved
52:17,20,21;150:5	138:1
esponses (2)	right (70
51:24;152:18	5:3;18
esponsibilities (1)	31:12;
6:4	45:9,1′
esponsibility (1)	16;53:2
6:15	57:2;6
esponsible (2)	69:6;7
20:10;40:22	72:5,8
est (3)	75:17;
47:21;50:9;136:23	79:9,1
estate (1)	81:13;
131:15	85:22;
estaurant (2)	91:18;
79:21;80:18	101:6;
estriction (1)	22;111
97:12	118:21
estrictions (2)	122:15 128:10
34:7,18	128.10
esubmit (3) 50:14;54:4;133:5	15,18, 152:8;
esubmittal (2)	152.8,
80:12;92:14	right-ha
esubmitted (8)	72:7
52:14;77:7;80:5,	right-of-
24;107:4;124:8;	7:16,2
158:12,16	10:6,1
esult (3)	12:6;1
91:18;104:6,13	15:18;
esulted (1)	28:12;
32:3	43:7;44
esults (1)	12,19;
132:20	107:16
esumed (1)	115:3,
76:19	116:10
eturn (4)	118:2;
10:11,17;112:1,15	23;120
eturns (1)	21,24;
111:23	21;122
EV (1)	129:9,
148:23	152:6;
eview (13) 5:22;7:2;12:12;	20;156 rights (1
20:15;36:12;54:6;	10:19;
107:23;108:19;	23,24;
109:9;132:4,8;133:9;	116:3,
150:12	rights-of
eviewed (5)	130:3;
6:9;53:23;91:5;	river (6)

107:7;145:13	
eviewing (2)	
132:11,16	r
eviews (1)	1
93:5	
evised (6)	
124:6,8;141:4;	
142:11;149:1,2	
evision (7)	
11:15;52:3,7,9;	
62:8;63:20;77:12	
evisions (1)	
52:23	
evolved (1)	
138:1	
ight (70)	
5:3;18:2;24:24;	
31:12;44:4,13,20;	
45:9,17;47:14;49:10,	
16;53:21;54:10;55:7;	
57:2;60:24;66:15,20;	
69:6;70:5,8,21;71:1;	
72:5,8;73:4;74:8;	re
75:17;77:21;78:8;	
79:9,10;80:3,6;	
81:13;82:6;84:15,17;	
85:22;88:21,23;	r
91:18;97:23;100:23;	
101:6;104:10;105:6,	r
22;111:21;115:1;	
118:21;121:13,14,20;	
122:15,17;127:9;	
128:10,16;131:5,8,	
13,18;136:19;146:6;	
152:8;156:6;157:10;	
159:1	р
ight-hand (1)	R
72:7 ight-of-way ( <b>70</b> )	R
7:16,21;9:10,18;	N
10:6,18;11:19,21;	R
12:6;13:7,7,9,21,24;	N
15:18;19:10,13;	r
28:12;30:4;36:3;	
43:7;44:12,24;45:4,8,	r
12,19;69:11;90:22;	
107:16;114:1,14,22;	r
115:3,13,15,23;	
116:10,13,20;117:23;	re
118:2;119:19,20,21,	- 1
23;120:3,7,12,14,16,	
21,24;121:2,6,8,19,	
21;122:6;128:14;	
129:9,11;130:9,18;	re
152:6;153:13;155:9,	
20;156:19;157:1	R
ights (12)	
10:19;112:7,11,12,	
23,24;115:8,19,20;	
116:3,5;117:17	
ights-of-way (2)	
130:3;156:23	
iver (6)	

07 04 00 10 00 0	1.4
27:24;38:19;39:2,	14
9;43:15,16	route
road (80)	24
15:8,8,16;17:22;	route
22:1,4;28:8,22;29:13,	12
22;43:6;44:3,6;	ruled
54:20,24;59:24;60:6,	46
7,12,13,15;72:3,9;	runs
74:13,14;75:11,11;	89
82:16;83:4;84:6,11,	rura
15;85:13,15,18,20;	33
86:15,16;87:8,11;	
89:20;90:3,4,5,19;	
91:10,15,17,19;97:9, 17,17,18,22,23;98:5;	
17,17,18,22,23;98:5;	safe
102:5,7,24;104:10,	13
11;113:6,10;115:2,4,	safel
13,14;118:24;119:9,	16
12;121:11;122:12;	safet
135:24;137:15,18,20;	81
139:16,21;151:9;	
155:8	same
	6:2
oads (8)	11
10:13;22:2;24:7;	10
97:16,21;134:10,12,	sand
15	15
oadside (1)	satis
37:15	11
oadway (24)	14
15:5,19;18:4;	satis
13.3, 19, 10.4, 22.12, 20.22.6, 20.7	
22:13,20;23:6;29:7,	11
16;30:9;60:17;61:17;	11
70:7;92:4;103:15,19;	saw (
104:19;113:16,16;	22
116:6;121:23;	72
137:11,16;155:14,19	11
Rock (2)	sayin
16:19;97:17	24
Rocks (1)	44
16:20	11
Rodrigue (1)	13
19:1	14
role (2)	scale
6:13,22	28
olling (1)	scale
105:22	71
<b>coof</b> (2)	scan
79:11;80:9	31
room (11)	sceni
15:13;29:12;30:21;	22
37:5;54:18;55:3;	22
85:15,19;86:16;90:4,	12
24	19
round (1)	13
17:7	8,1
Route (28)	20
16:13,23;35:5;	14
39:19;43:22;44:2;	schee
45:23;60:21;65:15,	12
	-
17;66:1;77:19;81:11;	schee
86:15;95:6;97:13,18;	19
98:1,11,13,15,16,20;	Schn
106:3;112:14;126:9;	19

4:9,11 es (2) 1:15;141:3 e's (1) 26:4 d (1) 5:2 (1) 9:5 l (1) 3:5 S (2) 8:10;95:7 ly (1) 5:9 ty (1) :18 e (9) 21;35:19;66:5, ,11,12;95:15;98:7; )1:20 (1) 51:5 fied (3) 8:3;132:14; 9:23 fy (3) 1:13;112:6; 8:1 (9) 2:15;53:17;64:17; :14;98:8,20; 0:21;111:4;118:9 ng (16) 4;25:2;30:24; :16:63:12:80:13; 7:14,24;125:24; 4:13;138:21,22; 2:5,8,14;144:9 (2) 3:17;29:18 ed (1) :15 (1) :14 ic (36) 2:6;24:6,12,14,18, ,23;25:4,11;26:1, ,19,23;30:7;35:12, ;51:12;135:8,13; 86:18,22,22;137:6, 2,22;138:2,2,6,18, ,24;139:3,4; 3:23;144:2 duled (1) 25:6 dules (1) ):21 nidt (1) 19:9

#### DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEA	R
scope (1)	
147:22	S
Scott (22) 43:10,13,19,24;	S
44:5,9,14;55:13;	D
99:14,19,22;100:1,3,	a
8,9,13,16,18;155:21, 24;156:2,7	S
screen (43)	S
46:24;47:6;53:2;	G
63:17;69:22;70:13; 71:18;73:16;77:3,10;	S
79:1;80:14,20;81:3,	S
23;82:21;83:22; 84:22;85:3,22;86:6,	
18;87:1,15,22;88:12;	S
89:11,14;91:6;92:8,	
16;93:8;94:3;95:14; 106:17;107:10,19;	S
111:1;118:18;	S
122:23;123:6,12;	
124:10 seasonal (1)	S
34:6	S
<b>SEC (3)</b>	
18:15;135:20; 136:7	
second (18)	
7:23;10:21;22:9;	S
26:1;33:11;36:4; 52:22;54:22;60:13;	s
62:8;110:12;111:1;	
119:3;128:3;149:1,3,	
6;152:10 section (22)	s
24:11;25:21,24;	
26:20;43:17;44:13;	
81:13;97:16;99:11, 12,16,20,21,24,24;	S
126:4,5;135:2,9;	s
139:5;154:21,22	~1
<b>sections (9)</b> 14:20;27:5;28:16;	s
33:9;43:12;99:9,14;	S
100:5;140:15 seek (2)	s
35:22;112:24	5
seeking (3)	s
17:11;56:2,7 seems (2)	s
83:16;157:8	51
self-supporting (2)	s
57:20;103:5 sending (1)	s
78:11	
sense (4)	s
17:15;31:17; 102:12;112:20	
sent (3)	
10:22;17:11,13	s
<b>sentence (1)</b> 13:20	s
separate (1)	

159:6 eparates (1) 47:8 eptember (6) 5:17;6:10;9:17,20; 124:23:125:5 ervetas (1) 19:2 service (2) 56:16:57:11 ervices (1) 18:23 ession (2) 159:5.7 et (5) 10:23;42:9;113:10; 116:12;136:18 etting (1) 140:15 ettled (1) 46:3 even (3) 53:7;149:4,13 everal (13) 9:7;28:16;30:1; 32:21,22;50:5;53:3; 89:23;108:15,23; 109:2;132:7;157:7 ewer (3) 56:6,18:103:19 haft (13) 39:16:69:12.17: 70:3,9,19,22;71:3,21; 72:10,12,14;73:18 hafts (5) 39:1,7;68:22; 69:24:70:16 haft's (2) 69:2.5 hall (1) 135:6 (2) harp 28:2,3 **HEB** (1) 16:21 hopping (1) 148:4 hore (1) 96:18 hored (1) 96:15 shoring (3) 33:22;96:21,22 hort (1) 158:6 houlder (9) 15:19;23:7,7,10; 37:3;73:22;74:18; 75:21;138:12 houlders (1) 113:7 show (4) 53:15,20;84:19; six (9)

141:14 showed (1) 140:14 showing (3) 73:5;98:3;119:22 shown (12) 42:20;43:1;46:6; 72:12,15;90:10;98:8; 107:16,21;128:14; 138:9:150:17 shows (18) 24:14:47:8:70:15; 72:1,9;73:18,21; 75:2;82:1;85:4,11; 86:9;87:2,22;88:9, 13;89:15;111:7 shrinks (2) 121:19,22 shrubbery (1) 139:16 shrubs (2) 24:2:139:21 side (29) 8:9;10:22;17:22; 23:13;28:3,4,8; 29:12;37:11,12;39:2, 9,10,12,14;72:2,7,13, 15,19,20,22,24;73:1, 1;93:20;94:14; 139:16,21 sides (3) 93:3.7.13 sidewalk (3) 73:22:74:18:75:21 signed (1) 20:12 significance (1) 8:14 significant (1) 152:20 signs (2) 8:13:11:1 similar (6) 21:20;22:21;25:13; 28:13;41:16;99:21 simply (4) 58:17;85:9,19; 86:16 single (2) 90:8;96:21 site (11) 20:4:26:24:46:12. 16;49:8,13;50:24; 61:18;85:10;105:2; 157:17 sites (7) 26:2;78:21,22; 90:14;119:2,4;137:1 siting (1) 140:16 situations (1) 95:12

11:14:62:24:63:5: 64:17:96:6:117:9.12: 132:23:145:6 six- (3) 11:22;131:9,11 size (3) 96:15;99:21;100:4 sketch (2) 28:7,23 skip (1) 108:10 slope (3) 87:13,14;90:5 slow (4) 57:16;65:5;104:14; 106:6 small (4) 48:5;51:19;110:8; 140:2 smaller (4) 97:11:121:7.9; 139:17 Society (1) 127:10 soil (1) 101:9 solid (2) 74:7;82:13 solution (1) 39:5 solutions (1) 34:13 somebody (2) 114:3:139:22 someone (2) 114:1;125:2 somewhere (2) 37:20;157:8 soon (1) 31:15 Sorry (4) 10:21:39:19:48:23: 149:11 sort (16) 7:13;14:15;15:11; 23:22;24:1,4;28:20; 32:2;37:15;41:3; 60:3;72:8;73:21; 139:18,20;150:23 sorts (1) 36:23 sought (4) 14:5;15:1,12;17:14 sourced (2) 106:8,12 south (4) 39:9;72:24;73:1; 90:2 space (4) 69:10;78:17;93:3; 155:8 span (1) 58:3

speak (3) 6:5:35:13:133:16 Speaking (1) 38:14 speaks (1) 49:4 special (3) 33:7;141:10,11 species (1) 139:17 specific (14) 7:10;18:20;20:17; 25:11;26:7,19;32:14; 35:4;54:9;58:3; 65:23;66:3;143:11; 147:23 specifically (6) 9:16;58:5;98:17; 113:17;116:4;135:22 specifics (1) 32:2 speed (4) 34:21;40:3;56:11; 140:13 splice (34) 34:3,5;54:23;55:3, 7,10;92:6,21;93:3,10, 11,15,19,21,23,24; 94:8,9,11,17,23; 95:20:96:2.3.5.7.13. 19,24;99:6,11:100:5, 19:119:6 splicing (1) 34:10 split (1) 48:24 SPNF(1) 147:5 square (1) 94:9 stability (1) 81:18 stable (1) 69:9 staff (1) 32:18 Stamp (1) 136:5 stand (5) 27:23;28:1;30:12; 59:16;122:1 Standard (4) 13:2,4;95:12;146:6 standards (1) 12:23 start (6) 7:7;12:17;50:3; 75:10;77:2;117:12 started (2) 137:21:153:5 Starting (2) 6:12:131:12 state (7)

DAY 42 - MORNING SESSION ONLY September 29, 2017

ADJUDICATORY HEA	A K
22:19;59:10,20;	
103:8,10;134:9;	s
156:22	
<b>stated (3)</b> 74:4;75:9;81:16	S
state-maintained (2)	S
134:11;136:2	
statement (10)	S
43:8;55:9;58:24; 64:2;83:21;123:18;	S
139:1;144:14;	3
145:10;152:4	S
state-owned (1)	
141:2 states (2)	S
41:16;107:5	
stating (1)	S
129:13	
station (7) 82:6,15,19;83:4,	
13;84:4,12	
Stations (1)	
107:17	
status (6) 12:15;20:14;26:12,	S
14;38:21,23	
statutory (1)	S
156:24	~
stay (2) 97:11;115:23	S
steep (2)	S
15:15;90:5	
<b>step (2)</b> 36:3,4	S
Stewartstown (1)	S
16:24	~
still (10) 5:5;15:8;27:7;	S
34:6;61:13;66:18;	S
67:17,18;69:22;	
139:14	S
<b>stopped (1)</b> 17:3	C1
straddling (1)	S
37:10	S
street (8)	
8:10,13;11:1; 70:11;72:13,15,20;	S
94:14	S
stretch (1)	
119:13 strike (1)	S
101:22	S
strips (1)	~
136:22	
<b>striving (1)</b> 153:10	
structural (5)	
101:19,19;102:3,3;	
103:5	
<b>structure (8)</b> 55:21;56:2,3;	
57:20;62:12;90:7;	S

103:5:114:18 structures (2) 56:6:103:15 ub (1) 151:8 ubcommittee (1) 134:17 subcontracted (1) 109:21 ubmission (1) 127:20 ubmit (4) 12:9;110:22;116:7; 132:24 submittal (3) 149:6,14,17 submitted (19) 21:20;22:18;44:22; 45:24;46:17;48:1; 61:1;65:22;81:15; 91:24;111:12; 117:16:123:15.17: 124:6;128:13; 130:15;154:7;158:1 submitting (3) 125:7,16,18 subsequent (1) 131:17 ubstantive (1) 15:1 successfully (1) 39:21 sufficient (2) 5:19:115:10 sufficiently (1) 112:5 ugar (3) 16:21.22:39:19 ummarize (1) 14:24 summary (1) 16:2 summer (3) 68:13,15;156:7 superimpose (1) 12:8 superimposed (1) 24:15 suppose (1) 133:20 supposed (1) 72:22 ure (25) 6:15;10:8;14:13; 15:3;16:2;18:10; 21:10;22:12;23:5; 27:9;37:1;38:23; 58:13;84:21;99:3; 104:17;109:15; 120:11,22;127:3,5; 132:9:139:13:144:6: 150:19 urface (4)

57:5:104:5.10.11 survev (47) 6:19;7:15,24;8:15, 24:11:5.16:12:7: 17:5;19:12:36:4; 44:23;50:11;51:20; 109:13,19;110:2,23; 111:9,11;113:3; 116:15;117:11,15; 118:2,6,7;120:2; 121:3;127:21; 128:10,22;129:1,7, 12,18;130:2,10,13; 131:4;132:12,20; 133:10;152:7;153:9; 154:4,6 surveying (1) 111:17 surveyor (1) 19:13 surveyors (2) 8:16:9:17 suspended (3) 50:9;117:19; 132:19 Suther (1) 19:15 switch (2) 27:2.13 Т table (1) 116:24 talk (2) 18:15;57:2 talked (8) 9:21;26:8;33:24; 35:3:40:13:97:22: 131:8:135:8 talking (8) 83:1;84:4;121:12, 16;137:24;139:8; 141:9,13 talks (1) 62:16 tall (1) 99:18 Talon (1) 19:12 task (1) 62:1 **TCC** (1) 123:21 team (2) 7:3;39:3 Technical (1) 77:22 technique (3) 16:9;34:23;73:13 techniques (1) 37:8 technology (2)

39:6:42:1 telecommunication (1) 59:1 temporary (1) 34:2 tend (1) 33:16 Ten-foot (1) 95:11 ten-minute (1) 76:16 tens (1) 132:16 terms (1) 144:22 testified (18) 6:14,24;59:22; 65:13;109:13; 133:23,24;135:16; 146:2;150:6,20; 154:3:155:21; 156:18:157:6.24: 158:9,14 testifying (1) 143:18 testimony (9) 5:15;131:1;135:11; 138:1,16:143:24; 144:17;154:2;157:13 thats (2) 108:4,8 therefore (3) 44:17:107:6.22 There'll (1) 121:24 thermal (6) 16:7:34:17,20; 57:19;101:2;102:1 thinking (3) 34:14;39:3;103:14 third (9) 8:6:18:12:55:20; 63:20;110:15; 119:15;121:16; 124:23;149:14 thirdly (1) 10:14 Thornton (2) 48:19,21 though (2) 121:13:158:15 thought (6) 31:21;117:8; 128:20;130:24; 138:20:155:4 thousand (2) 28:16;89:2 thousands (1) 30:1 three (8) 34:24;59:16;63:9, 13:68:5:76:6:90:9: 109:24

Throughout (3) 50:1:83:19:106:5 Thursday (1) 124:23 tie (2) 16:9:130:1 tier (1) 102:5 tightening (1) 130:10 tighter (1) 153:8 times (4) 40:6;66:22;98:18; 127:18 timetable (1) 11:11 today (14) 20:16;30:13,24; 46:1;111:5;120:14; 127:18;128:5,23; 141:10.23:153:5: 154:2;157:13 together (4) 9:13;23:2,18;28:15 told (1) 18:1 took (2) 21:10;124:2 top(24)15:12:22:23:25:24: 32:10:33:12:55:12: 69:16:73:19:79:4,19: 81:24;88:4;89:15; 99:15,20,24;100:1,3, 9,16;104:9;145:7,8; 150:23 topic (5) 12:10;20:13;40:6; 76:16:106:15 topics (3) 5:11:6:6:7:10 total (3) 37:23;46:8;55:10 totally (1) 119:9 touched (1) 34:16 towards (8) 39:9,11,19;75:12; 82:14;91:1;146:20; 156:16 town (8) 47:10;48:5,10; 77:18;81:10;84:24; 86:1,20 towns (3) 48:5;84:20;90:9 track (3) 10:6,21:15:6 tracks (2) 10:5:37:11 traffic (31)

ADJUDICATORY HEARING September 29, 2017				
13:10;14:16;61:20,	trying (3)	ultimately (4)	46:2;51:20;67:8;	119:6
24;62:16,23;63:10,	27:18;114:10;	20:10;34:7;61:15;	40.2,51.20,07.8, 134:18	vegetation (1)
	145:4	151:9		24:6
22;64:2,13;66:19; 74:3;81:18;95:18,23;			<b>urban (1)</b> 33:6	
	<b>Tuesday (1)</b> 18:12	unable (1) 125:4		<b>vegetative (1)</b> 139:10
96:4;104:21;123:20;			use (33)	
124:16,17,19;125:12,	turn (5)	<b>unclear (1)</b> 157:1	7:19;16:7,8;22:24;	verbally (1)
15;126:1,10;144:23;	39:18;127:17;		27:11;33:1;34:2,16;	9:23
145:17,18;158:5,7,20	128:3;135:10;147:10	under (20)	39:5;57:18;77:5;	verify (1)
traffic's (1)	turnaround (1)	5:5;21:17;41:19;	101:8,24;103:24;	113:14
62:20 trails (2)	133:7	43:15;55:16;56:8,21; 77:15,21;81:7;84:8;	104:3,16,18;110:5;	<b>version (3)</b> 128:2,2;156:11
136:24;144:2	<b>turning (1)</b> 133:18	88:5;92:3;95:18;	113:3,4,9,19,23;	versions (1)
	turns (1)	107:2;111:7;137:18;	114:8,11,20,21,21; 115:11,13,14;144:22;	127:22
transcript (1) 159:6	8:8	141:2;155:14;159:6	115.11,15,14,144.22, 150:21	versus (1)
transmission (8)	Twelve (1)	underground (29)	used (7)	140:2
44:2;56:21;58:11,	71:11	6:1;7:9;8:18;	11:19;24:3;59:7;	view (1)
22;59:11,15,19;	twenty (1)	12:16;20:14,18;40:8;	109:24;110:13;	107:22
102:14	59:16	43:2,3,5,12,22;44:2,	114:12;128:7	virtually (2)
Transportation (6)	two (32)	11,12,21;45:23;	using (7)	60:4;91:22
123:14,23;127:20;	7:13;10:5;12:2,13;	59:15,18;60:21;	34:8,22;65:10;	visual (1)
141:3;150:10;152:2	16:5;20:3;39:1,7;	65:15,17;66:1;	106:5,7;114:17;	144:5
transverse (1)	48:14,24;52:11;	114:17;126:3,5,9;	154:19	144.5
57:10	60:18;63:9,13;68:8;	136:1;155:23	usually (2)	W
travel (9)	70:15;76:7;78:9,11,	underneath (11)	54:1;57:21	••
71:6,12;73:22;	11;86:13;88:10,14;	15:4,5;29:7;39:9;	utilities (18)	wait (1)
74:7;75:20;94:23;	91:12;99:14;101:5;	54:24;55:22,23;56:3;	8:6,9;10:24;15:10;	105:10
95:7,8;97:12	112:4;119:10;	57:22;61:13;155:14	19:15,17;20:9;32:11;	wants (3)
tree (19)	126:14;127:21;	understands (1)	33:13;57:4;59:8;	5:18;18:18,19
22:3,5,24;23:2,4,	145:6,9	47:24	103:6,12,17,20;	watching (1)
20;24:21;25:5;28:10;	tying (1)	understood (2)	107:5;135:4;150:11	116:23
30:5,6;118:22;	11:18	104:18;105:12	Utility (31)	water (21)
119:16;120:15,23;	type (14)	underway (1)	12:22;14:8;25:18;	56:6,17;57:2,4,5,6,
139:8,13,14;140:7	18:4;28:9,13;	135:12	26:6,21;31:2;42:20;	9,11,13,14,15,23;
trees (24)	35:20;41:6;42:4;	Unfortunately (1)	56:6,17,18,20,22,24;	58:10,19,21;59:1,9,
23:22;24:2;28:11;	54:22;55:20;56:24;	125:4	57:2,5,6;58:10,21;	12;102:13;103:18;
29:2;30:10;35:12,21;	57:8;59:21;62:16;	unit (3)	59:9;90:21,23,24;	137:1
36:19;51:13;120:13;	65:10;139:9	147:15,19,24	91:1;102:13;103:7,	way (17)
121:4,5,12,20,24;	types (7)	Unless (1)	10;133:21;134:8,20;	13:8;19:9;35:19;
122:4,11,16,19;	7:24;22:21;25:13;	157:21	135:9;143:5	37:18;40:23;41:1;
137:17,22;138:13;	40:21;54:7;138:6;	unusual (1)		52:10,18;94:15;
140:2,8	139:4	45:6	V	97:12;104:4;114:18;
trench (10)	typical (4)	up (46)		117:20;122:3;
23:12,14;33:21;	27:19;37:9;96:2;	5:9;8:15,19;11:2;	valid (1)	129:10;134:13;
36:16;37:9,10,18;	148:15	12:20;13:13;14:8;	49:21	137:17
72:2;96:23;101:9	typically (18)	15:22;16:9;21:2,6;	validate (1)	ways (1)
tried (1)	18:11,15,21;19:1,	25:18;27:9;31:13;	10:24	115:20
60:16	18;20:3;33:3;41:15;	35:8;38:17;39:11,17;	valley (1)	WBR3 (2)
triple (1)	45:3;48:4;54:17;	40:7;46:10,20;49:7;	28:3	16:12;17:3
24:8	60:12;65:9;97:24;	50:6;51:14;56:11;	various (3)	web (7)
trouble (1)	98:7;113:5;146:19;	73:14;78:12;96:8;	27:5;52:1;115:9	20:4;46:12,16;
148:10	156:19	97:3;99:10;102:4;	vary (1)	49:8,13;50:24;
truck (2)		103:11;104:4,10;	64:17	157:17
97:2;100:14	U	106:10;118:13;	vast (1)	weed (1)
trucks (2)		120:8;130:10;134:6;	90:13	127:15
104:7,8	UAM (15)	142:6,14,20;143:20;	vault (18)	week (1)
true (8)	43:4;107:3;136:17;	150:2;151:8;152:23	55:3;93:4,15,20,	10:1
20:16;47:19;66:3;	139:5;140:15;141:4,	update (1)	21;94:1,9,9,12,17,24;	weeks (18)
90:17;91:6;105:8;	10;142:6,10,14,20;	157:23	95:20;96:3,10,19;	11:14;20:3;63:9,
112:19;141:19	144:13;156:10,11,14	updated (2)	99:9;100:6,19	14;67:24;68:5,16,19;
try (6)	UAM's (2)	35:24;51:20	vaults (14)	76:7,7;117:9,12,12;
5:11;27:4;45:13;	43:21;44:8	updating (3)	54:23;55:7,10;	132:2,23;145:6,7,10
140:13;144:19;	ultimate (1)	17:4;18:16;50:10	92:6;93:23;96:2,5,7,	weighs (1)
153:14	65:20	upon (4)	13,24;99:6,7,11;	99:24

ADJUDICATORY HE	AKING	1	1	September 29, 2017
weight (1)	witnesses (1)	156:21	123:2	154 (1)
100:2	134:5	yellow (5)	12:33 (1)	55:12
Welcome (4)	WMNF (1)	74:7,10,11,12;	159:3	16 (7)
5:3,4;42:19;136:23	16:16	82:13	12-week (1)	68:16;95:19,22;
weren't (2)	wonder (1)	yup (2)	76:11	96:4;97:6;100:20;
8:10;34:14	109:8	78:19;150:7	13 (7)	145:12
what's (16)	wondering (1)	70.19,150.7	48:13,18;92:10,13,	<b>16-1/2 (1)</b>
11:11;20:5;46:24;	155:5	Z	18;94:4;95:16	11:13
47:6;51:22;63:17;	Woodstock (10)		13513 (1)	171 (1)
71:9;73:16;88:12;	16:12,17;19:6,8;	zone (9)	123:13	89:15
96:3;107:19;117:4;	48:24;50:7;86:1,20;	23:13,16;33:4,5;	13521 (1)	18 (8)
122:13,23;123:6;	90:2;98:7	36:15;37:13,19;	82:22	16:15;22:15,16;
133:13	word (9)	97:10;122:16	136 (3)	39:19,19;93:18;
whatsoever (3)	7:19;61:3;94:19;	zones (2)	12:20;25:17;	123:7;152:5
28:18;137:17;	109:1;144:22;149:8;	16:10;32:14	133:23	183 (8)
146:9	150:19;152:9;157:7	zoom (1)	13646 (1)	51:23;92:9;106:18;
wherever (1)	wording (2)	135:1	93:8	107:11,20;150:3;
102:1	128:7;129:24	155.1	13649 (1)	151:21;152:1
whichever (1)	words (3)	0	94:3	188 (2)
102:9	128:7;136:16;	v	13757 (1)	46:20;49:9
White (1)	154:24	0.6 (1)	79:1	40.20,49.9 <b>19 (1)</b>
122:7	work (53)	22:6	13764 (1)	5:17
Whitley (3)	17:15;19:17;23:13,	<b>0.9 (1)</b>	81:14	<b>190 (1)</b>
126:19,20,22	15;29:17;32:14,14;	38:9	13765 (1)	49:9
whole (2)	33:4,5,8;34:5;35:18;	58.9	81:23	19th (2)
49:5,6	37:13,19;57:16;63:4,	1	<b>13767 (1)</b>	6:10;9:20
who's (4)	9;64:9,14;66:12;	1	83:22	0.10,9.20
19:2,4,7,10	67:8;68:10;70:15,18;	1 (10)	14 (1)	2
wide (4)	71:7;75:8,13,14,16;	19:7;21:12,13;	68:19	4
36:15;71:13;93:15;	77:2;78:6,15;79:5,8;	52:3,7,8;62:8;90:20;	14032 (1)	2 (8)
99:17	80:7;82:10;88:21;	136:10;148:22	70:14	13:3;21:13,15;
wider (2)	89:12;90:15;93:12;	<b>1:30</b> (1)	14033 (1)	52:3,9;69:13;147:14;
98:11,13	97:10;102:14;	159:2	71:20	148:23
width (6)	109:13,19,20,21;	10 (10)	14035 (1)	20 (5)
23:12;82:11,13;	110:2,6;117:5;120:2;	23:15;29:17;36:15;	73:17	53:15,24;55:17;
93:19;98:7;101:21	125:17;130:19;154:7	37:2,20;40:17;78:12;	14146 (1)	68:19;69:5
wildlife (1)	worked (9)	94:23;113:21;122:15	85:3	2010 (1)
136:24	9:9;10:10;21:18;	10:33 (1)	14155 (1)	156:15
willing (2)	90:18;129:3,14;	76:18	86:6	2015 (3)
41:9,11	130:4;133:8;148:14	10:46 (1)	14183 (1)	45:10;156:5,13
withdrawn (7)	working (8)	76:19	87:1	2017 (11)
49:17,24;50:20;	18:5;49:19;67:2,2;	100 (1)	14192 (1)	5:16,17;8:20;
61:5;157:10,16,19	130:11;148:13,16;	157:9	87:21	52:19;53:3;111:4;
withdrew (1)	153:5	10-foot (4)	14194 (1)	123:2,7;124:11;
158:9	works (1)	60:14;95:7,10;	88:13	150:3;152:1
within (25)	117:20	122:16	14250 (1)	2018 (2)
13:6;16:17;22:19;	workspace (3)	10s (1)	89:14	36:10;125:19
42:5;59:19;60:14;	40:2;71:2;89:7	157:8	146 (2)	20-foot (2)
62:1;68:22;74:1;	worry (2)	11 (4)	84:23;85:4	39:1,15
77:14;80:17;81:7;	58:17;102:13	8:20;14:8;48:2;	147 (2)	<b>20-something</b> (1)
83:3;86:4;91:19;	worth (1)	111:4	85:24;86:7	99:3
97:11;103:15;	152:24	112 (3)	15 (2)	2100 (1)
115:23;119:23;	written (1)	98:11,15,16	119:12;124:11	93:24
122:16;132:1;	48:22	116 (1)	150 (2)	22 (1)
133:12;140:22;	wrong (2)	39:18	55:13;88:20	25:18
141:2,15	121:18;130:24	118 (6)	1500 (1)	220 (2)
without (7)	,	46:8,18;49:15;	33:4	8:19;127:24
× /		,,,		
24:6;34:11;74:24;	Y	50:6,17:65:19	151 (1)	221 (2)
24:6;34:11;74:24; 75:15,18;105:10;	Y	50:6,17;65:19 11s (1)	<b>151 (1)</b> 86:20	<b>221 (2)</b> 15:22;46:7
		50:6,17;65:19 <b>11s (1)</b> 48:14	86:20	15:22;46:7
75:15,18;105:10; 155:10	year (4)	<b>11s (1)</b> 48:14	86:20 <b>152 (1)</b>	15:22;46:7 <b>222 (6)</b>
75:15,18;105:10;		<b>11s (1)</b> 48:14 <b>12 (7)</b>	86:20 <b>152 (1)</b> 55:14	15:22;46:7
75:15,18;105:10; 155:10 Witness (3)	<b>year (4)</b> 18:13;21:23;	<b>11s (1)</b> 48:14	86:20 <b>152 (1)</b>	15:22;46:7 <b>222 (6)</b> 21:2;35:8;37:22;

Min-U-Script®

ADJUDICATORI IIEA			
31:21;154:21	23:12	24:11;43:17;	76:11
23 (1)	4	119:13	8-1/2 (1)
12:20	4	<b>555 (1)</b> 67:12	24:24 8-foot (1)
<b>24 (6)</b> 64:3,7,18;71:12;	4 (13)	<b>569 (1)</b>	93:19
102:4,21	9:14;24:3,20;	84:23	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2497 (1)	36:24;37:22;63:19;	570 (1)	9
107:17	110:21;111:7;118:4,	85:23	
25 (1)	7;122:20;132:12;	573 (1)	9 (5)
69:2 <b>2505+50 (1)</b>	139:15 <b>4.5 (1)</b>	86:19 574 (1)	107:12;135:22,23;
107:17	22:17	87:16	136:11,13 <b>9/19 (1)</b>
25th (1)	40 (6)	580 (1)	154:10
131:12	13:13;43:1;53:20;	89:12	91-1/2 (1)
260 (1)	54:2;80:23;82:24	59 (1)	25:3
147:5	400 (2)	150:21	
<b>28 (2)</b> 48:22,23	122:9,11 <b>41 (6)</b>	<b>5-foot (3)</b> 23:13;93:6,12	
48.22,23 <b>29 (2)</b>	13:13,15;43:1;	5th (1)	
48:17,20	48:18;146:15;147:8	9:17	
2nd (1)	42 (3)		
5:15	5:4;159:4,7	6	
2	43.8 (2)		
3	24:16,23	<b>60 (1)</b> 53:24	
3 (14)	<b>490 (1)</b> 47:1	<b>60-something (1)</b>	
16:13,23;19:4;	491 (1)	49:18	
22:14;23:11;48:20;	47:7	626 (2)	
77:19;81:11,20;95:6;	493 (2)	140:23;143:3	
97:13,18;98:1,20	111:2;128:1	65 (2)	
3-(1)	494 (1)	15:7;61:13	
76:10	122:24	<b>65140</b> (1)	
<b>3.7 (7)</b> 22:4;24:21,22;	<b>496 (4)</b> 62:5;77:4;80:21;	106:22 <b>65141 (1)</b>	
25:7,9;37:24;51:15	82:23	107:10	
30 (13)	497 (2)	65142 (1)	
15:7;61:12;69:16;	62:5,7	107:19	
71:17;75:8,20;78:16,	4-inch (2)	65145 (1)	
16,19;82:9,14;85:10;	139:10,13	92:9	
156:21 <b>300 (1)</b>	<b>4-week (1)</b> 76:10	<b>65159 (1)</b> 152:11	
33:6	70.10	6-foot (1)	
31 (3)	5	37:20	
52:17,19;150:3			
<b>320-volt</b> (1)	5 (9)	7	
103:11	13:15;36:24;37:12;	7 (5)	
<b>33 (4)</b> 22:1;120:4,8,11	69:19;89:8;93:2,20; 100:20;122:20	<b>7 (5)</b> 43:14;53:2;106:24;	
<b>345,000-volt</b> (1)	<b>5- (1)</b>	43.14,55.2,100.24, 139:5;152:1	
59:11	37:20	7.5 (1)	
345-kV (1)	50 (1)	22:12	
59:14	157:9	7-1/2 (2)	
<b>34-foot</b> (1)	500 (2)	43:16;99:18	
99:17 <b>35 (4)</b>	63:18;122:7 <b>509 (3)</b>	<b>7-1/2-mile</b> (1) 97:16	
69:9;71:1;74:2,9	92:17;94:4;95:15	<b>7th (1)</b>	
36 (2)	52 (3)	151:20	
102:4,20	16:13;60:20;66:21		
38 (2)	521 (1)	8	
61:1,6	77:11	0 (0)	
39 (4)		N ('X)	i la
77.5 6 10.00.15	522 (2)	8(3)	
77:5,6,12;80:15 <b>3-foot (1)</b>	81:4;83:23 52-mile (3)	67:24;93:15;99:17 8- (1)	