

**In The Matter Of:**  
*STATE OF CONNECTICUT*  
*CONNECTICUT SITING COUNCIL*

---

*Docket No. 484*  
*September 18, 2018*

---

*BCT Reporting LLC*  
*55 Whiting Street, Suite 1A*  
*Plainville, CT 06062*  
*860.302.1876*

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Docket No. 484

Application from Cellco Partnership d/b/a Verizon  
Wireless for a Certificate of Environmental  
Compatibility and Public Need for the Construction,  
maintenance, and Operation of a Telecommunications  
Facility at One of Three Locations at 72 Ragged Hill  
Road, Pomfret, Connecticut

Regular Hearing held at the Abington  
Congregational Church, Fellowship Hall, 542 Hampton  
Road, Pomfret, Connecticut, Tuesday, September 18,  
2018, beginning at 3:00 p.m.

H e l d   B e f o r e :

ROBIN STEIN, Chairman

1    A p p e a r a n c e s :

2            Council Members:

3                    JAMES J. MURPHY, JR.

4                    Vice Chairman

5

6                    ROBERT HANNON,

7                    DEEP Designee

8

9                    MICHAEL HARDER

10                   EDWARD EDELSON

11

12            Council Staff:

13                   MELANIE BACHMAN, ESQ.,

14                   Executive Director and Staff Attorney

15

16                   ROBERT MERCIER,

17                   Siting Analyst

18

19

20

21

22

23

24

25

1 A p p e a r a n c e s:(cont'd)

2 For the Cellco Partnership d/b/a Verizon Wireless:

3 ROBINSON & COLE, LLP

4 280 Trumbull Street

5 Hartford, Connecticut 06103-3597

6 By: KENNETH C. BALDWIN, ESQ.

7 KBaldwin@rc.com

8 860.275.8200

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1           THE CHAIRMAN: Good afternoon. I'd like  
2 to call to order this hearing of the Connecticut  
3 Siting Council today, Tuesday, September 18, 2018,  
4 at approximately 3 p.m. My name is Robin Stein.  
5 I'm Chairman of the Siting Council. Other members  
6 of the Council present are Senator Murphy, our  
7 Vice Chairman; Mr. Hannon, designee from the  
8 Department of Energy and Environmental Protection;  
9 Mr. Edelson; and Mr. Harder is hopefully on his  
10 way.

11           Members of the staff are Attorney  
12 Melanie Bachman, our Executive Director; and  
13 Mr. Mercier, our siting analyst.

14           This hearing is held pursuant to  
15 provisions of Title 16 of the Connecticut General  
16 Statutes and of the Uniform Administrative  
17 Procedure Act upon an application from Cellco  
18 Partnership d/b/a Verizon Wireless for a  
19 certificate of environmental compatibility and  
20 public need for the construction, maintenance and  
21 operation of a telecommunication facility located  
22 at one of three possible locations, at 72 Ragged  
23 Hill Road in Pomfret, Connecticut. The  
24 application was received by the Council on July 9,  
25 2018.

1           As a reminder to all, off-the-record  
2           communication with a member of the Council or a  
3           member of the Council staff upon the merits of  
4           this application is prohibited by law.

5           A party to the proceedings is Cellco  
6           partnership d/b/a Verizon Wireless, Attorney  
7           Baldwin from Robinson & Cole.

8           We will proceed in accordance with the  
9           prepared agenda, copies of which are available  
10          somewhere -- in the back. Okay. Also available  
11          here are copies of the Council's citizen guide to  
12          Siting Council procedures.

13          At the end of this afternoon's  
14          evidentiary session we will recess and resume  
15          again at 6:30 p.m. for the public comment session.  
16          The 6:30 public comment session will be reserved  
17          for the public to make brief oral statements into  
18          the record.

19          I wish to note that the applicant  
20          including their representatives and witnesses are  
21          not allowed to participate in the public comment  
22          session. I also wish to note for those who are  
23          here and for the benefit of your friends and  
24          neighbors who are unable to join us that you or  
25          they may send written statements to the Council

1 within 30 days of the date hereof, and such  
2 written statements will be given the same weight  
3 as if spoken at the hearing.

4 A verbatim transcript will be made of  
5 this hearing and deposited with the town clerk's  
6 offices in Pomfret, Eastford and Woodstock for the  
7 convenience of the public.

8 Is there any public official? No. No  
9 motions, either.

10 Okay. I wish to call your attention to  
11 those items shown on the hearing program marked as  
12 Roman number 1D, items 1 through 72. Does the  
13 applicant have any objection to the items that the  
14 Council has noticed?

15 MR. BALDWIN: No objections,  
16 Mr. Chairman.

17 THE CHAIRMAN: Thank you. Accordingly,  
18 the Council hereby administratively notices these  
19 existing documents, statements and comments.

20 Will the applicant now present its  
21 witness panel for purposes of taking the oath?

22 MR. BALDWIN: I will, Mr. Chairman.  
23 Thank you.

24 Good afternoon, everyone. Ken Baldwin  
25 with Robinson & Cole on behalf of the applicant

1 Cellco Partnership doing business as Verizon  
2 Wireless.

3 Our witness panel as listed in the  
4 hearing program consists of, to my immediate left,  
5 Mr. Andrew Candiello. Mr. Candiello is a  
6 principal engineer with Verizon Wireless. Next to  
7 Mr. Candiello is Jay Latorre, a radiofrequency  
8 engineer with Verizon Wireless working on the  
9 conference center cell site. To Mr. Latorre's  
10 left is Dave Weinpahl, the managing partner and  
11 professional engineer with On Air Engineering,  
12 LLC, the project engineers.

13 To my right is Mike Libertine, the  
14 Director of Siting and Permitting for All-Points  
15 Technology Corporation. And to Mr. Libertine's  
16 right is Dean Gustafson, Senior Wetlands Scientist  
17 and professional soil scientist with All-Points  
18 Technology Corporation.

19 And we offer them to be sworn at this  
20 time, Mr. Chair.

21 THE CHAIRMAN: Would you please rise?  
22  
23  
24  
25



1     A N D R E W     C A N D I E L L O ,  
2     J U A N     L A T O R R E ,  
3     D A V I D     W E I N P A H L ,  
4     M I C H A E L     L I B E R T I N E ,  
5     D E A N     G U S T A F S O N ,

6             called as witnesses, being first duly sworn  
7             by the Executive Director, were examined and  
8             testified under oath as follows:

9  
10             MR. BALDWIN: Mr. Chairman, we have five  
11             exhibits listed in the hearing program under Roman  
12             2, section B. They include the application with  
13             the associated bulk file exhibits, our affidavit  
14             of publication, our responses to the Council's  
15             interrogatories, a signed posting affidavit  
16             regarding the public notice sign posted at the  
17             property, and most recently an errata sheet  
18             dealing with some corrections made to the  
19             application materials submitted back in July.  
20             They are listed in the hearing program for  
21             identification purposes subject to verification by  
22             our witnesses.

23             If I could ask our witnesses to respond  
24             to the following questions. Did you prepare or  
25             assist in the preparation of the hearing exhibits

1 listed in the hearing program as Roman 2B, items 1  
2 through 5? Mr. Weinpahl?

3 THE WITNESS (Weinpahl): Yes.

4 MR. BALDWIN: Mr. Latorre?

5 THE WITNESS (Latorre): Yes.

6 MR. BALDWIN: Mr. Candiello?

7 THE WITNESS (Candiello): Yes.

8 MR. BALDWIN: Mr. Libertine?

9 THE WITNESS (Libertine): Yes.

10 MR. BALDWIN: Mr. Gustafson?

11 THE WITNESS (Gustafson): Yes.

12 MR. BALDWIN: And do you have any  
13 additional corrections, modifications or  
14 amendments to offer to any of those exhibits?  
15 Mr. Weinpahl?

16 THE WITNESS (Weinpahl): No, I do not.

17 MR. BALDWIN: Mr. Latorre?

18 THE WITNESS (Latorre): No.

19 MR. BALDWIN: Mr. Candiello?

20 THE WITNESS (Candiello): No, I do not.

21 MR. BALDWIN: Mr. Libertine?

22 THE WITNESS (Libertine): No.

23 MR. BALDWIN: Mr. Gustafson?

24 THE WITNESS (Gustafson): No.

25 MR. BALDWIN: And is the information

1 contained in those exhibits true and accurate to  
2 the best of your knowledge Mr. Weinpahl?

3 THE WITNESS (Weinpahl): Yes.

4 MR. BALDWIN: Mr. Latorre?

5 THE WITNESS (Latorre): Yes.

6 MR. BALDWIN: Mr. Candiello?

7 THE WITNESS (Candiello): Yes.

8 MR. BALDWIN: Mr. Libertine?

9 THE WITNESS (Libertine): Yes.

10 MR. BALDWIN: Mr. Gustafson?

11 THE WITNESS (Gustafson): Yes.

12 MR. BALDWIN: And do you adopt the  
13 information contained in those exhibits as your  
14 testimony in this proceeding? Mr. Weinpahl?

15 THE WITNESS (Weinpahl): Yes.

16 MR. BALDWIN: Mr. Latorre?

17 THE WITNESS (Latorre): Yes.

18 MR. BALDWIN: Mr. Candiello?

19 THE WITNESS (Candiello): Yes.

20 MR. BALDWIN: Mr. Libertine?

21 THE WITNESS (Libertine): Yes.

22 MR. BALDWIN: Mr. Gustafson?

23 THE WITNESS (Gustafson): Yes.

24 MR. BALDWIN: Thank you.

25 Mr. Chairman, I offer them as full

1 exhibits.

2 THE CHAIRMAN: Thank you. The exhibits  
3 are hereby admitted. We'll now begin with  
4 cross-examination starting with Mr. Mercier.

5 MR. MERCIER: Thank you. I would just  
6 like to begin with the field review today, some of  
7 the observations that were made. I guess I'll  
8 just start to get the balloon fly question out of  
9 the way.

10 Mr. Libertine, would you please describe  
11 how successful you were today flying balloons at  
12 each of the three sites up until the conclusion of  
13 the field review?

14 THE WITNESS (Libertine): We were able  
15 to get the balloons up at each of the sites. Each  
16 of the sites were represented by a different  
17 colored balloon that were tethered to the full  
18 heights proposed at those locations.

19 Site A was represented by a blue  
20 balloon -- and these were all four-foot diameter  
21 balloons. Site B was represented by a purple  
22 balloon, and at site C we had a red balloon. All  
23 those balloons were up and aloft prior to 8 a.m.  
24 this morning.

25 Conditions as we saw today have been

1 spotty at best. There's been some periods of  
2 heavy rain with low visibility, and the winds have  
3 been fairly variable anywhere from being fairly  
4 calm to picking up and being in the double digits.  
5 So not an ideal day for viewing, but we have been  
6 able to maintain -- we did lose one balloon  
7 shortly before the site walk at site C, but that  
8 was replaced prior to the Council's site walk.

9 MR. MERCIER: Okay. Thank you.

10 Now just regarding the site access, we  
11 walked down an existing woods road. And I just  
12 would like someone to explain what the conditions  
13 of the road are right now, and including a  
14 substrate and width to the site, to the vicinity  
15 of site A and site B.

16 THE WITNESS (Weinpahl): The current  
17 road is approximately ten to twelve feet wide,  
18 which is dirt coming up Swedetown Road. And the  
19 plans are to improve that to a gravel road to, you  
20 know, any of the three site locations.

21 MR. MERCIER: Correct. And how about  
22 over to site C? Does it maintain its ten to  
23 twelve-foot width of the existing road to the  
24 vicinity of the compound?

25 THE WITNESS (Weinpahl): For the most

1 part it does. It's similar to the portion that we  
2 were able to walk up to where the vernal pool  
3 number two was encountered where we kind of turned  
4 back. But the road is fairly consistent  
5 throughout the entire path.

6 MR. MERCIER: And as for the proposed  
7 upgrades, is it simply just adding gravel to it?  
8 Or do you have to actually rebuild, I'll call it,  
9 the base of the road? Are you going to put some  
10 heavy base material on top of the existing, to the  
11 twelve-foot wide area?

12 THE WITNESS (Weinpahl): The plans are  
13 for a full access road installation sub -- subbase  
14 and finished gravel for whatever the three  
15 locations might be. Nothing needs to be re-graded  
16 for the most part. It's -- it's just going to be  
17 a general improvement of the current condition,  
18 which is mostly all dirt and some -- some ponding  
19 areas.

20 MR. MERCIER: Okay. So there won't be  
21 any existing excavation of the existing road per  
22 se. It's just going to be adding material and  
23 building it up?

24 THE WITNESS (Weinpahl): It's a material  
25 add on.

1 MR. MERCIER: Thank you.

2 Now during the upgrades I didn't really  
3 see any tree removal along with the -- in the site  
4 plans along the path of the existing roads,  
5 either -- at any of the sites, the existing road,  
6 that is. Would there be any wide-scale clearing  
7 for any curb locations, or just installing the  
8 base material and building the road?

9 THE WITNESS (Weinpahl): There might be  
10 one or two trees along the path should site C be  
11 the location, but generally all three locations  
12 require three to six mature tree removals for the  
13 compound and to have a construction.

14 They're all sited specifically to  
15 preserve the current wood -- wooded area and  
16 minimize tree removal on any of the three  
17 locations. So they're all similar in that regard.

18 MR. MERCIER: Now I understand that  
19 underground utilities will be installed from  
20 potentially a new pole along Swedetown Road at the  
21 site entrance there. When you install the  
22 utilities underground it's going to be adjacent to  
23 the road, or along the base of road, along the  
24 edge? Or is it going to be off to the woods a  
25 little bit more?

1           THE WITNESS (Weinpahl): It will be  
2 along the edge of the -- of either side of the  
3 access road. There will be a load crossing,  
4 because the pole line is along the west side of  
5 Swedetown. So most likely an overhead road  
6 crossing and then underground from there.

7           MR. MERCIER: Okay.

8           Would the installation of the utilities  
9 require any other types of tree removal besides  
10 what you just mentioned, three to six per site?

11          THE WITNESS (Weinpahl): It would be as  
12 encountered. For the most part we prefer to leave  
13 them on either side of the road, which can  
14 eliminate having to encase them in concrete,  
15 whether it's crossings, in other areas.

16          So for the most part it would be a  
17 direct burial wind conduit off to the edge of the  
18 gravel road. And there will be an easement as  
19 well that will be required for access and for  
20 utility easements as there will be primary power  
21 brought in from Eversource to any of the three  
22 locations.

23          MR. MERCIER: Now for the road to site C  
24 as it passes the wetland two area, you know, the  
25 two associated vernal pools right next to it,



1 vernal pool three and two. What type of  
2 construction activities -- first of all, I think  
3 in the field review someone stated that the actual  
4 roadbed itself is considered wetland soils. Is  
5 that correct?

6 THE WITNESS (Gustafson): There there's  
7 a small stretch located essentially between vernal  
8 pools two and three is where there are -- is  
9 wetlands that cut across the access road.

10 MR. MERCIER: Okay. If you could please  
11 describe --

12 THE WITNESS (Gustafson): That section  
13 is --

14 MR. MERCIER: Yeah. What construction  
15 activities will have occurred to make that a  
16 stable area for the future crossing?

17 THE WITNESS (Gustafson): I'll -- I will  
18 let Dave add into any of the comments I provide.

19 That stretch where we have an existing  
20 wetland area that cuts across the road is about 60  
21 linear feet. For that section what we're  
22 proposing is, right now it's mainly sheet flow  
23 during high flows. Like during today you'll see  
24 shallow sheet flows going across the access road.  
25 Otherwise it slowly seeps through the road base

1 and heads to the north.

2 With the proposed road improvements we  
3 would install what's called a French mattress,  
4 which is essentially course gravel and stone  
5 material wrapped in geo-textile fabric as the base  
6 layer. That would require excavating out a couple  
7 feet of the existing road base that cuts through  
8 that wetland crossing and replace it with that  
9 course material.

10 That will provide for subsurface  
11 conveyance of any water of surface, or subsurface  
12 water from -- from the north, from the south to  
13 the north to minimize any hydraulic impacts to  
14 either side of that wetland area. And then place  
15 the road base material on top of the French  
16 mattress material.

17 THE CHAIRMAN: Just to be clear, that's  
18 only if you were to utilize site C, but not impact  
19 site A and B?

20 THE WITNESS (Gustafson): That's  
21 correct. It's only for any access to site C.

22 MR. MERCIER: When you do the upgrade in  
23 that area to site C, the wetland area, would that  
24 impact the hydrology of the two upland -- two  
25 vernal pools adjacent to the road, this

1 installation of the French mattress?

2 THE WITNESS (Gustafson): No. I mean,  
3 the construction sequencing that we're proposing  
4 also includes both the wetland and vernal pool  
5 protection plan, which will include, you know,  
6 either myself or -- or one of our other wetland  
7 scientists on site with a contractor.

8 Provide them with some environmental  
9 training before they start construction, and then  
10 monitor that work to ensure that any of the  
11 excavation and placement of the French mattress  
12 doesn't alter hydrology to either wetlands or  
13 nearby vernal pools. But where we're proposing  
14 the French mattress is located in an area that  
15 wouldn't affect the nearby vernal pools two or  
16 three.

17 MR. MERCIER: Okay. So it's between  
18 those two. So there's no construction. Right?  
19 Of this crossing up to the edge? Okay.

20 THE WITNESS (Gustafson): It gets close  
21 to the edge of wetland three, but wetland three is  
22 actually hydraulically down gradient from that  
23 improvement area. So you know, we'll be boxing  
24 out that area with appropriate erosion and  
25 sedimentation controls to ensure that there isn't

1 any temporary impacts during construction.

2 MR. MERCIER: Thank you. During the  
3 walk it looked like I saw some, you know, maybe  
4 bedrock or some cobbles sticking out of the  
5 ground. Do you intend to blast at this site? Is  
6 that necessary to install any foundation or any  
7 compound equipment at any of the three sites?

8 THE WITNESS (Weinpahl): There, there  
9 was one section that appeared as well. I think  
10 that's -- it might be the only one I've seen.  
11 You'll recall on the majority of the road all the  
12 way out to site C as well -- that's not  
13 predominate, I don't believe, on the road at all.  
14 I don't expect any blasting.

15 THE WITNESS (Gustafson): Not even for  
16 the tower sites themselves, the foundation  
17 installation?

18 THE WITNESS (Weinpahl): You know,  
19 pending soil borings, but at this time, no.

20 MR. MERCIER: If there was rock and you  
21 weren't going to blast, how would you remove any  
22 cobble or stone? Through chipping or mechanical  
23 chipping, or something of that nature?

24 THE WITNESS (Weinpahl): It's  
25 required -- if bedrock is encountered anywhere we

1 would employ rock anchors for tower foundation  
2 anchoring if need be, or else they would have to  
3 be removed, and whatever measures are least  
4 invasive.

5 MR. MERCIER: Now for any of the three  
6 compound locations do you anticipate any  
7 difficulty with existing slopes, meaning do you  
8 need any retaining walls or heavy cuts and fill to  
9 build any of those three compound locations?

10 THE WITNESS (Weinpahl): No, we do not.  
11 Again, these were carefully sited originally to  
12 not have to install large retaining wall systems.

13 Site B we actually reconfigured the  
14 lease area just in the event of future  
15 development. That's the only rectangular leased  
16 area purposely to avoid going further to the east  
17 where the topography, you know, grades off a  
18 little bit quicker than other areas.

19 So we -- we looked at this fairly  
20 closely in terms of location to minimize tree  
21 disturbance and to also minimize any re-grading  
22 that would be needed.

23 MR. MERCIER: As for, you know, this  
24 general site location of the three sites here, has  
25 any emergency responder entities out in this

1 region of the state since the time of the  
2 application filing contacted you to potentially  
3 locate on this facility?

4 THE WITNESS (Candiello): No. Not that  
5 I'm aware of, no.

6 MR. MERCIER: One thing I did notice had  
7 to do with the Connecticut Airport Authority  
8 comments. You know, I was looking at their  
9 comments and also your FAA analysis in tab 18.  
10 The FAA analysis basically, you know, for all  
11 three sites basically said, possible impact to  
12 private landing facilities. And I guess  
13 Connecticut Airport Authority picked up on that,  
14 or did their own little database search.

15 So I'm just trying to understand what  
16 the intent of the FAA was. This is the first time  
17 I've ever seen, possible impact, rather than, yes  
18 or no. Do you have anything to elaborate on that?

19 THE WITNESS (Candiello): So the  
20 airspace -- the airspace studies that we ran for  
21 sites A, B and C revealed that we would not need  
22 to file with the FAA based on the location and the  
23 proposed tower heights.

24 And you know, as -- as you mentioned  
25 there is a possibility that there might be private

1 facilities that aren't registered and that's --  
2 and that's what we experienced. The Connecticut  
3 Airport Authority had reached out inquiring,  
4 letting us know that there are a couple of  
5 locations in the vicinity of this project.

6 And we -- we would -- once a final  
7 location is determined we would make sure that we  
8 made them aware of -- of the proposed site and  
9 what the height is going to be in the final  
10 location if approved.

11 MR. MERCIER: If one of the three sites  
12 was approved? I mean, is there going to be any  
13 followup with the FAA or the Connecticut Airport  
14 Authority, meaning it would be required once you  
15 contacted one of these two airports that you might  
16 need lights? Or has the FAA ruled them out?

17 THE WITNESS (Candiello): No. There's  
18 no lighting required here. So the airspace  
19 analysis that we ran revealed the fact that we  
20 don't need to file at all with the FAA, because  
21 we're not located within a certain distance to the  
22 airports.

23 THE WITNESS (Latorre): In reviewing the  
24 comments from the Connecticut Airport Authority I  
25 took the opportunity to reach out to the two

1 private airport owners -- although as  
2 Mr. Candiello correctly explained, Verizon has no  
3 federal, you know, requirements under the FAA to  
4 report back to the government agency at the  
5 federal level. There are two private airports.  
6 One is in Woodstock. The other one is the Buell  
7 Farm -- I believe it's in Eastford. I took the  
8 opportunity to reach out to both of those private  
9 airport owners.

10 At that point in time, in speaking with  
11 both of them they had been made aware of Verizon's  
12 proposal through a letter from the CAA, but they  
13 had not received any updated plans that provided  
14 Verizon's proposals.

15 I took the liberty of sending them plans  
16 along with a couple of other documents so that  
17 they could have a full review of these locations.  
18 We also pointed out to the private airport owners  
19 that in both of their instances there are  
20 facilities that are actually closer to their  
21 airports than the proposed Pomfret town facility.

22 In both instances I received affirmative  
23 responses back that they had received the plans,  
24 that they had reviewed them and that they had no  
25 particular concerns with the particular siting of



1           this tower in any of the three locations as it  
2           related to the operations and safety of their  
3           airport.

4                   MR. MERCIER: Thank You for all that  
5           additional information. It was extremely helpful.  
6           I just had a question regarding interrogatory  
7           response eleven that had to do with in-vehicle and  
8           in-building thresholds.

9                   I believe that -- let me locate the  
10          document. And this said in-building -- excuse me.  
11          Yeah, in-vehicle service was listed twice. I  
12          wasn't sure what threshold applies in this case  
13          for the LTE service.

14                   THE WITNESS (Latorre): Sure. I  
15          actually caught this myself shortly before the  
16          hearing started. So let me clarify that.

17                   For interrogatory question number eleven  
18          the response should read -- and I'm going to read  
19          the entire sentence for clarity -- Cellco's  
20          minimum design threshold for LTE service is  
21          negative 105 dBm received signal reference power,  
22          or RSRP for outdoor service; negative 95 dBm RSRP  
23          for in-vehicle service; and negative 85 dBm RSRP  
24          for in-building service.

25                   MR. MERCIER: Thank you.

1           And just to note to confirm that the  
2           plots you gave, those are for in-vehicle  
3           service -- that are attached. I just want to make  
4           sure that's the right one.

5           THE WITNESS (Latorre): That's correct.

6           MR. MERCIER: Okay. Thank you.

7           And flipping to interrogatory 21, that  
8           had to do with the use of the 2100 megahertz  
9           service at the site, and term "carrier  
10          aggregation" was used. Let's go a little more  
11          into that, because that's the first time I've seen  
12          that used in one of our interrogatory responses as  
13          to, you know, what it is and what's its purpose.

14          THE WITNESS (Latorre): Yes. Thank you.

15          Carrier aggregation is a software  
16          mechanism that can be deployed in an LTE network  
17          like Verizon's in order to provide a Verizon  
18          customer additional bandwidth in which to utilize  
19          Verizon's services for voice or data sessions.

20          The benefits of increased bandwidth  
21          include higher data throughputs, higher quality of  
22          service for voice, the ability to download and  
23          upload photos, videos, webpages faster. How it  
24          works is -- is that Verizon deploys a number of  
25          different frequencies, 700 megahertz,

1           2100 megahertz, in some cases 1900 megahertz and  
2           850 megahertz. Those frequencies all have  
3           particular bandwidths associated with them  
4           depending on Verizon's license holdings in an  
5           area.

6                        When carrier aggregation is deployed a  
7           Verizon customer has to be in the position where  
8           they can adequately receive signal from multiple  
9           frequencies. In this case the proposed Pomfret  
10          center facility's 700 megahertz and 2100 megahertz  
11          are part of the initial deployment strategy of  
12          frequencies.

13                      If a Verizon customer is in an area  
14          where they can access both the 700 megahertz and  
15          2100 megahertz signal, and their signal strength  
16          and signal quality are strong enough and of great  
17          enough quality as well as having a phone that is  
18          designed for carrier aggregation, the -- the  
19          software that works in between the LTE network and  
20          the phone will initiate carrier aggregation so  
21          long as the system is not overloaded.

22                      When carrier aggregation is implemented,  
23          so long as the Verizon customer maintains  
24          reasonable cell signals to both of those  
25          frequencies -- their pipe, if you will, the amount

1 of data that they can transmit will increase  
2 because they will be able to take advantage of  
3 both frequencies at the same exact time.

4 If the mobile device or Verizon  
5 customer, I'll say, moves away from the site in  
6 such a way that one of those frequencies becomes  
7 unavailable or unusable due to reduced power, or  
8 reduced quality of service, carrier aggregation  
9 will decommission itself. The Verizon customer  
10 won't lose service, but they will lose access to  
11 two of the channels at the same exact time. The  
12 end result will be that they'll maintain their  
13 service, but they may not experience download  
14 speeds and upload speeds as much as they would if  
15 they had carrier aggregation.

16 It's a wonderful software technique  
17 we've been deploying to further improve Verizon's  
18 quality of service as the demands of the network  
19 increase, and in particular as our customer's  
20 expectations for higher bandwidth, higher download  
21 and upload speeds increases.

22 MR. MERCIER: Okay. So for this site  
23 that technology or software would only be limited  
24 to the 2100 megahertz footprint pretty much. Once  
25 you're outside that, the greater 700 will take

1 over. There's no intermediate band that you're  
2 using or frequencies you're using right at this  
3 site?

4 THE WITNESS (Latorre): That's correct.  
5 By definition you need to have a reliable signal  
6 from at least two channels, in this case 700 and  
7 2100 megahertz in order to take advantage of it.

8 MR. MERCIER: Thank you. Now I'm going  
9 to go to response to interrogatory 22, since we're  
10 going through these. Basically I see that you  
11 rank the sites. For an RF perspective, site C is  
12 most preferable followed by A, then B.

13 I just had a question regarding the  
14 plots associated with the service proposed from  
15 all three sites that were included in the  
16 interrogatories. Of the 700 megahertz plots, I'm  
17 just trying to understand which of these three  
18 sites covers Route 198 the best. I can't even  
19 really tell if site A actually covers 198 or not.  
20 It seems it's kind of spotty, but that just might  
21 be a modeling problem.

22 I don't know if there's any other  
23 testing that was done to determine that, you know,  
24 Route 198, that's actually east -- excuse me, west  
25 of the site -- would have adequate coverage from

1 any of these three sites?

2 THE WITNESS (Latorre): My assessment in  
3 regards to the coverage on Route 198 is that all  
4 three of the facilities provides somewhat similar  
5 quality of service along Route 198. Going from A  
6 to C you see some improvement in service as you  
7 move further north on Route 198 north of the  
8 Pomfret center site, but south of the Woodstock  
9 Valley Connecticut site.

10 All three facilities appear to have some  
11 terrain blocking that may make in-vehicle service  
12 challenging in the area -- where it's noted, the  
13 Eastford Public School and town offices are.

14 You know, Verizon as part of its due  
15 diligence in addition to preparing these maps, you  
16 know, conducts drive testing and looks at a number  
17 of different performance characteristics to  
18 evaluate our level of service, you know, and our  
19 need to improve it in an area. We feel confident  
20 that any of the three facilities will allow  
21 Verizon to make some substantial service  
22 improvements in the area, you know, with site C  
23 because of its higher elevation giving us the  
24 greatest flexibility in making those enhancements  
25 to the area.

1           This is an area with some challenging  
2 terrain. And as with all of our facilities, upon  
3 activation of the facility Verizon will engage in  
4 optimization techniques both with this proposed  
5 facility and the surrounding facilities to ensure  
6 that to the greatest extent physically capable  
7 within the network that we maintain an improvement  
8 along these main roads as well as the residences  
9 and businesses that surround the proposed  
10 facility.

11           MR. MERCIER: Okay. So just so I  
12 understand your answer, you're saying that site A  
13 and site C would deliver adequate service to Route  
14 198, even though they're slightly different in the  
15 model. Looking at this, to me site A has a little  
16 bit more coverage on the existing white  
17 nonserviced area.

18           THE WITNESS (Latorre): Yeah, let me  
19 clarify my answer. It's my professional opinion  
20 that they all -- all three sites, A, B and C will  
21 provide improved service in areas of 198. And  
22 with all three of the facilities there may be some  
23 small pockets that, according to the model for  
24 in-building service, that may still be less than  
25 what Verizon deems reliable signal service.

1           MR. MERCIER: Okay. Thank you. And  
2           just to also expand upon what you just said about  
3           between site A and site C. I think you basically  
4           said that site C had a higher elevation. So it  
5           projected a little bit farther overall, just  
6           different areas --

7           THE WITNESS (Latorre): Correct.

8           MR. MERCIER: -- that don't currently  
9           have service?

10          THE WITNESS (Latorre): I'm sorry.  
11          Could you restate your question?

12          MR. MERCIER: Site C projects farther,  
13          you say. So it picks up more areas right now that  
14          don't have service, or it just overlaps with  
15          existing service?

16          THE WITNESS (Latorre): Site C has an  
17          approximate elevation increase in terms of ground  
18          elevation of about 15 feet compared with the sites  
19          A and B.

20          Site C does provide additional areas  
21          where in-building cover -- excuse me, let me  
22          rephrase that -- in-vehicle coverage would be  
23          brought to a level of service that site A and site  
24          B cannot do due to their lower elevation, although  
25          they are slightly taller towers.



1 I think your specific question is, you  
2 know, are there areas that site C can serve to  
3 improve service from not reliable for in-vehicle  
4 to reliable that site A and site B cannot? And my  
5 assessment is that's the case. I'll give one  
6 example.

7 If you look and compare the  
8 700 megahertz service on site A and you compare it  
9 to site C, and you look at an area of Route 97  
10 which is southeast of our Eastford, Connecticut  
11 site?

12 MR. MERCIER: Yeah, I see.

13 THE WITNESS (Latorre): Out along Route  
14 197 you'll see a slight improvement on that road  
15 there. And this is just one example. And again,  
16 you know, there's -- there's not a dramatic RF  
17 improvement, you know, between the three sites  
18 which is, you know, one of the reasons why all  
19 three of the facilities are presented to the  
20 Council and the public today.

21 But site C does have some minor  
22 topographical advantages to it that makes it of  
23 the three most desirable strictly from an RF  
24 perspective.

25 MR. MERCIER: Thank you. Now between

1 site A and site B, are these minor differences?  
2 Or there's one major area that you pick up with  
3 site A over site B, like maybe a section of road,  
4 a busy road? Or is it just overall a footprint  
5 that's just slightly degraded compared to site A?

6 THE WITNESS (Latorre): Yeah. To me,  
7 I'd say that they're minor. And I can't site one  
8 particular area or road that dramatically  
9 improves, you know, the relevancy of A in terms of  
10 its RF footprint over B.

11 MR. MERCIER: Okay. Thank you.

12 Mr. Libertine, I have a couple questions  
13 regarding the visibility analysis. Looking at the  
14 photo for behind tab 9, you know, you drove around  
15 to many locations. I think it's 31 listed here.

16 And then you, per Council request, you  
17 know, did a simulation of seasonal year-round  
18 visibility in the interrogatories attachment.  
19 There's a couple maps.

20 I guess my general question is, you  
21 know, looking south of all three sites there's a  
22 couple fields, you know, bordering State Highway  
23 244 and also some open areas on either side of  
24 Ragged Hill Road that, you know, are pretty much  
25 south of A and B, and C.

1           So I'm trying to figure out what is  
2 preventing views from those open areas and the  
3 roadways to any of these towers?

4           THE WITNESS (Libertine): It's primarily  
5 the combination of the topography and the dense  
6 tree cover at any time of year. Once you start  
7 moving away from the site proper -- I know today  
8 wasn't really a great day to really get a sense of  
9 this, but these, any of these sites at the  
10 proposed sites really don't eclipse the trees in  
11 any of the near views.

12           There are some locations further away  
13 that we documented over a mile away where you have  
14 some elevation gain where you can look back into  
15 the valley and see the three sites, but those are  
16 pretty remote and very short distances.

17           But in the near views it really is just  
18 a function of the fact that there's just so many  
19 trees. And although it's not as rugged in that  
20 immediate area, there's enough of a topographic  
21 break so that the -- the combination of those two  
22 really just prohibit the views to really extend  
23 much beyond that immediate area of the site.

24           As you can see in the interrogatories  
25 behind the attachment two where we had done the

1 modeling, the vast majority of views are seasonal.  
2 So you're talking about looking through the trees.  
3 And again, you would not be looking at the top of  
4 the tower. You're really looking at lower  
5 portions of the pole that would be visible through  
6 the trees.

7 The little bit of an exception is where  
8 there may be an eclipse of the tree cover in some  
9 very remote spots, but again this is based on  
10 modeling what we saw in the field during the  
11 winter months when we flew all of these. We  
12 actually had put what we call spotting balloons up  
13 50 feet above the proposed heights.

14 So we actually had our balloons, three  
15 different colored balloons at the tethered height  
16 of the facility itself. And then we put white  
17 balloons up above those 50 feet so that as we  
18 drove around we had an opportunity to see and look  
19 towards each of those tower locations.

20 And even when we put the balloons up at  
21 50 feet above the proposed heights there were very  
22 minimal areas where you could see even the  
23 spotting balloons. So all that said, the extent  
24 of visibility is not going to reach that far south  
25 onto State Highway 244, which happens to be a

1 scenic road and was one of our areas that we  
2 wanted to make sure that we had covered.

3 And as you know, as demonstrated in the  
4 modeling, sites A and B which are closer to  
5 Swedetown Road, there will be some pockets of  
6 seasonal visibility, more so with site A just  
7 because of its possibility. But again, we're  
8 talking about when the leaves are totally off the  
9 trees, and you'd be looking through the trees and  
10 not really seeing the full facility. You're  
11 really talking about portions of the pole.

12 We do have some photographs that  
13 demonstrate or at least give a good representation  
14 of that. And then with respect to C, site C just  
15 doesn't reach any of the nearby roads in terms of  
16 visibility just because of its location on the  
17 property fairly well back off the road.

18 MR. MERCIER: Now you were saying that  
19 site A, you know, according to your modeling and  
20 what you just stated, and potentially site B would  
21 be visible from some sections of Swedetown Road  
22 and maybe more so for site A along the corner of  
23 Ragged Hill. It looks like a residential  
24 structure at the corner there, the northwest  
25 corner.

1           Do you believe they'll see the compound  
2           and tower through the trees from that residential  
3           or corner area?

4           THE WITNESS (Libertine): Certainly a  
5           good amount of that pole will be visible at site A  
6           and I would suspect that when the leaves are  
7           totally off the trees and this is fully built out,  
8           that site A you'd see a portion of the compound,  
9           not so with site B.

10           In terms of residences, as I say, there  
11           are one or two very brief locations on Swedetown  
12           Road where we were able to look through the trees  
13           and be able to see the balloon at site B. So I  
14           think there are probably one or two locations,  
15           again just along the road and really on the near  
16           side of the road for site B.

17           And then again, with site C there's just  
18           no visibility that extends out of the road itself.  
19           So yes, I would say site A certainly has potential  
20           to have views from that nearest residence to the  
21           southeast -- southwest, excuse me.

22           MR. MERCIER: Now would the tower just  
23           be a galvanized gray finish, you know, factory  
24           finish? Or is there any type of painting proposed  
25           at the site?

1           THE WITNESS (Libertine): We have not  
2 proposed any type of painting. Certainly that's  
3 at the Council's discretion for us to consider. I  
4 think if we were talking about a location A, or  
5 site A being built out that there may be some  
6 benefit in doing some type of camouflaging of the  
7 pole itself and the antennas themselves. I don't  
8 think it would be necessary at B, and certainly C  
9 would not be necessary at all.

10           And if you'll allow -- if this is  
11 helpful, I know we go through this type of  
12 analysis where -- where Mr. Latorre would look at  
13 it, you know, if we all put our blinders on. And  
14 he said, RF, this is -- would be my preference.

15           And I strictly put my blinders on and  
16 said, from a visibility perspective site C  
17 certainly is the best of the bunch.

18           Site B is a pretty close second in terms  
19 of overall visibility and near views to residences  
20 in terms of really being minimized or mitigated.  
21 Site A certainly is kind of a distant third when  
22 it comes to visibility, because there is more  
23 visibility associated with that.

24           And that I've asked Mr. Weinpahl at some  
25 point to put his blinders on because we have

1           constructibility issues as well. So we always  
2           balance those, those three, but one of the reasons  
3           we looked at all of these alternate sites was we  
4           heard from residences when -- or residents when we  
5           came out who felt as though site A just was not  
6           put far enough into the property. Give some  
7           distance to those nearer property lines. And so  
8           that's why we really wanted to evaluate some of  
9           these alternate sites that went deeper into the  
10          woods.

11                       MR. MERCIER: I think you said maybe,  
12           you know, consider painting site A. Is that just  
13           because you think the galvanized finish will have  
14           a glare to it visible through the woods?

15                       THE WITNESS (Libertine): Not so much a  
16           glare, but I think it would be during the winter  
17           months you would probably be able to pick that out  
18           easier. And certainly my reconnaissance when we  
19           were focused on site A two years ago, or even a  
20           little bit further back than that, that particular  
21           residence did have -- they were really the only  
22           ones impacted from a visual standpoint.

23                       And so I think anything that could be  
24           done to soften that and just more or less blend  
25           that in -- because again, I think the major views



1 in the wintertime are going to be primarily of the  
2 upper proportions of the pole. And if you were  
3 going to be considering any type of painting I  
4 would do something muted. That would be closer to  
5 what, you know, the tree -- I'm not necessarily  
6 saying it has to be brown, but there are other  
7 options that could be done to make it a little bit  
8 softer.

9 MR. MERCIER: Thank you. One of our  
10 administrative notice items is the Last Green  
11 Valley Heritage Corridor. And you know, the town  
12 of Pomfret was within this congressional  
13 designated corridor. So are you aware of any  
14 cultural resources in close proximity to the site  
15 that would be visible, or impact those cultural  
16 resources when the tower is built?

17 THE WITNESS (Libertine): In this case?  
18 No -- and you're absolutely correct. We're smack  
19 dab in the middle of the National Heritage  
20 Corridor up here, but in terms of both  
21 cultural/historic and natural resources, other  
22 than the fact that we have, you know, a beautiful  
23 wooded setting up there, in terms of recreational  
24 areas or areas of significance there really aren't  
25 any other than that stretch of 244 that runs

1 through the southern portion of what we consider  
2 our study area from a visibility standpoint.

3 The town has a recreational park.  
4 There's a state park in town, but those are much  
5 further to the south and southeast. And  
6 certainly, visibility does not extend anywhere  
7 near to those.

8 So overall I don't believe that there  
9 are certainly aesthetic impacts associated with  
10 any effects on the National Heritage Corridor.

11 MR. MERCIER: Now I understand you'll be  
12 doing, if any of these sites are approved, a  
13 National Environmental Policy Act filing --

14 THE WITNESS (Libertine): Correct.

15 MR. MERCIER: -- for the specific site  
16 if one is selected. Is there a component of that  
17 that deals with the Heritage Corridors? Or is  
18 there any other? If not, is there an independent  
19 notification required to any of the managers of  
20 the heritage corridor?

21 THE WITNESS (Libertine): There are  
22 none. And to your first point, under the National  
23 Environmental Policy Act there are certainly  
24 categories to be looked at, but the designation of  
25 the area as -- as a corridor itself is not. We

1 certainly do look at whether a wildlife refuge,  
2 wilderness areas and -- and those type of  
3 resources, but specific to this designation, no,  
4 there is none.

5 MR. MERCIER: Okay. Thank you.

6 My final question has to do with  
7 attachment A of the interrogatories -- I think  
8 it's A. Excuse me, attachment two. It's a public  
9 water supply, watershed map aquifer detection  
10 area, mapped areas. It shows the site property.  
11 I see the boundaries, and I see the proposed  
12 sites. You know, there's lines, dots. And then  
13 there's a triangle and a square.

14 I'm just trying to figure out what the  
15 square represents if anybody knows, and also what  
16 the triangles represent?

17 THE WITNESS (Libertine): Bear with us  
18 just a moment.

19 The square is the small parcel that's  
20 cut out of -- we cross-referenced the site plans  
21 behind tab one, site location -- well C5, which  
22 has -- I'm sorry. C0. I was referencing the  
23 wrong sheet. Sorry.

24 The lot that's off Ragged Hill Road that  
25 looks more or less on this map as somewhat cutting

1 into the west side, southwest side of the parcel.  
2 It's designated as 06B00101. We believe that's --  
3 that's just representing that particular parcel.

4 Now as to the triangles, there must  
5 be -- well, we're going to have to find out and  
6 get back to you on that. That came off of,  
7 obviously, the base map.

8 MR. MERCIER: I'm just curious. Thank  
9 you.

10 THE WITNESS (Gustafson): We'll take it  
11 as a homework assignment.

12 MR. MERCIER: Sure. Thank you.

13 I have no other questions at this time.  
14 Thank you.

15 THE CHAIRMAN: Thank you. Let's start  
16 with a question from the Council. Senator Murphy?

17 MR. MURPHY: Thank you, Mr. Chairman. I  
18 just have a few things.

19 On the RF, this tower could potentially  
20 go up 20 feet. If it were to be increased 20 feet  
21 at some time in the future, be it A, B or C, if  
22 one is approved, would Verizon move up to the top  
23 of the tower at the time? Or would you continue  
24 to be satisfied with the height of whatever tower  
25 of the three is approved, if one is approved?

1           THE WITNESS (Latorre): Thank you for  
2 your question. Verizon has proposed all of these  
3 facilities A, B and C with the centerline proposed  
4 150 feet for A and B, 130 feet for C, based on  
5 Verizon's perceived immediate needs for service in  
6 the area as well as future looking to provide, you  
7 know, adequate service and capacity.

8           I can't say with a hundred percent  
9 confidence that 20 or 30 years into the future  
10 that there might not be a need to -- should there  
11 be an extension of the tower, that Verizon might  
12 not take that opportunity to move up, for example.  
13 And perhaps Mr. Libertine or Mr. Gustafson want to  
14 speak to it.

15           If any of the trees in the area are not  
16 fully matured, if they grow over time there could  
17 be a need to increase Verizon's height to ensure  
18 that we continue to broadcast in a manner --  
19 manner that we can provide our services at the  
20 signal strength we expect.

21           The other potential possibility is that  
22 the acquisition of additional spectrum over time,  
23 or new services that are provided for Verizon's  
24 service in the future could necessitate a higher  
25 installation to make that service worthwhile to

1 Verizon's customers. But you know, for the  
2 purpose of what Verizon is building today and the  
3 immediate future, you know, if there was a need to  
4 increase the height I couldn't see an  
5 immediate reason why Verizon would then move up as  
6 well.

7 MR. MURPHY: Which kind of deals with  
8 all my other questions about whether Verizon has  
9 surely done plans for the area -- that you have,  
10 whatever they may be. You've taken that into  
11 account and you're satisfied with the requested  
12 height of each one of those three towers, at least  
13 as you view it for the foreseeable future?

14 THE WITNESS (Latorre): That's correct.

15 MR. MURPHY: Okay. Thanks.

16 Mr. Libertine, in the visibility factor,  
17 the 20 feet up thing. And I'm curious, as I  
18 understand your testimony you flew the balloons at  
19 the height plus 15 feet with a white balloon on  
20 top?

21 THE WITNESS (Libertine): Right.

22 MR. MURPHY: Why 15 and not 20?

23 THE WITNESS (Libertine): Oh, I'm sorry.  
24 We did 50, five-oh when we did the spotting  
25 balloon.

1 MR. MURPHY: Fifty feet high?

2 THE WITNESS (Libertine): 50 feet. Yes.

3 MR. MURPHY: Sorry. I heard it as 15  
4 and wrote 15 down. I apologize.

5 Why?

6 THE WITNESS (Libertine): We did 50  
7 arbitrarily just so that we could get  
8 significantly above where we were. We've done  
9 this on several sites, because what we have  
10 found -- especially when we're in areas like this  
11 where we have some fairly dense and large swaths  
12 of forest, it's not uncommon when we start putting  
13 sites into the interior of properties that they're  
14 very difficult to see when you're floating a  
15 ballon.

16 And so we have made it more or less a  
17 standard operating procedure to put a balloon up  
18 as a spotting balloon. And in this case, as I  
19 say, we normally do about 50 feet above the  
20 proposed height so that we have a very good  
21 confidence level that we have it high enough. So  
22 that if it's going to be seen we're going to be  
23 able to see it.

24 There's no scientific reason for it. We  
25 just pick 50 feet. And typically because we're

1 talking about towers anywhere from 120 to 150 feet  
2 in height we try to keep the balloons under 200  
3 feet just so we don't have airspace situations if  
4 we're close to airports and that type of thing as  
5 well.

6 MR. MURPHY: I apologize for having  
7 misheard your on that.

8 THE WITNESS (Libertine): No apologies  
9 necessary. I have to speak more clearly.

10 MR. MURPHY: So your answer to  
11 Mr. Mercier really covers the question about the  
12 visibilty, where it would be if it goes up?

13 THE WITNESS (Libertine): Yeah, if  
14 you're talking about going up a 20-foot increase,  
15 I don't think there would be a substantial  
16 difference. I do believe that at site A, again if  
17 we're talking about very near views, the nearest  
18 residence, that type of thing, the character could  
19 change because it might be a taller imposing  
20 structure.

21 But in terms of overall visibility and  
22 extending it to areas where we're not seeing it  
23 today, I don't believe that would be the case.

24 MR. MURPHY: And Mr. Gustafson, of the  
25 three sites being proposed in your opinion which



1 one is the least damaging or harmful to the  
2 environment?

3 THE WITNESS (Gustafson): Certainly from  
4 either a wetland or a vernal pool impact  
5 perspective on this property, both sites in A and  
6 B would be the preferred location.

7 Site C we could, you know, construct  
8 that with minimal impact, but by providing a  
9 comparative analysis between the three certainly  
10 sites A and C are -- are highly preferred over  
11 site C.

12 MR. MURPHY: And is the difference  
13 between A and B and one lump in C something that  
14 should be seriously considered? Or it's more, and  
15 it should be considered as more?

16 But if there's the benefits and the  
17 choice is C, C should go in as the preference and  
18 not be outweighed by the environmental  
19 considerations?

20 THE WITNESS (Gustafson): There's really  
21 no difference --

22 MR. MURPHY: That's almost a bad  
23 question.

24 THE CHAIRMAN: It's sort of unfair, but  
25 go ahead and try to answer it -- if you want.

1           THE WITNESS (Gustafson): I mean,  
2           there's really no difference between sites A and  
3           B. They're both about the same distance from the  
4           nearest wetland and vernal pool resource.

5           You know, compare -- comparatively site  
6           C, you know, you will have a lot of construction  
7           activity, although that would be somewhat  
8           temporary in nature. You do have a lot of  
9           construction activity in proximity to wetland  
10          resources and several vernal pools.

11          MR. MURPHY: But in C is the damage  
12          going to be lasting, that it should affect things  
13          on the longterm?

14          THE WITNESS (Gustafson): Provided the  
15          construction is completed in accordance to our  
16          plans and protection measures, the long-term  
17          impacts would be minimal with site C.

18          You would still have some, some  
19          long-term impacts associated with the maintenance  
20          of site C, although your traffic generation,  
21          you're talking maybe, you know, an inspection once  
22          a month. So that's very minimal traffic, but it  
23          is, you know, comparatively, you know, it  
24          wouldn't -- if you went with site A or B there  
25          would be no impact at all.

1           So you know, we could certainly -- if,  
2           you know, site C was the only thing on the table  
3           we could certainly manage the construction  
4           properly to minimize the short-term impacts.  
5           And -- and the long-term impacts are fairly minor  
6           provided the road is maintained properly over the  
7           course of the facility operation.

8           MR. MURPHY: Thank you.

9           I have no other questions, Mr. Chairman.

10          THE CHAIRMAN: Mr. Hannon.

11          MR. HANNON: Thank you, Mr. Chairman. I  
12          do have some questions.

13                 First of all, I want to get a  
14                 clarification on something that was said earlier  
15                 with one of the questions raised, and I just want  
16                 to make sure I understand it. The comment had to  
17                 do with the roadways to the three different sites  
18                 and I thought what was said is it's really just  
19                 material upgrades that would be added to the  
20                 roads. And I'm assuming that by that it's just  
21                 adding a little bit of gravel.

22                 And the reason I raise that question is  
23                 because on sheets C2, C3 and C4, each one of them  
24                 talks about reconstructing the existing access  
25                 road. And that to me means a lot more work than

1 just going in and adding a little bit of gravel.  
2 So can you please clarify that?

3 THE WITNESS (Weinpahl): I'm looking for  
4 the exact area on the -- on the plan where --

5 MR. HANNON: Which map are you looking  
6 at?

7 THE WITNESS (Weinpahl): I'm on C3.

8 MR. HANNON: Okay. For C3 the note that  
9 says, reconstruct existing gravel road is at  
10 about -- it's just up from elevation 810 on the  
11 driveway.

12 THE WITNESS (Weinpahl): Okay. Yeah, it  
13 considers existing access road.

14 MR. HANNON: And that's listed on all  
15 three sheets. So in essence it's talking about,  
16 to me, reconstructing the roadway the entire way  
17 from the existing road up to the site.

18 THE WITNESS (Weinpahl): That's --  
19 that's intended to indicate an improvement to the  
20 existing dirt road that's there. That wasn't  
21 what -- there's not much gravel there now, and  
22 it's to make, you know, a subbase improvement and  
23 to continue gravel and have a continuous gravel  
24 access to each of the locations as needed.

25 There's not a plan to excavate two or

1 three feet from the existing road and then replace  
2 that, or anything to that extent.

3 MR. HANNON: No, but to me, going in and  
4 adding a little bit of gravel is significantly  
5 different than reconstructing the entire road. So  
6 I'm just trying to make sure that I --

7 THE WITNESS (Weinpahl): The wording  
8 perhaps could have been a little bit clearer on  
9 the intent.

10 THE WITNESS (Gustafson): And if I could  
11 just add to that? The only exception to that rule  
12 would be where we're --

13 MR. HANNON: I caught it.

14 THE WITNESS (Gustafson):

15 -- reconstructing the existing wetland  
16 crossing with the French mattress.

17 MR. HANNON: Yes, I circled that one,  
18 too.

19 I'm hoping that people in the Council  
20 don't freak out on this, because I'm actually  
21 going to be asking a question about the megahertz  
22 coverage. Yeah, I usually don't go in that  
23 direction.

24 But based on the coverage maps that have  
25 been provided I'm interested in getting a response

1 in terms of the megahertz coverage that can best  
2 impact -- and I may get this wrong in the  
3 pronunciation, and it's one of our state parks --  
4 it's Mashamoquet Brook State Park.

5 I think most of the coverage differences  
6 are with the 700 megahertz. I don't think there's  
7 much of a difference at all on the 21, but just in  
8 terms of what I'm seeing I just want to get a  
9 clarification from you in terms of what would be  
10 the best coverage -- or best increase in coverage  
11 at that state park.

12 Do you know where the park is?

13 THE WITNESS (Latorre): I can see it.

14 MR. HANNON: Okay. I was just going to  
15 say it's right under Pomfret.

16 THE WITNESS (Latorre): Actually, give  
17 me one second. I do apologize. I was looking at  
18 Mashamoquet Brook and not the state park.

19 MR. HANNON: Yeah, the state park is  
20 just below where you've got Pomfret town?

21 THE WITNESS (Latorre): I do have it.  
22 Thank you.

23 So my assessment in terms of the  
24 proposed facility providing improved in-vehicle  
25 service to -- and I might get this pronunciation

1 wrong, too -- Mashamoquet Brook State park.

2 Site C will provide the greatest  
3 improvement in service to that state park in terms  
4 of square mileage covered of improved and reliable  
5 in-vehicle service. After that would be site A,  
6 and the last site would be site B. Site B in  
7 particular provides almost no meaningful  
8 improvement, but site C and then site A do provide  
9 a significant improvement.

10 MR. HANNON: Okay. So that's what I  
11 had. So after five years I'm actually getting a  
12 better feel for the coverage. On map -- tab 1,  
13 map C5 this may sound like a very dumb question  
14 because it's very obvious, but I want to get it on  
15 the record.

16 THE CHAIRMAN: I will never get there  
17 until you give me interactive GIS maps, and we're  
18 never going to get there. So --

19 MR. HANNON: What is sort of the base  
20 elevation that's being proposed at site C?

21 THE WITNESS (Latorre): The base  
22 elevation for site C is 833 feet.

23 MR. HANNON: Okay. That's coming up.  
24 So you'll see where I'm going with this. Behind  
25 tab 11, on page 3 -- I guess this is going over to

1 Mr. Gustafson. There's a reference made to  
2 potential vernal pool number six saying, it did  
3 not contain any vernal pool indicator species.  
4 And then going back and looking at it -- I wanted  
5 to say it's map, I think, seven. It's in the maps  
6 section, vernal pool maps.

7 I just want to get a clarification as to  
8 what you found out there, because it sounds like  
9 there really wasn't anything specifically found at  
10 this particular vernal pool where there was at  
11 some of the others?

12 THE WITNESS (Gustafson): That's  
13 correct. So we did a couple of different  
14 inspections during the springtime when there was  
15 active breeding in these vernal pools -- in at  
16 least four, four out of the six. So the  
17 exceptions were vernal pool four and vernal pool  
18 six. We did find evidence of active breeding by  
19 either wood turtle -- I mean, wood frog or spotted  
20 salamander, which are both indicate a vernal pool  
21 species.

22 When we searched vernal pool four and  
23 then vernal pool six, which is in a much larger  
24 area we didn't find any evidence of breeding. We  
25 still classified them as potential vernal pools



1 because particularly when you have these kind of  
2 meta-populations in the vernal pools the breeding  
3 locations can change from year to year, season to  
4 season.

5 So at least for our times of inspection  
6 we didn't notice any breeding in the vernal pool,  
7 with potential vernal pool six, but there's no  
8 guarantee that, you know, next year we might -- if  
9 we did an inspection we could actually find  
10 breeding in that pool.

11 MR. HANNON: Okay. And then could you  
12 just clarify that sort of dashed blue line that's  
13 going from the area of vernal pool four and vernal  
14 pool five now to potential vernal pool six. I'm  
15 just not sure exactly what that dashed light blue  
16 line is.

17 THE WITNESS (Gustafson): So it's -- it  
18 actually shows up in the legend. It's the last  
19 item on the left column. So those are -- that  
20 dashed lined represents field identified  
21 approximate wetland boundary. So we didn't -- we  
22 didn't flag that section of the boundary because  
23 it was so distant from the proposed activity, but  
24 we did approximate its location in the field and  
25 provided that information on this map.

1 MR. HANNON: Okay. Thank you.

2 THE WITNESS (Gustafson): Your welcome.

3 MR. HANNON: Now is the test, two maps  
4 at one time. The submittal for the responses to  
5 the Siting Council interrogatories, the last map  
6 on that page. And then also looking at tab --  
7 behind tab 1, map C0. Map C0 identifies a number  
8 of properties along Ragged Hill Road, but in  
9 particular is 06-C-003.01 through .04.

10 Do you see what I'm looking at there?

11 So looking at the last page in the  
12 answer to the interrogatories, can you tell me  
13 what the topography elevation is on the -- what?  
14 I guess, the northeast side of Ragged Hill Road  
15 is?

16 THE WITNESS (Libertine): It's  
17 approximately 820 feet.

18 MR. HANNON: 830 maybe?

19 THE WITNESS (Libertine): Well, 830  
20 tends to go into the property.

21 MR. HANNON: Yeah, it's more two, three  
22 and four that it's at 830, if I'm reading it  
23 correctly.

24 THE WITNESS (Libertine): Okay. A  
25 little bit further south.

1           MR. HANNON: Yeah, just clips the  
2 corner. Okay. And going back to an earlier  
3 response, the elevation of the cell tower proposal  
4 at site C is 832, 833. So maybe a two, three-foot  
5 elevation difference. Correct?

6           THE WITNESS (Libertine): Correct.

7           MR. HANNON: And then based on what was  
8 not found at potential vernal pool number six, has  
9 anybody took a look at putting in a proposed  
10 access road to site C from Ragged Hill Road?

11          THE WITNESS (Gustafson): Yeah. So we  
12 looked -- I've been involved in this project for  
13 at least six, seven years on and off for Verizon  
14 Wireless. And we've investigated a number of  
15 different access routes and other alternate  
16 locations, as -- as summarized in the site search  
17 summary.

18          There are -- there is an existing woods  
19 road that comes in from Ragged Hill Road that more  
20 or less leads towards the site C location. There  
21 are a couple of issues associated with that  
22 access. From an environmental perspective the --  
23 there's -- it doesn't reflect -- it's not really  
24 reflected, I don't believe, in any of the mapping  
25 that we've supplied as part of this docket.

1           But you can see from the potential  
2           vernal pool map that we referenced earlier there's  
3           a broad wetland corridor that essentially drains  
4           from vernal pool -- potential vernal pool six  
5           northward towards wet -- wetland two.

6           And although it's somewhat similar in  
7           characteristics to the proposed access route to  
8           site C where we're crossing wetland two, the  
9           wetland crossing is much larger. It's at least  
10          three times the size of our proposed crossing to  
11          site C through wetland two. So it would have  
12          considerably larger direct wetland impacts, and --  
13          and it's actually located fairly close to the  
14          north of potential vernal pool six. So there is  
15          that.

16          The other issue is that in talking with  
17          the property owner, the -- the, more or less, the  
18          trust that manages the property, they have future  
19          plans of potentially at least providing house lots  
20          along Ragged Hill Road. So they didn't want to  
21          encumber that with another access road cutting  
22          through there. So there are a couple of issues  
23          associated with providing an access road directly  
24          from Ragged Hill Road.

25                 MR. HANNON: Okay. But it was looked

1 at?

2 THE WITNESS (Gustafson): It was. Yes,  
3 it was. It was investigated and I was part of  
4 that investigation.

5 MR. HANNON: Okay. I do not have any  
6 other questions.

7 THE CHAIRMAN: Mr. Edelson?

8 MR. EDELSON: So I guess I'm sitting  
9 here and I realized I have a little bit of a  
10 process question, because this is, I think,  
11 different in the fact that we have three sites to  
12 consider.

13 So I guess my question, maybe to  
14 Mr. Baldwin, are you looking to the Council to  
15 give a thumbs up or a thumbs down on each of the  
16 sites? Or are you asking us to help you  
17 prioritize the three sites and choose one that we  
18 think would be best to go forward with?

19 What is it that you're requesting that  
20 we do with the three sites? If somebody else has  
21 the answer and I'm just being dumb about it,  
22 please jump in.

23 MR. BALDWIN: Well, I think as we  
24 presented them in the application, Mr. Edelson, we  
25 presented the Council with three alternatives

1 which are submitted or proposed in direct response  
2 to comments we've received through our municipal  
3 consultation process.

4 And we've presented -- with the  
5 exception of Mr. Weinpahl and Mr. Candiello, our  
6 professional -- professionals' opinions as to  
7 which sites they would prefer, but because they  
8 each present Verizon with an opportunity to  
9 provide service to the area in roughly equal  
10 fashion we have presented them all to the Siting  
11 Council as options.

12 So we're looking for -- we would, of  
13 course, ask you to approve one of the locations  
14 based on your criteria and your review of all  
15 three, and consistent with your criteria select  
16 the site that you believe best satisfies those  
17 criteria.

18 MR. EDELSON: Because this came up with  
19 the question of prioritization, and again that  
20 seemed different than what we're usually looking  
21 at.

22 So I guess going to visibility, just so  
23 I'm sure of this, none of the sites or none of the  
24 places you did visibility analysis from had all  
25 year-round visibility. It was just all seasonal?

1           THE WITNESS (Libertine): No. No, I  
2 would say with the exception of site A, there is  
3 year-round visibility that will extend slightly  
4 onto portions of Swedetown Road. And I do believe  
5 the resident to the south-southeast would also,  
6 arguably even with leaves on the trees, might be  
7 able to see through. That's not as well reflected  
8 on this map.

9           MR. EDELSON: They seem to have the  
10 black dot in the middle. That's what I was  
11 wondering.

12           THE WITNESS (Libertine): I would say  
13 that I think any of the sites are not going to be  
14 highly visible. And even site A would fall into  
15 that category, but it -- without being able to  
16 step onto someone's property this time of year and  
17 actually view it, it's impossible for me to say,  
18 hey. You know, there's no way they're going to  
19 see this.

20           I just think it's closest -- closest  
21 proximity to a home certainly raises the potential  
22 that even when the leaves are on the trees there  
23 may be some views through the trees. It's not  
24 significantly far off that property line. It's  
25 only about 260 feet off the property line itself.

1 MR. EDELSON: And again, the map has a  
2 lot of coverage there.

3 THE WITNESS (Libertine): Correct.

4 MR. EDELSON: Some of these maps that  
5 have, you know, are yellow or green, are some of  
6 those on the property owner himself as opposed to  
7 a resident?

8 THE WITNESS (Libertine): Oh yes, the  
9 vast majority of the visibility falls on the host  
10 property, or the property owners, the landlord's  
11 property, yes.

12 MR. EDELSON: Can you, like, quickly  
13 identify them? Because it's kind of hard for, you  
14 know, they're all right on that road there.

15 THE WITNESS (Libertine): Sure.

16 MR. EDELSON: Some being a little to the  
17 left, or a little to the right.

18 THE WITNESS (Libertine): If we look at  
19 proposed site A, essentially if we -- and that's  
20 behind tab -- attachment three of the  
21 interrogatories -- or Exhibit 3, excuse me.

22 And if you were to -- it might be  
23 helpful to cross-reference behind tab one the site  
24 plan C0. That would at least give you an idea of  
25 what we should have done was -- now that I'm



1 looking at this, it would have been a little bit  
2 easier for everyone if we had had the property  
3 boundary.

4 The problem with this is the property  
5 boundary almost falls off this whole map. So it  
6 doesn't really do it justice, but our property  
7 runs essentially up to Quarry Road, which is to  
8 the north on the map itself.

9 So as you can see, the stretch of road  
10 from the intersection of Ragged Hill and Swedetown  
11 with the exception of one residence on the  
12 right-hand -- on the, I guess I'd call it the west  
13 side of the road, there really isn't a lot going  
14 on.

15 If you look -- if you drove that road  
16 you can see also there's just not a lot of  
17 development in that section. Most of that, that  
18 visibility is on site A. It does follow the  
19 property owner's land, but it does extend somewhat  
20 into the road base itself and then just a little  
21 bit to the south on Ragged Hill Road.

22 You'll notice if you switch over to site  
23 B on the next page of the mapping how that begins  
24 to shrink in terms of the footprint that extends  
25 out to the road, and that's strictly a function of

1 just being deeper into the property and there  
2 being more wooded buffer to be able to block that  
3 even with leaves off the trees.

4 Just finishing it out, if you flip to  
5 the next page with site C, on that map again, just  
6 because strictly a function of location, by  
7 pushing it off further to the east into the  
8 property we're again moving that visibility,  
9 seasonal visibility more to the interior of the  
10 property itself.

11 Does that answer your question?

12 MR. EDELSON: I think so, yeah.

13 Now when we were out there it was  
14 mentioned that this property is multiple uses by  
15 the owner. Is there anything in the lease that  
16 would -- because a lot of the visibility is a  
17 function of the trees that are there. We  
18 understand that it is an area that is logged.

19 Is there anything that says there's  
20 going to be a visual buffer in terms of trees that  
21 will remain between -- just for argument's sake if  
22 we went with site A, between site A and the road,  
23 because that would potentially change the  
24 visibility?

25 THE WITNESS (Libertine): It certainly

1           could if that was cleared. Not to my knowledge.  
2           That would not be something normally in the lease.  
3           Normally my understanding is Verizon has control  
4           over the lease area, which would be the hundred by  
5           hundred.

6                       MR. EDELSON: Because obviously once we  
7           give approval to put it there and the property  
8           owner changes the use in some way, like clearing  
9           it, that changes everything --

10                      THE WITNESS (Libertine): It certainly  
11           changes the characteristics, no question.

12                      MR. EDELSON: Okay. So -- and again,  
13           maybe this is more for my edification, but with  
14           the 2100 megahertz coverage, it seems so small if  
15           I'm looking at it right. And site C seems to give  
16           less coverage for 2100 than A or B.

17                      But you know, having just been out there  
18           where, if I'm looking at the map correctly, that's  
19           where the new coverage from the 2100 will be. Not  
20           a lot of customers out there. Not a lot of road  
21           traffic that I saw. I'm almost wondering why even  
22           bother putting 2100-antennas up there,  
23           2100 megahertz antennas?

24                      THE WITNESS (Latorre): Sure. Great  
25           question. So generally speaking we can always

1 expect that the 2100 megahertz service will have a  
2 smaller footprint than the 700 megahertz service.  
3 That's a higher frequency and more susceptible to  
4 loss from things like leaves and trees, and things  
5 like that.

6 As it relates to this particular site, I  
7 agree with you. It is a relatively small  
8 footprint.

9 And you, know, first let me answer your  
10 question. You know, why even put it out there?  
11 Verizon is seeing, along with other carriers,  
12 unexpected and unanticipated growth in demand for  
13 its services. And I think the fact that where  
14 typical facilities now are, you know, from day one  
15 starting with two and in some cases more sets of  
16 frequencies, you know, from day one is indicative  
17 of the fact that Verizon is doing everything at  
18 its -- that it can to stay ahead of the demand for  
19 services.

20 As I mentioned previously to the  
21 Council, you know, when a facility is built one of  
22 the first things we do is look for optimization  
23 opportunities depending on whether or not we can  
24 shrink the footprints of adjacent facilities or  
25 increase the footprint of our proposed facility,

1 and that will be one of the things we certainly  
2 look at it.

3 In my professional experience I have  
4 found that even with very small, you know,  
5 footprints depicted on a coverage map that in  
6 real-world applications the 2100 megahertz service  
7 does a good job of augmenting the total capacity  
8 on the site to make sure that that 700 megahertz  
9 service does not prematurely enter an exhaust  
10 state. And so that's really why we're looking to,  
11 from the get-go, deploy both services for our  
12 customers.

13 MR. EDELSON: And again, the difference  
14 between A, B, and C is probably more about the  
15 topography than about the site itself, if you  
16 well. Just in terms of where it is, back in  
17 there, the trees and the leaves and that's just  
18 the way the modeling goes.

19 But if I'm hearing you correctly, if we  
20 could do the experiment where we could put all  
21 three of them, all three sites and do it in the  
22 real world we might not see much difference  
23 between A, B, and C. That what we're seeing on  
24 the map is more of a modeling phenomenon than a  
25 real-world phenomenon?

1           THE WITNESS (Latorre): Right. So  
2           again, I think, you know, what we've presented  
3           here today is that all three, you know, will go a  
4           long way to meeting Verizon's coverage and  
5           capacity objectives.

6           You know, we feel confident in our maps.  
7           They're finely tuned engineering models. And as  
8           you all know, they take into account along with  
9           topography, our antenna heights, our site  
10          location, our gains, all those engineering factors  
11          to make them as accurate as possible.

12          You know, I think we're representing all  
13          three to the Council because we anticipate all  
14          three of them will generally provide coverage and  
15          capacity improvements to the areas including  
16          Woodstock, Eastford and Pomfret.

17          And to your point, you know, we don't  
18          have the benefit of building three towers at once  
19          and seeing which one is best. That would be an  
20          expensive experiment, but you know, I do feel that  
21          all three will achieve Verizon's RF goals.

22          MR. EDELSON: That's all the questions I  
23          have, Mr. Chairman.

24          THE CHAIRMAN: Just somewhat for  
25          clarification, we've been getting recently

1 requests for towers more having to do with  
2 capacity than coverage. And I know each one has  
3 both, but it seems in this case coverage is sort  
4 of the driving one. And I don't know if that  
5 makes any difference, but -- and of course it will  
6 also, as you just explained, improve the capacity  
7 for the future.

8 But coverage seems to be the driver in  
9 this case?

10 THE WITNESS (Latorre): That's accurate,  
11 yes.

12 THE CHAIRMAN: And I guess my last  
13 question -- and I don't really know that it's a  
14 whole lot of use since it's our job to make a  
15 determination. We're going to change our  
16 regulations for any time you come up with at least  
17 anything more than two alternatives. We're going  
18 to start charging extra.

19 More work for us -- but anyway. I  
20 noticed on page 26 your estimated cost schedule.  
21 I'm not asking you on the details -- but it fairly  
22 would be clear just looking at it, is that site  
23 three is substantially more expensive because of  
24 the side -- primarily, I assume, it's the access.

25 Sites A and B are within 10 -- roughly

1 within 10 percent of cost. And site C, as I said,  
2 it's not necessarily a determining factor for our  
3 deliberations, but it does give us a sense of the  
4 amount of extra site work particularly for your  
5 access drive that's going to be necessary and I  
6 guess -- oh, just one question. The fact that  
7 it's on site C it's only 130 versus a 150-foot  
8 tower. That doesn't change the cost --

9 THE WITNESS (Candiello): Yeah.

10 Mr. Stein, to answer your question -- or to, you  
11 know, to go along with your statement there, site  
12 C is -- is dramatically more expensive mostly due  
13 to the access road and the -- the additional  
14 utilities needed to feed the site at that  
15 location, and the wetland crossing that was  
16 described earlier. The French mattress is not  
17 something that's required on sites A or B.

18 So from -- from my standpoint, from a  
19 constructibility standpoint site A requires the  
20 least, you know, development, the shortest access  
21 road. Site B would be -- would be a close second.  
22 And C is, again dramatically more -- more work  
23 required there to develop that project.

24 THE CHAIRMAN: Thank you.

25 Mr. Mercier?



1           MR. MERCIER: Thank you. I've just got  
2 a question or two.

3           Mr. Libertine, regarding your visibility  
4 maps that you generated for the interrogatory  
5 responses, do you have the information as to what  
6 tree height was used in your model?

7           THE WITNESS (Libertine): These are all  
8 based on lidar data. And so the lidar actually  
9 picks up not only topography, but the tree canopy.  
10 So each individual tree or trees within an  
11 individual pixel are actually measured. So unlike  
12 the old days where we used to assume a height of  
13 60 or 65 feet across the whole study area, we're  
14 able to now generate essentially a model that  
15 mimics what is out in the real world. So it's  
16 variable to what's out there.

17          MR. MERCIER: Thank you. The other  
18 question I had had to do with site B. I did see  
19 an area of grading at the, I believe it was to the  
20 east because I believe it was on a slope.

21           Are you bringing in fill to create that  
22 level surface? Or is this going to be more  
23 pushing of dirt around and stabilizing?

24          THE WITNESS (Candiello): That's more of  
25 a stabilization. I think it was about a four to

1 five-foot difference from one corner of the  
2 compound out to the other. And the regrading, I  
3 don't think there's any -- there would be any need  
4 to bring in fill for that.

5 It's a small area of regrading for all  
6 the three locations. There is a little bit at  
7 that location, but we're talking minimal fill if  
8 it even needs to be brought in.

9 MR. MERCIER: Thank you. I have no  
10 other questions.

11 THE CHAIRMAN: Thank you.

12 We'll recess until 6:30, at which time  
13 we'll begin the public hearing.

14  
15 (Whereupon, the above proceedings were  
16 concluded at 4:29 p.m.)

17  
18  
19  
20  
21  
22  
23  
24  
25

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
CERTIFICATE

I hereby certify that the foregoing 73 pages are a complete and accurate computer-aided transcription of my original verbatim notes taken of the Regular Hearing in Re: Docket No. 484, APPLICATION FROM CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF A TELECOMMUNICATIONS FACILITY AT ONE OF THREE LOCATIONS AT 72 RAGGED HILL ROAD, POMFRET, CONNECTICUT, which was held before ROBIN STEIN, Chairman, at the Abington Congregational Church, Fellowship Hall, 542 Hampton Road, Pomfret, Connecticut, September 18, 2018.



---

Robert G. Dixon, CVR-M 857  
Notary Public  
BCT Reporting, LLC  
55 Whiting Street, Suite 1A  
Plainville, CT 06062  
My Commission Expires: 6/30/2020

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

I N D E X

WITNESSES

Andrew Candiello Page 8  
Juan (Jay) Latorre  
David Weinpahl  
Michael Libertine  
Dean Gustafson

EXAMINERS:

Mr. Baldwin Page 9  
Mr. Mercier Page 11

A				
	<b>addition (1)</b> 29:15	<b>21:20,20;22:18; 47:3</b>	<b>4:17,24;5:4;8:12, 19;21:2;60:24</b>	<b>attachment (5)</b> 33:18;34:25;42:7,8; 63:20
	<b>additional (6)</b> 9:13;24:5;25:18; 31:20;44:22;71:13	<b>allow (2)</b> 29:20;38:10	<b>applications (1)</b> 68:6	<b>attention (1)</b> 6:10
<b>ability (1)</b> 25:22	<b>adequate (3)</b> 28:25;30:13;44:7	<b>allowed (1)</b> 5:21	<b>applies (1)</b> 24:12	<b>Attorney (2)</b> 4:11;5:6
<b>able (12)</b> 11:14;12:6;13:2; 27:2;37:12,13;39:17; 46:23;62:7,15;65:2; 72:14	<b>adequately (1)</b> 26:8	<b>All-Points (2)</b> 7:14,17	<b>appropriate (1)</b> 18:24	<b>augmenting (1)</b> 68:7
<b>above (6)</b> 35:13,17,21;46:8, 19;73:15	<b>adjacent (3)</b> 14:22;17:25;67:24	<b>almost (4)</b> 48:22;54:7;64:5; 66:21	<b>approval (1)</b> 66:7	<b>Authority (5)</b> 21:7,13;22:3,14,24
<b>absolutely (1)</b> 40:18	<b>Administrative (2)</b> 4:16;40:10	<b>aloft (1)</b> 11:23	<b>approve (1)</b> 61:13	<b>available (2)</b> 5:9,10
<b>access (22)</b> 12:10;13:13;15:3, 19;16:9,24;17:21; 26:14;27:10;50:24; 51:13,24;58:10,15,22; 59:7,21,23;70:24; 71:5,13,20	<b>administratively (1)</b> 6:18	<b>along (19)</b> 14:3,4,10,20,23,23; 15:2,4;23:16;29:5; 30:8;32:13;36:22; 37:15;57:8;59:20; 67:11;69:8;71:11	<b>approved (6)</b> 22:10,12;41:12; 43:22,25,25	<b>avoid (1)</b> 20:16
<b>accordance (2)</b> 5:8;49:15	<b>admitted (1)</b> 11:3	<b>alter (1)</b> 18:12	<b>approximate (3)</b> 31:17;56:21,24	<b>aware (4)</b> 21:5;22:8;23:11; 40:13
<b>according (2)</b> 30:23;36:19	<b>adopt (1)</b> 10:12	<b>alternate (3)</b> 39:3,9;58:15	<b>approximately (3)</b> 4:4;12:17;57:17	<b>away (4)</b> 27:5;34:7,12,13
<b>Accordingly (1)</b> 6:17	<b>advantage (2)</b> 27:2;28:7	<b>alternatives (2)</b> 60:25;70:17	<b>aquifer (1)</b> 42:9	<b>B</b>
<b>account (2)</b> 45:11;69:8	<b>advantages (1)</b> 32:22	<b>although (6)</b> 23:1;31:24;34:19; 49:7,20;59:6	<b>arbitrarily (1)</b> 46:7	<b>Bachman (1)</b> 4:12
<b>accurate (3)</b> 10:1;69:11;70:10	<b>aesthetic (1)</b> 41:9	<b>always (2)</b> 39:1;66:25	<b>area (42)</b> 13:11;14:15;15:24; 16:16,20;17:14,23,23; 18:14,23,24;20:14,16; 26:5,13;29:12,19,22, 25;30:1,17;32:9;33:2, 8;34:20,23;37:3;41:2, 25;42:10;44:6,15; 45:9;51:4;55:24; 56:13;61:9;65:18; 66:4;72:13,19;73:5	<b>back (12)</b> 5:10;8:19;13:4; 23:4,23;34:14;36:17; 39:20;43:6;55:4;58:2; 68:16
<b>achieve (1)</b> 69:21	<b>affirmative (1)</b> 23:22	<b>amendments (1)</b> 9:14	<b>areas (19)</b> 13:19;15:15;20:18; 30:21;31:6,13,20; 32:2;33:23;34:2; 35:22;36:1;40:24,24; 42:2,10;46:10;47:22; 69:15	<b>bad (1)</b> 48:22
<b>acquisition (1)</b> 44:22	<b>afternoon (2)</b> 4:1;6:24	<b>amount (3)</b> 26:25;37:5;71:4	<b>arguably (1)</b> 62:6	<b>balance (1)</b> 39:2
<b>across (4)</b> 16:9,20,24;72:13	<b>afternoon's (1)</b> 5:13	<b>analysis (7)</b> 21:9,10;22:19; 33:13;38:12;48:9; 61:24	<b>argument's (1)</b> 65:21	<b>Baldwin (27)</b> 5:7;6:15,22,24; 8:10;9:4,6,8,10,12,17, 19,21,23,25;10:4,6,8, 10,12,16,18,20,22,24; 60:14,23
<b>Act (3)</b> 4:17;41:13,23	<b>agency (1)</b> 23:4	<b>analyst (1)</b> 4:13	<b>around (3)</b> 33:14;35:18;72:23	<b>ballon (1)</b> 46:15
<b>activation (1)</b> 30:3	<b>agenda (1)</b> 5:9	<b>anchoring (1)</b> 20:2	<b>assessment (3)</b> 29:2;32:5;53:23	<b>balloon (11)</b> 11:8,17,20,22,22; 12:6;37:13;45:19,25; 46:17,18
<b>active (2)</b> 55:15,18	<b>aggregation (8)</b> 25:10,15;26:6,18, 20,22;27:8,15	<b>anchors (1)</b> 20:1	<b>assignment (1)</b> 43:11	<b>balloons (12)</b> 11:11,15,21,23; 35:12,14,15,17,20,23; 45:18;47:2
<b>activities (2)</b> 16:2,15	<b>ago (1)</b> 39:19	<b>Andrew (1)</b> 7:5	<b>assist (1)</b> 8:25	<b>band (1)</b> 28:1
<b>activity (3)</b> 49:7,9;56:23	<b>agree (1)</b> 67:7	<b>antenna (1)</b> 69:9	<b>associated (9)</b> 8:13;15:25;26:3; 28:14;38:23;41:9; 49:19;58:21;59:23	<b>bandwidth (3)</b> 25:18,20;27:20
<b>actual (1)</b> 16:3	<b>ahead (2)</b> 48:25;67:18	<b>antennas (2)</b> 38:7;66:23	<b>assume (2)</b> 70:24;72:12	<b>bandwidths (1)</b> 26:3
<b>actually (18)</b> 13:8;18:22;20:13; 23:20;24:15;28:19, 24;35:12,14;52:20; 53:16;54:11;56:9,18; 59:13;62:17;72:8,11	<b>Air (1)</b> 7:11	<b>anticipate (2)</b> 20:6;69:13	<b>assuming (1)</b> 50:20	<b>base (12)</b> 13:9,10;14:8,23; 16:25;17:5,7,15;43:7; 54:19,21;64:20
<b>add (3)</b> 13:25;16:18;52:11	<b>Airport (9)</b> 21:7,13;22:3,13,24; 23:1,9,18;24:3	<b>apologies (1)</b> 47:8	<b>attached (1)</b> 25:3	<b>based (7)</b> 21:22;35:9;44:4; 52:24;58:7;61:14;
<b>added (1)</b> 50:19	<b>airports (5)</b> 22:15,22;23:5,21; 47:4	<b>apologize (3)</b> 46:4;47:6;53:17		
<b>adding (5)</b> 13:7,22;50:21;51:1; 52:4	<b>airspace (4)</b>	<b>appear (1)</b> 29:10		
		<b>appeared (1)</b> 19:9		
		<b>applicant (4)</b> 5:19;6:13,20,25		
		<b>application (7)</b>		

72:8 <b>basically (4)</b> 21:10,11;28:10; 31:3 <b>Bear (1)</b> 42:17 <b>beautiful (1)</b> 40:22 <b>becomes (1)</b> 27:6 <b>bedrock (2)</b> 19:4,25 <b>begin (3)</b> 11:3,6;73:13 <b>begins (1)</b> 64:23 <b>behalf (1)</b> 6:25 <b>behind (7)</b> 33:14;34:25;42:21; 54:24;57:7;63:20,23 <b>below (1)</b> 53:20 <b>benefit (3)</b> 5:23;38:6;69:18 <b>benefits (2)</b> 25:20;48:16 <b>besides (1)</b> 15:9 <b>best (10)</b> 10:2;12:1;28:18; 38:17;53:1,10,10; 60:18;61:16;69:19 <b>better (1)</b> 54:12 <b>beyond (1)</b> 34:23 <b>bit (16)</b> 14:25;20:18;30:16; 31:5;35:7;39:20;40:7; 50:21;51:1;52:4,8; 57:25;60:9;64:1,21; 73:6 <b>black (1)</b> 62:10 <b>blast (2)</b> 19:5,21 <b>blasting (1)</b> 19:14 <b>blend (1)</b> 39:24 <b>blind (3)</b> 38:13,15,25 <b>block (1)</b> 65:2 <b>blocking (1)</b> 29:11 <b>blue (3)</b> 11:19;56:12,15 <b>bordering (1)</b> 33:22 <b>borings (1)</b> 19:19	<b>both (15)</b> 18:4;23:8,11,19,22; 26:14,24;27:3;30:4; 40:20;48:5;49:3; 55:20;68:11;70:3 <b>bother (1)</b> 66:22 <b>boundaries (1)</b> 42:11 <b>boundary (4)</b> 56:21,22;64:3,5 <b>boxing (1)</b> 18:23 <b>break (1)</b> 34:21 <b>breeding (6)</b> 55:15,18,24;56:2,6, 10 <b>brief (2)</b> 5:17;37:11 <b>bring (1)</b> 73:4 <b>bringing (1)</b> 72:21 <b>broad (1)</b> 59:3 <b>broadcast (1)</b> 44:18 <b>Brook (3)</b> 53:4,18;54:1 <b>brought (3)</b> 15:21;31:23;73:8 <b>brown (1)</b> 40:6 <b>Buell (1)</b> 23:6 <b>buffer (2)</b> 65:2,20 <b>build (1)</b> 20:9 <b>building (4)</b> 13:23;14:8;45:2; 69:18 <b>built (4)</b> 37:7;38:5;40:16; 67:21 <b>bulk (1)</b> 8:13 <b>bunch (1)</b> 38:17 <b>burial (1)</b> 15:17 <b>business (1)</b> 7:1 <b>businesses (1)</b> 30:9 <b>busy (1)</b> 33:4	<b>C2 (1)</b> 50:23 <b>C3 (3)</b> 50:23;51:7,8 <b>C4 (1)</b> 50:23 <b>C5 (2)</b> 42:21;54:13 <b>CAA (1)</b> 23:12 <b>call (5)</b> 4:2;6:10;13:8; 35:12;64:12 <b>called (2)</b> 8:6;17:3 <b>calm (1)</b> 12:4 <b>came (3)</b> 39:5;43:6;61:18 <b>camouflaging (1)</b> 38:6 <b>can (21)</b> 15:13;25:16;26:8, 14;27:1;32:2;34:14, 24;44:19;51:2;53:1, 13;56:3;57:12;59:1; 63:12;64:9,16;66:25; 67:18,23 <b>Candiello (18)</b> 7:5,5,7;9:6,7,19,20; 10:6,7,18,19;21:4,19; 22:17;23:2;61:5;71:9; 72:24 <b>canopy (1)</b> 72:9 <b>capable (1)</b> 30:6 <b>capacity (6)</b> 44:7;68:7;69:5,15; 70:2,6 <b>carefully (1)</b> 20:11 <b>carrier (8)</b> 25:9,15;26:6,18,20, 22;27:8,15 <b>carriers (1)</b> 67:11 <b>case (9)</b> 24:12;26:9;28:6; 32:5;40:17;46:18; 47:23;70:3,9 <b>cases (2)</b> 26:1;67:15 <b>categories (1)</b> 41:24 <b>category (1)</b> 62:15 <b>caught (2)</b> 24:15;52:13 <b>cell (3)</b> 7:9;26:24;58:3 <b>Cellco (3)</b> 4:17;5:5;7:1	<b>Cellco's (1)</b> 24:19 <b>center (3)</b> 7:9;26:10;29:8 <b>centerline (1)</b> 44:3 <b>certain (1)</b> 22:21 <b>Certainly (19)</b> 37:4,19;38:2,8,17, 21;39:18;41:6,9,23; 42:1;48:3,9;50:1,3; 62:21;65:25;66:10; 68:1 <b>certificate (1)</b> 4:19 <b>Chair (1)</b> 7:20 <b>CHAIRMAN (24)</b> 4:1,5,7;6:16,17,22; 7:21;8:10;10:25;11:2; 17:17;43:15,17; 48:24;50:9,10,11; 54:16;60:7;69:23,24; 70:12;71:24;73:11 <b>challenging (2)</b> 29:12;30:1 <b>change (5)</b> 47:19;56:3;65:23; 70:15;71:8 <b>changes (3)</b> 66:8,9,11 <b>channels (2)</b> 27:11;28:6 <b>character (1)</b> 47:18 <b>characteristics (3)</b> 29:17;59:7;66:11 <b>charging (1)</b> 70:18 <b>chipping (2)</b> 19:22,23 <b>choice (1)</b> 48:17 <b>choose (1)</b> 60:17 <b>circled (1)</b> 52:17 <b>citizen (1)</b> 5:11 <b>clarification (4)</b> 50:14;53:9;55:7; 69:25 <b>clarify (4)</b> 24:16;30:19;51:2; 56:12 <b>clarity (1)</b> 24:19 <b>classified (1)</b> 55:25 <b>clear (2)</b> 17:17;70:22 <b>cleared (1)</b>	66:1 <b>clearer (1)</b> 52:8 <b>clearing (2)</b> 14:6;66:8 <b>clearly (1)</b> 47:9 <b>clerk's (1)</b> 6:5 <b>clips (1)</b> 58:1 <b>close (6)</b> 18:20;38:18;40:14; 47:4;59:13;71:21 <b>closely (1)</b> 20:20 <b>closer (3)</b> 23:20;36:4;40:4 <b>closest (2)</b> 62:20,20 <b>cobble (1)</b> 19:22 <b>cobbles (1)</b> 19:4 <b>Cole (2)</b> 5:7;6:25 <b>colored (2)</b> 11:17;35:15 <b>column (1)</b> 56:19 <b>combination (2)</b> 34:5,21 <b>coming (2)</b> 12:18;54:23 <b>comment (4)</b> 5:15,16,21;50:16 <b>comments (6)</b> 6:19;16:18;21:8,9; 22:24;61:2 <b>communication (1)</b> 5:2 <b>comparative (1)</b> 48:9 <b>comparatively (2)</b> 49:5,23 <b>compare (3)</b> 32:7,8;49:5 <b>compared (2)</b> 31:18;33:5 <b>compatibility (1)</b> 4:19 <b>completed (1)</b> 49:15 <b>component (1)</b> 41:16 <b>compound (8)</b> 12:24;14:13;19:7; 20:6,9;37:1,8;73:2 <b>concerns (1)</b> 23:25 <b>concluded (1)</b> 73:16 <b>conclusion (1)</b>
	<b>C</b>			
	<b>C0 (4)</b> 42:22;57:7,7;63:24			

11:12 <b>concrete (1)</b> 15:14 <b>condition (1)</b> 13:17 <b>Conditions (2)</b> 11:25;12:12 <b>conducts (1)</b> 29:16 <b>conduit (1)</b> 15:17 <b>conference (1)</b> 7:9 <b>confidence (2)</b> 44:9;46:21 <b>confident (2)</b> 29:19;69:6 <b>confirm (1)</b> 25:1 <b>congressional (1)</b> 40:12 <b>Connecticut (10)</b> 4:2,15,23;21:7,13; 22:2,13,24;29:9; 32:10 <b>consider (4)</b> 38:3;39:12;41:1; 60:12 <b>considerably (1)</b> 59:12 <b>considerations (1)</b> 48:19 <b>considered (3)</b> 16:4;48:14,15 <b>considering (1)</b> 40:3 <b>considers (1)</b> 51:13 <b>consistent (2)</b> 13:4;61:15 <b>consists (1)</b> 7:4 <b>construct (1)</b> 48:7 <b>constructibility (2)</b> 39:1;71:19 <b>construction (12)</b> 4:20;14:13;16:2,14; 18:3,9,18;19:1;49:6,9, 15:50:3 <b>consultation (1)</b> 61:3 <b>contacted (2)</b> 21:2;22:15 <b>contain (1)</b> 55:3 <b>contained (2)</b> 10:1,13 <b>continue (3)</b> 43:23;44:18;51:23 <b>continuous (1)</b> 51:23 <b>contractor (1)</b>	18:7 <b>control (1)</b> 66:3 <b>controls (1)</b> 18:25 <b>convenience (1)</b> 6:7 <b>conveyance (1)</b> 17:11 <b>copies (2)</b> 5:9,11 <b>corner (6)</b> 36:22,24,25;37:3; 58:2;73:1 <b>Corporation (2)</b> 7:15,18 <b>corrections (2)</b> 8:18;9:13 <b>correctly (4)</b> 23:2;57:23;66:18; 68:19 <b>Corridor (7)</b> 40:11,13,20;41:10, 20,25;59:3 <b>Corridors (1)</b> 41:17 <b>cost (3)</b> 70:20;71:1,8 <b>Council (20)</b> 4:3,5,6,24;5:2,3,12, 25;6:14,18;32:20; 33:16;43:16;52:19; 57:5;60:14,25;61:11; 67:21;69:13 <b>Council's (4)</b> 5:11;8:14;12:8; 38:3 <b>couple (9)</b> 17:6;22:4;23:16; 33:12,19,22;55:13; 58:21;59:22 <b>course (5)</b> 17:4,9;50:7;61:13; 70:5 <b>cover (3)</b> 31:21;34:6;35:8 <b>coverage (21)</b> 28:25;29:3;30:16; 31:22;52:22,24;53:1, 5,10,10;54:12;63:2; 66:14,16,19;68:5; 69:4,14;70:2,3,8 <b>covered (2)</b> 36:2;54:4 <b>covers (3)</b> 28:18,19;47:11 <b>create (1)</b> 72:21 <b>criteria (3)</b> 61:14,15,17 <b>cross-examination (1)</b> 11:4 <b>crossing (10)</b>	15:3,6;16:16;17:8; 18:19;52:16;59:8,9, 10;71:15 <b>crossings (1)</b> 15:15 <b>cross-reference (1)</b> 63:23 <b>cross-referenced (1)</b> 42:20 <b>cultural (2)</b> 40:14,15 <b>cultural/historic (1)</b> 40:21 <b>curb (1)</b> 14:7 <b>curious (2)</b> 43:8;45:17 <b>current (3)</b> 12:16;13:17;14:15 <b>currently (1)</b> 31:8 <b>customer (6)</b> 25:18;26:7,13,23; 27:5,9 <b>customers (3)</b> 45:1;66:20;68:12 <b>customer's (1)</b> 27:19 <b>cut (2)</b> 16:9;42:20 <b>cuts (3)</b> 16:20;17:7;20:8 <b>cutting (2)</b> 42:25;59:21	<b>deals (2)</b> 41:17;45:7 <b>Dean (1)</b> 7:16 <b>decommission (1)</b> 27:9 <b>deems (1)</b> 30:25 <b>deeper (2)</b> 39:9;65:1 <b>definition (1)</b> 28:5 <b>degraded (1)</b> 33:5 <b>deliberations (1)</b> 71:3 <b>deliver (1)</b> 30:13 <b>demand (2)</b> 67:12,18 <b>demands (1)</b> 27:18 <b>demonstrate (1)</b> 36:13 <b>demonstrated (1)</b> 36:3 <b>dense (2)</b> 34:5;46:11 <b>Department (1)</b> 4:8 <b>depending (2)</b> 26:4;67:23 <b>depicted (1)</b> 68:5 <b>deploy (1)</b> 68:11 <b>deployed (2)</b> 25:16;26:6 <b>deploying (1)</b> 27:17 <b>deployment (1)</b> 26:11 <b>deploys (1)</b> 25:24 <b>deposited (1)</b> 6:5 <b>describe (2)</b> 11:10;16:11 <b>described (1)</b> 71:16 <b>design (1)</b> 24:20 <b>designated (2)</b> 40:13;43:2 <b>designation (2)</b> 41:24;42:3 <b>designed (1)</b> 26:18 <b>designee (1)</b> 4:7 <b>desirable (1)</b> 32:23 <b>details (1)</b>	70:21 <b>detection (1)</b> 42:9 <b>determination (1)</b> 70:15 <b>determine (1)</b> 28:23 <b>determined (1)</b> 22:7 <b>determining (1)</b> 71:2 <b>develop (1)</b> 71:23 <b>development (3)</b> 20:15;64:17;71:20 <b>device (1)</b> 27:4 <b>diameter (1)</b> 11:20 <b>difference (10)</b> 47:16;48:12,21; 49:2;53:7;58:5;68:13, 22;70:5;73:1 <b>differences (2)</b> 33:1;53:5 <b>different (12)</b> 11:16;25:25;29:17; 30:14;31:6;35:15; 50:17;52:5;55:13; 58:15;60:11;61:20 <b>difficult (1)</b> 46:14 <b>difficulty (1)</b> 20:7 <b>digits (1)</b> 12:4 <b>diligence (1)</b> 29:15 <b>direct (3)</b> 15:17;59:12;61:1 <b>direction (1)</b> 52:23 <b>directly (1)</b> 59:23 <b>Director (3)</b> 4:12;7:14;8:7 <b>dirt (4)</b> 12:18;13:18;51:20; 72:23 <b>discretion (1)</b> 38:3 <b>distance (3)</b> 22:21;39:7;49:3 <b>distances (1)</b> 34:16 <b>distant (2)</b> 38:21;56:23 <b>disturbance (1)</b> 20:21 <b>docket (1)</b> 58:25 <b>document (1)</b> 24:10
		<b>D</b>		
		<b>d/b/a (2)</b> 4:18;5:6 <b>dab (1)</b> 40:19 <b>damage (1)</b> 49:11 <b>damaging (1)</b> 48:1 <b>dashed (3)</b> 56:12,15,20 <b>data (4)</b> 25:19,21;27:1;72:8 <b>database (1)</b> 21:14 <b>date (1)</b> 6:1 <b>Dave (2)</b> 7:10;16:18 <b>day (4)</b> 12:5;34:8;67:14,16 <b>days (2)</b> 6:1;72:12 <b>dBm (3)</b> 24:21,22,23 <b>dealing (1)</b> 8:18		

<b>documented (1)</b> 34:13	34:10;35:8	13:5;24:19;51:16; 52:5	55:17	29:4,10,20;30:2,5,22; 32:19;44:3;67:14,24
<b>documents (2)</b> 6:19;23:16	<b>Edelson (15)</b> 4:9;60:7,8,24; 61:18;62:9;63:1,4,12, 16;65:12;66:6,12; 68:13;69:22	<b>entities (1)</b> 20:25	<b>excuse (6)</b> 24:10;28:24;31:21; 37:21;42:8;63:21	<b>facility (12)</b> 4:21;21:3;23:21; 30:3,5,10;35:16; 36:10;50:7;53:24; 67:21,25
<b>done (7)</b> 28:23;34:25;39:24; 40:7;45:9;46:8;63:25	<b>edge (5)</b> 14:24;15:2,17; 18:19,21	<b>entrance (1)</b> 14:21	<b>Executive (2)</b> 4:12;8:7	<b>facility's (1)</b> 26:10
<b>dot (1)</b> 62:10	<b>edification (1)</b> 66:13	<b>environment (1)</b> 48:2	<b>exhaust (1)</b> 68:9	<b>fact (7)</b> 22:19;34:18;40:22; 60:11;67:13,17;71:6
<b>dots (1)</b> 42:12	<b>effects (1)</b> 41:10	<b>Environmental (7)</b> 4:8,19;18:8;41:13, 23;48:18;58:22	<b>Exhibit (1)</b> 63:21	<b>factor (2)</b> 45:16;71:2
<b>double (1)</b> 12:4	<b>either (10)</b> 6:9;14:5;15:2,13; 17:14;18:6,12;33:23; 48:4;55:19	<b>equal (1)</b> 61:9	<b>existing (21)</b> 6:19;12:11,23; 13:10,21,21;14:4,5; 16:19;17:7;20:7; 30:16;31:15;50:24; 51:9,13,17,20;52:1, 15;58:18	<b>factors (1)</b> 69:10
<b>down (4)</b> 12:11;18:22;46:4; 60:15	<b>elaborate (1)</b> 21:18	<b>erosion (1)</b> 18:24	<b>expand (1)</b> 31:2	<b>factory (1)</b> 37:23
<b>download (3)</b> 25:22;27:13,20	<b>elevation (12)</b> 29:23;31:4,17,18, 24;34:14;51:10; 54:20,22;57:13;58:3, 5	<b>errata (1)</b> 8:17	<b>expect (3)</b> 19:14;44:20;67:1	<b>fairly (9)</b> 12:3,3;13:4;20:19; 36:17;46:11;50:5; 59:13;70:21
<b>drains (1)</b> 59:3	<b>eleven (2)</b> 24:7,17	<b>especially (1)</b> 46:10	<b>expectations (1)</b> 27:20	<b>fall (1)</b> 62:14
<b>dramatic (1)</b> 32:16	<b>eliminate (1)</b> 15:14	<b>essence (1)</b> 51:15	<b>expensive (3)</b> 69:20;70:23;71:12	<b>falls (2)</b> 63:9;64:5
<b>dramatically (3)</b> 33:8;71:12,22	<b>else (2)</b> 20:2;60:20	<b>essentially (6)</b> 16:7;17:4;59:3; 63:19;64:7;72:14	<b>experience (2)</b> 27:13;68:3	<b>far (3)</b> 35:24;39:6;62:24
<b>drive (2)</b> 29:16;71:5	<b>emergency (1)</b> 20:25	<b>estimated (1)</b> 70:20	<b>experienced (1)</b> 22:2	<b>Farm (1)</b> 23:7
<b>driver (1)</b> 70:8	<b>employ (1)</b> 20:1	<b>evaluate (2)</b> 29:18;39:8	<b>experiment (2)</b> 68:20;69:20	<b>farther (2)</b> 31:5,12
<b>driveway (1)</b> 51:11	<b>encase (1)</b> 15:14	<b>even (14)</b> 19:15;28:18;30:14; 35:20,22;39:19;62:6, 14,22;65:3;66:21; 67:10;68:4;73:8	<b>explain (1)</b> 12:12	<b>fashion (1)</b> 61:10
<b>driving (1)</b> 70:4	<b>encountered (3)</b> 13:3;15:12;19:25	<b>event (1)</b> 20:14	<b>explained (2)</b> 23:2;70:6	<b>faster (1)</b> 25:23
<b>drove (3)</b> 33:14;35:18;64:15	<b>encumber (1)</b> 59:21	<b>Eversource (1)</b> 15:21	<b>extend (4)</b> 34:22;41:6;62:3; 64:19	<b>federal (2)</b> 23:3,5
<b>due (4)</b> 27:7;29:14;31:24; 71:12	<b>end (2)</b> 5:13;27:12	<b>everyone (2)</b> 6:24;64:2	<b>extending (1)</b> 47:22	<b>feed (1)</b> 71:14
<b>duly (1)</b> 8:6	<b>Energy (1)</b> 4:8	<b>evidence (2)</b> 55:18,24	<b>extends (2)</b> 37:18;64:24	<b>feel (4)</b> 29:19;54:12;69:6, 20
<b>dumb (2)</b> 54:13;60:21	<b>engage (1)</b> 30:3	<b>evidentiary (1)</b> 5:14	<b>extension (1)</b> 44:11	<b>feet (24)</b> 12:17;16:21;17:7; 31:18;35:13,17,21; 43:20,20;44:4,4; 45:17,19;46:1,2,19, 25;47:1,3;52:1,54;22; 57:17;62:25;72:13
<b>during (8)</b> 14:2;16:23,23;19:1, 2;35:10;39:16;55:14	<b>engineer (3)</b> 7:6,8,11	<b>event (1)</b> 20:14	<b>extent (3)</b> 30:6;35:23;52:2	<b>felt (1)</b> 39:5
<b>E</b>	<b>Engineering (3)</b> 7:11;69:7,10	<b>Eversource (1)</b> 15:21	<b>extra (2)</b> 70:18;71:4	<b>few (1)</b> 43:18
<b>earlier (4)</b> 50:14;58:2;59:2; 71:16	<b>engineers (1)</b> 7:12	<b>everyone (2)</b> 6:24;64:2	<b>extremely (1)</b> 24:5	<b>field (6)</b> 11:6,13;16:3;35:10; 56:20,24
<b>easement (1)</b> 15:18	<b>enhancements (1)</b> 29:24	<b>evidence (2)</b> 55:18,24	<b>F</b>	<b>fields (1)</b> 33:22
<b>easements (1)</b> 15:20	<b>enough (5)</b> 26:16,17;34:20; 39:6;46:21	<b>evidentiary (1)</b> 5:14	<b>FAA (8)</b> 21:9,10,16,22; 22:13,16,20;23:3	<b>Fifty (1)</b> 46:1
<b>easier (2)</b> 39:18;64:2	<b>ensure (4)</b> 18:10,25;30:5; 44:17	<b>exact (3)</b> 27:3,11;51:4	<b>fabric (1)</b> 17:5	<b>figure (2)</b> 34:1;42:14
<b>east (4)</b> 20:16;28:24;65:7; 72:20	<b>enter (1)</b> 68:9	<b>exactly (1)</b> 56:15	<b>facilities (13)</b> 21:12;22:1;23:20;	
<b>Eastford (5)</b> 6:6;23:7;29:13; 32:10;69:16	<b>entire (4)</b>	<b>examined (1)</b> 8:7		
<b>eclipse (2)</b>		<b>example (3)</b> 32:6,15;44:12		
		<b>excavate (1)</b> 51:25		
		<b>excavating (1)</b> 17:6		
		<b>excavation (2)</b> 13:21;18:11		
		<b>exception (5)</b> 35:7;52:11;61:5; 62:2;64:11		
		<b>exceptions (1)</b>		



<b>file (3)</b> 8:13;21:22;22:20	<b>footprints (2)</b> 67:24;68:5	14:11;66:25;69:14	<b>guide (1)</b> 5:11	25:21,21;27:20,20; 29:23;31:4;44:24; 67:3
<b>filing (2)</b> 21:2;41:13	<b>foreseeable (1)</b> 45:13	<b>generate (1)</b> 72:14	<b>Gustafson (31)</b> 7:16;9:10,11,23,24; 10:10,11,22,23;16:6, 12,17;17:20;18:2,20; 19:15;43:10;44:13; 47:24;48:3,20;49:1, 14;52:10,14;55:1,12; 56:17;57:2;58:11; 60:2	<b>highly (2)</b> 48:10;62:14
<b>fill (4)</b> 20:8;72:21;73:4,7	<b>forest (1)</b> 46:12	<b>generated (1)</b> 72:4		<b>Highway (2)</b> 33:22;35:25
<b>final (3)</b> 22:6,9;42:6	<b>forward (1)</b> 60:18	<b>generation (1)</b> 49:20	<b>H</b>	<b>Hill (12)</b> 4:23;33:24;36:23; 42:24;57:8,14;58:10, 19;59:20,24;64:10,21
<b>find (4)</b> 43:5;55:18,24;56:9	<b>found (5)</b> 46:10;55:8,9;58:8; 68:4	<b>geo-textile (1)</b> 17:5		<b>himself (1)</b> 63:6
<b>finely (1)</b> 69:7	<b>foundation (3)</b> 19:6,16;20:1	<b>get-go (1)</b> 68:11		<b>holdings (1)</b> 26:4
<b>finish (3)</b> 37:23,24;39:13	<b>four (7)</b> 55:16,16,17,22; 56:13;57:22;72:25	<b>gets (1)</b> 18:20		<b>home (1)</b> 62:21
<b>finished (1)</b> 13:14	<b>four-foot (1)</b> 11:20	<b>GIS (1)</b> 54:17	<b>Hannon (23)</b> 4:7;50:10,11;51:5, 8,14;52:3,13,17; 53:14,19;54:10,19,23; 56:11;57:1,3,18,21; 58:1,7;59:25;60:5	<b>homework (1)</b> 43:11
<b>finishing (1)</b> 65:4	<b>freak (1)</b> 52:20	<b>given (1)</b> 6:2	<b>happens (1)</b> 35:25	<b>hopefully (1)</b> 4:9
<b>first (8)</b> 8:6;16:2;21:16; 25:11;41:22;50:13; 67:9,22	<b>French (7)</b> 17:3,15;18:1,11,14; 52:16;71:16	<b>giving (1)</b> 29:23	<b>hard (1)</b> 63:13	<b>hoping (1)</b> 52:19
<b>five (3)</b> 8:10;54:11;56:14	<b>frequencies (9)</b> 25:25;26:2,9,12,25; 27:3,6;28:2;67:16	<b>glare (2)</b> 39:14,16	<b>Harder (1)</b> 4:9	<b>host (1)</b> 63:9
<b>five-foot (1)</b> 73:1	<b>frequency (1)</b> 67:3	<b>goals (1)</b> 69:21	<b>harmful (1)</b> 48:1	<b>house (1)</b> 59:19
<b>five-oh (1)</b> 45:24	<b>friends (1)</b> 5:23	<b>goes (2)</b> 47:12;68:18	<b>heads (1)</b> 17:1	<b>hundred (3)</b> 44:8;66:4,5
<b>flag (1)</b> 56:22	<b>frog (1)</b> 55:19	<b>Good (6)</b> 4:1;6:24;36:13; 37:5;46:20;68:7	<b>heard (2)</b> 39:4;46:3	<b>hydraulic (1)</b> 17:13
<b>flew (2)</b> 35:11;45:18	<b>full (5)</b> 10:25;11:17;13:13; 23:17;36:10	<b>government (1)</b> 23:4	<b>hearing (13)</b> 4:2,14;6:3,5,11;7:4; 8:11,20,25;9:1;24:16; 68:19;73:13	<b>hydraulically (1)</b> 18:22
<b>flexibility (1)</b> 29:24	<b>fully (2)</b> 37:7;44:16	<b>grades (1)</b> 20:17	<b>heavy (3)</b> 12:2;13:10;20:8	<b>hydrology (2)</b> 17:24;18:12
<b>flip (1)</b> 65:4	<b>function (4)</b> 34:18;64:25;65:6, 17	<b>gradient (1)</b> 18:22	<b>height (11)</b> 22:9;35:15;43:24; 44:17;45:4,12,19; 46:20;47:2;72:6,12	<b>I</b>
<b>flipping (1)</b> 25:7	<b>further (8)</b> 20:16;27:17;29:7; 34:12;39:20;41:5; 57:25;65:7	<b>grading (1)</b> 72:19	<b>heights (5)</b> 11:18;21:23;35:13, 21;69:9	<b>idea (1)</b> 63:24
<b>floating (1)</b> 46:14	<b>future (10)</b> 16:16;20:14;43:21; 44:6,9,24;45:3,13; 59:18;70:7	<b>gravel (12)</b> 12:19;13:7,14; 15:18;17:4;50:21; 51:1,9,21,23,23;52:4	<b>held (1)</b> 4:14	<b>ideal (1)</b> 12:5
<b>flow (1)</b> 16:22		<b>gray (1)</b> 37:23	<b>help (1)</b> 60:16	<b>identification (1)</b> 8:21
<b>flows (2)</b> 16:23,24	<b>G</b>	<b>great (3)</b> 26:16;34:8;66:24	<b>helpful (3)</b> 24:5;38:11;63:23	<b>identified (1)</b> 56:20
<b>fly (1)</b> 11:8	<b>gain (1)</b> 34:14	<b>greater (1)</b> 27:25	<b>hereby (2)</b> 6:18;11:3	<b>identifies (1)</b> 57:7
<b>flying (1)</b> 11:11	<b>gains (1)</b> 69:10	<b>greatest (3)</b> 29:24;30:6;54:2	<b>hereof (1)</b> 6:1	<b>identify (1)</b> 63:13
<b>focused (1)</b> 39:19	<b>galvanized (2)</b> 37:23;39:13	<b>Green (2)</b> 40:10;63:5	<b>Heritage (5)</b> 40:11,19;41:10,17, 20	<b>immediate (6)</b> 7:4;34:20,23;44:5; 45:3,5
<b>follow (1)</b> 64:18	<b>gave (1)</b> 25:2	<b>ground (2)</b> 19:5;31:17	<b>hey (1)</b> 62:18	<b>impact (9)</b> 17:18,24;21:11,17; 40:15;48:4,8;49:25; 53:2
<b>followed (1)</b> 28:12	<b>General (4)</b> 4:15;13:17;20:24; 33:20	<b>grow (1)</b> 44:16	<b>high (3)</b> 16:23;46:1,21	<b>impacted (1)</b> 39:22
<b>following (1)</b> 8:24	<b>generally (3)</b>	<b>growth (1)</b> 67:12	<b>higher (8)</b>	<b>impacts (8)</b> 17:13;19:1;41:9; 49:17,19;50:4,5; 59:12
<b>follows (1)</b> 8:8		<b>guarantee (1)</b> 56:8		
<b>followup (1)</b> 22:13		<b>guess (11)</b> 11:7;21:12;33:20; 54:25;57:14;60:8,13; 61:22;64:12;70:12; 71:6		
<b>footprint (7)</b> 27:24;33:4,10; 64:24;67:2,8,25				

<b>implemented (1)</b> 26:22	20:12	<b>Jay (1)</b> 7:7	<b>leased (1)</b> 20:15	<b>lines (2)</b> 39:7;42:12
<b>imposing (1)</b> 47:19	<b>installation (5)</b> 13:13;15:8;18:1; 19:17;44:25	<b>job (2)</b> 68:7;70:14	<b>least (13)</b> 20:3;28:6;36:13; 45:12;48:1;55:16; 56:5;58:13;59:9,19; 63:24;70:16;71:20	<b>listed (7)</b> 7:3;8:11,20;9:1; 24:11;33:15;51:14
<b>impossible (1)</b> 62:17	<b>installed (1)</b> 14:19	<b>join (1)</b> 5:24	<b>leave (1)</b> 15:12	<b>little (20)</b> 14:25;20:18;21:14; 25:10;30:15;31:5; 35:7;39:20;40:7; 50:21;51:1;52:4,8; 57:25;60:9;63:16,17; 64:1,20;73:6
<b>improve (5)</b> 12:19;27:17;29:19; 32:3;70:6	<b>installing (1)</b> 14:7	<b>July (2)</b> 4:24;8:19	<b>leaves (7)</b> 36:8;37:6;62:6,22; 65:3;67:4;68:17	<b>LLC (1)</b> 7:12
<b>improved (3)</b> 30:21;53:24;54:4	<b>instances (2)</b> 23:19,22	<b>jump (1)</b> 60:22	<b>left (4)</b> 7:4,10;56:19;63:17	<b>load (1)</b> 15:3
<b>improvement (11)</b> 13:17;18:23;29:6; 30:7;32:14,17;51:19, 22;54:3,8,9	<b>intend (1)</b> 19:5	<b>justice (1)</b> 64:6	<b>legend (1)</b> 56:18	<b>locate (2)</b> 21:3;24:9
<b>improvements (3)</b> 17:2;29:22;69:15	<b>intended (1)</b> 51:19	<b>K</b>	<b>less (7)</b> 30:24;39:24;42:25; 46:16;58:20;59:17; 66:16	<b>located (5)</b> 4:21;16:7;18:14; 22:21;59:13
<b>improves (1)</b> 33:9	<b>intent (2)</b> 21:16;52:9	<b>keep (1)</b> 47:2	<b>letter (1)</b> 23:12	<b>location (16)</b> 14:11;20:20,24; 21:22;22:7,10;36:16; 38:4;42:21;48:6; 56:24;58:20;65:6; 69:10;71:15;73:7
<b>in-building (5)</b> 24:8,10,24;30:24; 31:21	<b>interactive (1)</b> 54:17	<b>Ken (1)</b> 6:24	<b>letting (1)</b> 22:4	<b>locations (23)</b> 4:22;11:18;12:20; 13:15;14:7,11,17; 15:22;20:6,9;22:5; 23:17;24:1;33:15; 34:12;35:19;37:11, 14;51:24;56:3;58:16; 61:13;73:6
<b>include (3)</b> 8:12;18:5;25:21	<b>interested (1)</b> 52:25	<b>kind (6)</b> 13:3;28:20;38:21; 45:7;56:1;63:13	<b>level (5)</b> 23:5;29:18;31:23; 46:21;72:22	<b>logged (1)</b> 65:18
<b>included (1)</b> 28:15	<b>intermediate (1)</b> 28:1	<b>knowledge (2)</b> 10:2;66:1	<b>Libertine (42)</b> 7:13;9:8,9,21,22; 10:8,9,20,21;11:10, 14;33:12;34:4;37:4; 38:1,39:15;40:17; 41:14,21;42:17; 44:13;45:16,21,23; 46:2,6;47:8,13;57:16, 19,24;58:6;62:1,12; 63:3,8,15,18;65:25; 66:10;72:3,7	<b>long (3)</b> 26:21,23;69:4
<b>includes (1)</b> 18:4	<b>interrogatories (8)</b> 8:15;28:16;33:18; 34:24;42:7;57:5,12; 63:21	<b>knows (1)</b> 42:15	<b>Libertine's (1)</b> 7:15	<b>long-term (1)</b> 49:13
<b>including (3)</b> 5:20;12:13;69:15	<b>interrogatory (6)</b> 24:6,17;25:7,12; 28:9;72:4	<b>L</b>	<b>liberty (1)</b> 23:15	<b>long-term (3)</b> 49:16,19;50:5
<b>increase (8)</b> 27:1,19;31:17; 44:17;45:4;47:14; 53:10;67:25	<b>intersection (1)</b> 64:10	<b>land (1)</b> 64:19	<b>license (1)</b> 26:4	<b>look (12)</b> 32:7,9;34:14;35:18; 37:12;38:12;42:1; 58:9;63:18;64:15; 67:22;68:2
<b>increased (2)</b> 25:20;43:20	<b>into (16)</b> 5:17;16:18;25:11; 34:14;39:6,9;43:1; 44:9;45:10;46:13; 57:20;62:14;64:20; 65:1,7;69:8	<b>landing (1)</b> 21:12	<b>lidar (2)</b> 72:8,8	<b>looked (6)</b> 19:3;20:19;39:3; 41:24;58:12;59:25
<b>increases (1)</b> 27:21	<b>interrogatory (8)</b> 8:15;28:16;33:18; 34:24;42:7;57:5,12; 63:21	<b>landlord's (1)</b> 63:10	<b>light (1)</b> 56:15	<b>looking (24)</b> 21:8;30:15;33:13, 21;35:2,3,4;36:9; 44:6;51:3,5;53:17; 55:4;57:6,10,11; 60:14;61:12,20;64:1; 66:15,18;68:10;70:22
<b>independent (1)</b> 41:18	<b>interrogatory (6)</b> 24:6,17;25:7,12; 28:9;72:4	<b>large (2)</b> 20:12;46:11	<b>lighting (1)</b> 22:18	<b>looks (3)</b> 29:16;36:23;42:25
<b>indicating (2)</b> 51:19;55:20	<b>intersection (1)</b> 64:10	<b>larger (3)</b> 55:23;59:9,12	<b>lights (1)</b> 22:16	<b>lose (3)</b> 12:6;27:10,10
<b>indicative (1)</b> 67:16	<b>interrogatory (6)</b> 24:6,17;25:7,12; 28:9;72:4	<b>Last (6)</b> 40:10;54:6;56:18; 57:5,11;70:12	<b>likely (1)</b> 15:5	<b>loss (1)</b>
<b>indicator (1)</b> 55:3	<b>invasive (1)</b> 20:4	<b>lasting (1)</b> 49:12	<b>limited (1)</b> 27:23	
<b>individual (2)</b> 72:10,11	<b>in-vehicle (9)</b> 24:7,11,23;25:2; 29:11;31:22;32:3; 53:24;54:5	<b>Latorre (31)</b> 7:7;9:4,5,17,18; 10:4,5,16,17;22:23; 24:14;25:5,14;28:4; 29:2;30:18;31:7,10, 16;32:13;33:6;38:12; 44:1;45:14;53:13,16, 21;54:21;66:24;69:1; 70:10	<b>line (5)</b> 15:4;56:12,16; 62:24,25	
<b>information (5)</b> 9:25;10:13;24:5; 56:25;72:5	<b>investigated (2)</b> 58:14;60:3	<b>Latorre's (1)</b> 7:9	<b>linear (1)</b> 16:21	
<b>initial (1)</b> 26:11	<b>investigation (1)</b> 60:4	<b>law (1)</b> 5:4	<b>lined (1)</b> 56:20	
<b>initiate (1)</b> 26:20	<b>involved (1)</b> 58:12	<b>layer (1)</b> 17:6		
<b>inquiring (1)</b> 22:3	<b>issue (1)</b> 59:16	<b>leads (1)</b> 58:20		
<b>inspection (3)</b> 49:21;56:5,9	<b>issues (3)</b> 39:1;58:21;59:22	<b>lease (4)</b> 20:14;65:15;66:2,4		
<b>inspections (1)</b> 55:14	<b>item (1)</b> 56:19			
<b>install (4)</b> 14:21;17:3;19:6;	<b>items (5)</b> 6:11,12,13;9:1; 40:10			
	<b>J</b>			

67:4 <b>lot (11)</b> 42:24;49:6,8;50:25; 63:2;64:13,16;65:16; 66:20,20;70:14 <b>lots (1)</b> 59:19 <b>low (1)</b> 12:2 <b>lower (2)</b> 31:24;35:4 <b>LTE (4)</b> 24:13,20;25:16; 26:19 <b>lump (1)</b> 48:13	54:17;55:5,6;57:3; 63:4;69:6;72:4 <b>marked (1)</b> 6:11 <b>Mashamoquet (3)</b> 53:4,18;54:1 <b>material (9)</b> 13:10,22,24;14:8; 17:5,9,15,16;50:19 <b>materials (1)</b> 8:19 <b>mattress (7)</b> 17:3,16;18:1,11,14; 52:16;71:16 <b>mature (1)</b> 14:12 <b>matured (1)</b> 44:16 <b>may (11)</b> 5:25;27:13;29:11; 30:22,24;35:8;38:5; 45:10;53:2;54:13; 62:23 <b>maybe (9)</b> 19:3;33:3;36:22; 39:11;49:21;57:18; 58:4;60:13;66:13 <b>mean (4)</b> 18:2;22:12;49:1; 55:19 <b>meaning (2)</b> 20:7;22:14 <b>meaningful (1)</b> 54:7 <b>means (1)</b> 50:25 <b>measured (1)</b> 72:11 <b>measures (2)</b> 20:3;49:16 <b>mechanical (1)</b> 19:22 <b>mechanism (1)</b> 25:16 <b>meeting (1)</b> 69:4 <b>megahertz (22)</b> 25:8,25;26:1,1,2,10, 10,14,15;27:24;28:7, 16;32:8;52:21;53:1,6; 66:14,23;67:1,2;68:6, 8 <b>Melanie (1)</b> 4:12 <b>member (2)</b> 5:2,3 <b>members (2)</b> 4:5,11 <b>mentioned (4)</b> 15:10;21:24;65:14; 67:20 <b>Mercier (47)</b> 4:13;11:4,5;12:9,	21;13:6,20;14:1,18; 15:7,23;16:10,14; 17:22;18:17;19:2,20; 20:5,23;21:6;22:11; 24:4,25;25:6;27:22; 28:8;30:11;31:1,8,12; 32:12,25;33:11; 36:18;37:22;39:11; 40:9;41:11,15;42:5; 43:8,12;47:11;71:25; 72:1,17;73:9 <b>merits (1)</b> 5:3 <b>meta-populations (1)</b> 56:2 <b>middle (2)</b> 40:19;62:10 <b>might (14)</b> 13:15;14:9;19:10; 21:25;22:15;28:20; 44:10,11;47:19; 53:25;56:8;62:6; 63:22;68:22 <b>Mike (1)</b> 7:13 <b>mile (1)</b> 34:13 <b>mileage (1)</b> 54:4 <b>mimics (1)</b> 72:15 <b>minimal (5)</b> 35:22;48:8;49:17, 22;73:7 <b>minimize (5)</b> 14:16;17:13;20:20, 21;50:4 <b>minimized (1)</b> 38:20 <b>minimum (1)</b> 24:20 <b>minor (4)</b> 32:21;33:1,7;50:5 <b>misheard (1)</b> 47:7 <b>mitigated (1)</b> 38:20 <b>mobile (1)</b> 27:4 <b>model (4)</b> 30:15,23;72:6,14 <b>modeling (7)</b> 28:21;35:1,10;36:4, 19;68:18,24 <b>models (1)</b> 69:7 <b>modifications (1)</b> 9:13 <b>moment (1)</b> 42:18 <b>monitor (1)</b> 18:10 <b>month (1)</b>	49:22 <b>months (2)</b> 35:11;39:17 <b>more (33)</b> 14:25;25:10;30:16; 31:13;36:6,22;38:22; 39:24;42:25;46:16; 47:9;48:14,15;50:25; 57:21;58:19;59:17; 65:2,9;66:13;67:3,15; 68:14,24;70:1,17,19, 23;71:12,22,22;72:22, 24 <b>morning (1)</b> 11:24 <b>most (10)</b> 8:17;12:25;13:16; 15:5,12,16;28:12; 32:23;53:5;64:17 <b>mostly (2)</b> 13:18;71:12 <b>motions (1)</b> 6:9 <b>move (4)</b> 29:7;43:22;44:12; 45:5 <b>moves (1)</b> 27:5 <b>moving (2)</b> 34:7;65:8 <b>much (11)</b> 27:14,24;33:24; 34:23;39:15;41:4; 51:21;53:7;55:23; 59:9;68:22 <b>multiple (2)</b> 26:8;65:14 <b>municipal (1)</b> 61:2 <b>Murphy (15)</b> 4:6;43:16,17;45:7, 15,22;46:1,3;47:6,10, 24;48:12,22;49:11; 50:8 <b>must (1)</b> 43:4 <b>muted (1)</b> 40:4 <b>myself (2)</b> 18:6;24:15	38:19;41:7;47:17 <b>nearly (3)</b> 18:13,15;36:15 <b>nearer (1)</b> 39:7 <b>nearest (3)</b> 37:20;47:17;49:4 <b>necessarily (2)</b> 40:5;71:2 <b>necessary (5)</b> 19:6;38:8,9;47:9; 71:5 <b>necessitate (1)</b> 44:24 <b>need (12)</b> 4:20;20:2,8;21:21; 22:16,20;28:5;29:19; 44:10,17;45:3;73:3 <b>needed (3)</b> 20:22;51:24;71:14 <b>needs (3)</b> 13:15;44:5;73:8 <b>negative (3)</b> 24:21,22,23 <b>neighbors (1)</b> 5:24 <b>network (4)</b> 25:16;26:19;27:18; 30:7 <b>new (3)</b> 14:20;44:23;66:19 <b>Next (5)</b> 7:6;15:25;56:8; 64:23;65:5 <b>none (4)</b> 41:22;42:4;61:23, 23 <b>nonserviced (1)</b> 30:17 <b>normally (3)</b> 46:19;66:2,3 <b>north (7)</b> 17:1,12,13;29:7,7; 59:14;64:8 <b>northeast (1)</b> 57:14 <b>northward (1)</b> 59:5 <b>northwest (1)</b> 36:24 <b>note (4)</b> 5:19,22,25;1:51:8 <b>noted (1)</b> 29:12 <b>notice (5)</b> 8:16;21:6;40:10; 56:6;64:22 <b>noticed (2)</b> 6:14;70:20 <b>notices (1)</b> 6:18 <b>notification (1)</b> 41:19	
<b>M</b>					
<b>main (1)</b> 30:8 <b>mainly (1)</b> 16:22 <b>maintain (4)</b> 12:6,22;27:12;30:7 <b>maintained (1)</b> 50:6 <b>maintains (1)</b> 26:23 <b>maintenance (2)</b> 4:20;49:19 <b>major (2)</b> 33:2;39:25 <b>majority (3)</b> 19:11;35:1;63:9 <b>makes (2)</b> 32:22;70:5 <b>making (1)</b> 29:24 <b>manage (1)</b> 50:3 <b>managers (1)</b> 41:19 <b>manages (1)</b> 59:18 <b>managing (1)</b> 7:10 <b>manner (2)</b> 44:18,19 <b>many (2)</b> 33:15;34:18 <b>map (20)</b> 42:9,25;43:7;51:5; 54:12,13;55:5;56:25; 57:5,7,7;59:2;62:8; 63:1;64:5,8;65:5; 66:18;68:5,24 <b>mapped (1)</b> 42:10 <b>mapping (2)</b> 58:24;64:23 <b>maps (10)</b> 29:15;33:19;52:24;					
				<b>N</b>	
				<b>name (1)</b> 4:4 <b>National (4)</b> 40:19;41:10,13,22 <b>natural (1)</b> 40:21 <b>nature (2)</b> 19:23;49:8 <b>near (6)</b> 34:11,17;37:15;	

<p><b>number (9)</b> 6:12;13:3;24:17; 25:24;29:16;55:2; 57:7;58:8,14</p>	<p>35:25;62:4,16 <b>open (2)</b> 33:23;34:2 <b>operating (1)</b> 46:17</p>	<p>26:21 <b>own (1)</b> 21:14 <b>owner (4)</b> 59:17;63:6;65:15; 66:8</p>	<p><b>perhaps (2)</b> 44:13;52:8 <b>periods (1)</b> 12:1 <b>Permitting (1)</b> 7:14</p>	<p>36:11;37:5;38:7;40:2 <b>Policy (2)</b> 41:13,23 <b>Pomfret (9)</b> 4:23;6:6;23:21; 26:9;29:8;40:12; 53:15,20;69:16</p>
<b>O</b>	<p><b>operation (2)</b> 4:21;50:7</p>	<p><b>owners (4)</b> 23:1,9,18;63:10 <b>owner's (1)</b> 64:19</p>	<p><b>perspective (5)</b> 28:11;32:24;38:16; 48:5;58:22</p>	<p><b>ponding (1)</b> 13:18</p>
<p><b>oath (2)</b> 6:21;8:8</p>	<p><b>operations (1)</b> 24:2</p>	<b>P</b>	<p><b>phenomenon (2)</b> 68:24,25</p>	<p><b>pool (25)</b> 13:2;16:1;18:4; 48:4;49:4;55:2,3,6,10, 17,17,20,22,23;56:6, 7,10,13,14,14;58:8; 59:2,4,4,14</p>
<p><b>objection (1)</b> 6:13</p>	<p><b>opinion (2)</b> 30:19;47:25</p>	<p><b>page (6)</b> 54:25;57:6,11; 64:23;65:5;70:20</p>	<p><b>phone (2)</b> 26:17,20</p>	<p><b>pools (9)</b> 15:25;16:8;17:25; 18:13,15;49:10; 55:15,25;56:2</p>
<p><b>objections (1)</b> 6:15</p>	<p><b>opinions (1)</b> 61:6</p>	<p><b>painting (4)</b> 37:24;38:2;39:12; 40:3</p>	<p><b>photo (1)</b> 33:14</p>	<p><b>portion (3)</b> 13:1;37:8;41:1</p>
<p><b>objectives (1)</b> 69:5</p>	<p><b>opportunities (1)</b> 67:23</p>	<p><b>panel (2)</b> 6:21;7:3</p>	<p><b>photographs (1)</b> 36:12</p>	<p><b>portions (3)</b> 35:5;36:11;62:4</p>
<p><b>observations (1)</b> 11:7</p>	<p><b>opportunity (5)</b> 22:25;23:8;35:18; 44:12;61:8</p>	<p><b>parcel (3)</b> 42:19;43:1,3</p>	<p><b>photos (1)</b> 25:23</p>	<p><b>position (1)</b> 26:7</p>
<p><b>obvious (1)</b> 54:14</p>	<p><b>opposed (1)</b> 63:6</p>	<p><b>park (9)</b> 41:3,4;53:4,11,12, 18,19;54:1,3</p>	<p><b>physically (1)</b> 30:6</p>	<p><b>possibility (3)</b> 21:25;36:7;44:21</p>
<p><b>obviously (2)</b> 43:7;66:6</p>	<p><b>optimization (2)</b> 30:4;67:22</p>	<p><b>parks (1)</b> 53:3</p>	<p><b>picked (1)</b> 21:13</p>	<p><b>possible (4)</b> 4:22;21:11,17; 69:11</p>
<p><b>occurred (1)</b> 16:15</p>	<p><b>options (2)</b> 40:7;61:11</p>	<p><b>part (8)</b> 13:1,16;15:12,16; 26:11;29:14;58:25; 60:3</p>	<p><b>picking (1)</b> 12:4</p>	<p><b>posted (1)</b> 8:16</p>
<p><b>off (14)</b> 14:24;15:17;20:17; 36:8,17;37:7;42:24; 43:6;58:13;62:24,25; 64:5;65:3,7</p>	<p><b>oral (1)</b> 5:17</p>	<p><b>participate (1)</b> 5:21</p>	<p><b>picks (2)</b> 31:13;72:9</p>	<p><b>posting (1)</b> 8:15</p>
<p><b>offer (3)</b> 7:19;9:14;10:25</p>	<p><b>order (3)</b> 4:2;25:17;28:7</p>	<p><b>particular (11)</b> 23:25,25;26:3; 27:19;33:8;39:20; 43:3;54:7;55:10;57:9; 67:6</p>	<p><b>pipe (1)</b> 26:25</p>	<p><b>potentially (6)</b> 14:20;21:2;36:20; 43:19;59:19;65:23</p>
<p><b>offices (2)</b> 6:6;29:13</p>	<p><b>originally (1)</b> 20:11</p>	<p><b>partner (1)</b> 7:10</p>	<p><b>pixel (1)</b> 72:11</p>	<p><b>power (3)</b> 15:20;24:21;27:7</p>
<p><b>official (1)</b> 6:8</p>	<p><b>others (1)</b> 55:11</p>	<p><b>Partnership (3)</b> 4:18;5:6;7:1</p>	<p><b>place (1)</b> 17:14</p>	<p><b>prefer (2)</b> 15:12;61:7</p>
<p><b>off-the-record (1)</b> 5:1</p>	<p><b>Otherwise (1)</b> 16:25</p>	<p><b>party (1)</b> 5:5</p>	<p><b>placement (1)</b> 18:11</p>	<p><b>preferable (1)</b> 28:12</p>
<p><b>old (1)</b> 72:12</p>	<p><b>out (33)</b> 11:8;17:6;18:24; 19:4,12;20:25;22:3, 16,25;23:8,18;32:13; 34:1;37:7,18;38:5; 39:5,17;42:14,20; 43:5;52:20;55:8,16; 64:25;65:4,13;66:17, 20;67:10;72:15,16; 73:2</p>	<p><b>passes (1)</b> 15:24</p>	<p><b>places (1)</b> 61:24</p>	<p><b>potentially (6)</b> 14:20;21:2;36:20; 43:19;59:19;65:23</p>
<p><b>once (7)</b> 22:6,14;27:24;34:6; 49:21;66:6;69:18</p>	<p><b>outdoor (1)</b> 24:22</p>	<p><b>path (3)</b> 13:5;14:4,10</p>	<p><b>plan (4)</b> 18:5;51:4,25;63:24</p>	<p><b>predominate (1)</b> 19:13</p>
<p><b>one (50)</b> 4:22;12:6;14:10; 18:6;19:9,10;21:6; 22:11,15;23:6,6;25:4, 12;27:6;32:5,15,18; 33:2,7;36:1;37:11,14; 39:2;40:9;41:16; 42:21;43:22,25; 45:12;48:1,13;50:15, 23;52:17;53:3,17; 57:4;60:17;61:13; 63:23;64:11;67:14, 16,21;68:1;69:19; 70:2,4;71:6;73:1</p>	<p><b>outside (1)</b> 27:25</p>	<p><b>pending (1)</b> 19:19</p>	<p><b>plans (10)</b> 12:19;13:12;14:4; 23:13,15,23;42:20; 45:9;49:16;59:19</p>	<p><b>preferred (2)</b> 48:6,10</p>
<p><b>ones (1)</b> 39:22</p>	<p><b>outweighed (1)</b> 48:18</p>	<p><b>people (1)</b> 52:19</p>	<p><b>please (5)</b> 7:21;11:10;16:10; 51:2;60:22</p>	<p><b>preference (2)</b> 38:14;48:17</p>
<p><b>only (11)</b> 17:18,21;19:10; 20:15;27:23;39:21; 50:2;52:11;62:25; 71:7;72:9</p>	<p><b>over (12)</b> 12:22;28:1;33:3,10; 34:13;44:16,22; 48:10;50:6;54:25; 64:22;66:4</p>	<p><b>per (3)</b> 13:21;15:10;33:16</p>	<p><b>plots (3)</b> 25:2;28:14,16</p>	<p><b>preparation (1)</b> 8:25</p>
<p><b>onto (3)</b></p>	<p><b>overall (5)</b> 31:5;33:4;38:19; 41:8;47:21</p>	<p><b>perceived (1)</b> 44:5</p>	<p><b>plus (1)</b> 45:19</p>	<p><b>prepared (1)</b> 8:24</p>
	<p><b>overhead (1)</b> 15:5</p>	<p><b>performance (1)</b> 29:17</p>	<p><b>pm (3)</b> 4:4;5:15;73:16</p>	<p><b>preparing (1)</b> 29:15</p>
	<p><b>overlaps (1)</b> 31:14</p>		<p><b>pockets (2)</b> 30:23;36:5</p>	
	<p><b>overloaded (1)</b></p>		<p><b>point (4)</b> 23:10;38:25;41:22; 69:17</p>	
			<p><b>pointed (1)</b> 23:18</p>	
			<p><b>pole (7)</b> 14:20;15:4;35:5;</p>	

<p><b>present (3)</b> 4:6;6:20;61:8</p> <p><b>presented (6)</b> 32:19;60:24,25; 61:4,10;69:2</p> <p><b>preserve (1)</b> 14:15</p> <p><b>pretty (4)</b> 27:24;33:24;34:16; 38:18</p> <p><b>preventing (1)</b> 34:2</p> <p><b>previously (1)</b> 67:20</p> <p><b>primarily (3)</b> 34:4;40:1;70:24</p> <p><b>primary (1)</b> 15:20</p> <p><b>principal (1)</b> 7:6</p> <p><b>prior (2)</b> 11:23;12:8</p> <p><b>prioritization (1)</b> 61:19</p> <p><b>prioritize (1)</b> 60:17</p> <p><b>private (6)</b> 21:12,25;23:1,5,8, 18</p> <p><b>probably (3)</b> 37:14;39:17;68:14</p> <p><b>problem (2)</b> 28:21;64:4</p> <p><b>Procedure (2)</b> 4:17;46:17</p> <p><b>procedures (1)</b> 5:12</p> <p><b>proceed (1)</b> 5:8</p> <p><b>proceeding (1)</b> 10:14</p> <p><b>proceedings (2)</b> 5:5;73:15</p> <p><b>process (2)</b> 60:10;61:3</p> <p><b>professional (5)</b> 7:11,17;30:19;61:6; 68:3</p> <p><b>professionals' (1)</b> 61:6</p> <p><b>program (5)</b> 6:11;7:4;8:11,20; 9:1</p> <p><b>prohibit (1)</b> 34:22</p> <p><b>prohibited (1)</b> 5:4</p> <p><b>project (4)</b> 7:12;22:5;58:12; 71:23</p> <p><b>projected (1)</b> 31:5</p> <p><b>projects (1)</b></p>	<p>31:12</p> <p><b>pronunciation (2)</b> 53:3,25</p> <p><b>proper (1)</b> 34:7</p> <p><b>properly (2)</b> 50:4,6</p> <p><b>properties (2)</b> 46:13;57:8</p> <p><b>property (25)</b> 8:17;36:17;39:6,7; 42:10;48:5;57:20; 59:17,18;62:16,24,25; 63:6,10,10,11;64:2,4, 6,19;65:1,8,10,14; 66:7</p> <p><b>proportions (1)</b> 40:2</p> <p><b>proposal (2)</b> 23:12;58:3</p> <p><b>proposals (1)</b> 23:14</p> <p><b>proposed (29)</b> 11:18;13:6;17:2; 21:23;22:8;23:21; 26:9;28:14;30:4,9; 34:10;35:13,21; 37:24;38:2;42:11; 44:2,3;46:20;47:25; 53:24;54:20;56:23; 58:9;59:7,10;61:1; 63:19;67:25</p> <p><b>proposing (3)</b> 16:22;18:3,13</p> <p><b>Protection (3)</b> 4:8;18:5;49:16</p> <p><b>provide (12)</b> 16:18;17:10;18:8; 25:17;30:21;31:20; 44:6,19;54:2,8;61:9; 69:14</p> <p><b>provided (6)</b> 23:13;44:23;49:14; 50:6;52:25;56:25</p> <p><b>provides (2)</b> 29:4;54:7</p> <p><b>providing (4)</b> 48:8;53:24;59:19, 23</p> <p><b>provisions (1)</b> 4:15</p> <p><b>proximity (3)</b> 40:14;49:9;62:21</p> <p><b>public (12)</b> 4:20;5:15,16,17,21; 6:7,8;8:16;29:13; 32:20;42:8;73:13</p> <p><b>publication (1)</b> 8:14</p> <p><b>purple (1)</b> 11:21</p> <p><b>purpose (2)</b> 25:13;45:2</p>	<p><b>purposely (1)</b> 20:16</p> <p><b>purposes (2)</b> 6:21;8:21</p> <p><b>pursuant (1)</b> 4:14</p> <p><b>pushing (2)</b> 65:7;72:23</p> <p><b>put (12)</b> 13:9;35:12,16,20; 38:13,15,25;39:6; 46:17;66:7;67:10; 68:20</p> <p><b>putting (3)</b> 46:12;58:9;66:22</p> <p style="text-align: center;"><b>Q</b></p> <p><b>quality (6)</b> 25:21;26:16,17; 27:8,18;29:5</p> <p><b>Quarry (1)</b> 64:7</p> <p><b>quicker (1)</b> 20:18</p> <p><b>quickly (1)</b> 63:12</p> <p style="text-align: center;"><b>R</b></p> <p><b>radiofrequency (1)</b> 7:7</p> <p><b>Ragged (12)</b> 4:22;33:24;36:23; 42:24;57:8,14;58:10, 19;59:20,24;64:10,21</p> <p><b>rain (1)</b> 12:2</p> <p><b>raise (1)</b> 50:22</p> <p><b>raised (1)</b> 50:15</p> <p><b>raises (1)</b> 62:21</p> <p><b>ran (2)</b> 21:20;22:19</p> <p><b>rank (1)</b> 28:11</p> <p><b>rather (1)</b> 21:17</p> <p><b>reach (4)</b> 22:25;23:8;35:24; 36:15</p> <p><b>reached (1)</b> 22:3</p> <p><b>read (2)</b> 24:18,18</p> <p><b>reading (1)</b> 57:22</p> <p><b>real (2)</b> 68:22;72:15</p> <p><b>realized (1)</b> 60:9</p>	<p><b>really (26)</b> 14:2;28:19;34:8,8, 10,17,22,22;35:4; 36:10,11;37:15; 38:20;39:8,21;40:24; 47:11;48:20;49:2; 50:18;55:9;58:23; 64:6,13;68:10;70:13</p> <p><b>real-world (2)</b> 68:6,25</p> <p><b>reason (3)</b> 45:5;46:24;50:22</p> <p><b>reasonable (1)</b> 26:24</p> <p><b>reasons (2)</b> 32:18;39:2</p> <p><b>rebuild (1)</b> 13:8</p> <p><b>recall (1)</b> 19:11</p> <p><b>receive (1)</b> 26:8</p> <p><b>received (6)</b> 4:24;23:13,22,23; 24:21;61:2</p> <p><b>recently (2)</b> 8:17;69:25</p> <p><b>recess (2)</b> 5:14;73:12</p> <p><b>reconfigured (1)</b> 20:13</p> <p><b>reconnaissance (1)</b> 39:18</p> <p><b>reconstruct (1)</b> 51:9</p> <p><b>reconstructing (4)</b> 50:24;51:16;52:5, 15</p> <p><b>record (2)</b> 5:18;54:15</p> <p><b>recreational (2)</b> 40:23;41:3</p> <p><b>rectangular (1)</b> 20:15</p> <p><b>red (1)</b> 11:22</p> <p><b>reduced (2)</b> 27:7,8</p> <p><b>reference (2)</b> 24:21;55:1</p> <p><b>referenced (1)</b> 59:2</p> <p><b>referencing (1)</b> 42:22</p> <p><b>reflect (1)</b> 58:23</p> <p><b>reflected (2)</b> 58:24;62:7</p> <p><b>refuge (1)</b> 42:1</p> <p><b>regard (1)</b> 14:17</p> <p><b>regarding (6)</b></p>	<p>8:16;12:10;24:6; 28:13;33:13;72:3</p> <p><b>regards (1)</b> 29:3</p> <p><b>region (1)</b> 21:1</p> <p><b>registered (1)</b> 22:1</p> <p><b>re-graded (1)</b> 13:15</p> <p><b>regrading (2)</b> 73:2,5</p> <p><b>re-grading (1)</b> 20:21</p> <p><b>regulations (1)</b> 70:16</p> <p><b>related (1)</b> 24:2</p> <p><b>relates (1)</b> 67:6</p> <p><b>relatively (1)</b> 67:7</p> <p><b>relevancy (1)</b> 33:9</p> <p><b>reliable (5)</b> 28:5;30:25;32:3,4; 54:4</p> <p><b>remain (1)</b> 65:21</p> <p><b>reminder (1)</b> 5:1</p> <p><b>remote (2)</b> 34:16;35:9</p> <p><b>removal (3)</b> 14:3,16;15:9</p> <p><b>removals (1)</b> 14:12</p> <p><b>remove (1)</b> 19:21</p> <p><b>removed (1)</b> 20:3</p> <p><b>rephrase (1)</b> 31:22</p> <p><b>replace (2)</b> 17:8;52:1</p> <p><b>replaced (1)</b> 12:8</p> <p><b>report (1)</b> 23:4</p> <p><b>represent (1)</b> 42:16</p> <p><b>representation (1)</b> 36:13</p> <p><b>representatives (1)</b> 5:20</p> <p><b>represented (3)</b> 11:16,19,21</p> <p><b>representing (2)</b> 43:3;69:12</p> <p><b>represents (2)</b> 42:15;56:20</p> <p><b>request (1)</b> 33:16</p>
---	---	---	--	---

<b>requested (1)</b> 45:11	<b>RF (7)</b> 28:11;32:16,23;	40:25;64:7	28:20;66:14,15; 70:3,8	<b>shortly (2)</b> 12:7;24:15
<b>requesting (1)</b> 60:19	33:10;38:14;43:19;	<b>S</b>	<b>seeps (1)</b> 16:25	<b>short-term (1)</b> 50:4
<b>requests (1)</b> 70:1	<b>right (15)</b> 7:13,16;12:13;	<b>safety (1)</b> 24:2	<b>select (1)</b> 61:15	<b>shown (1)</b> 6:11
<b>require (3)</b> 14:12;15:9;17:6	15:25;16:22;18:18;	<b>sake (1)</b> 65:21	<b>selected (1)</b> 41:16	<b>shows (2)</b> 42:10;56:18
<b>required (7)</b> 15:19;19:25;22:14, 18:41;19:71;17,23	45:21;53:15;63:14, 17:66;15;69:1	<b>salamander (1)</b> 55:20	<b>Senator (2)</b> 4:6;43:16	<b>shrink (2)</b> 64:24;67:24
<b>requirements (1)</b> 23:3	<b>right-hand (1)</b> 64:12	<b>same (4)</b> 6:2;27:3,11;49:3	<b>send (1)</b> 5:25	<b>side (11)</b> 15:2,4,13;17:14; 33:23;37:16;43:1,1; 57:14;64:13;70:24
<b>requires (1)</b> 71:19	<b>rise (1)</b> 7:21	<b>satisfied (2)</b> 43:24;45:11	<b>sending (1)</b> 23:15	<b>sign (1)</b> 8:16
<b>reserved (1)</b> 5:16	<b>Road (76)</b> 4:23;12:11,13,17, 18,19,23;13:4,9,13, 21;14:5,8,20,23,23; 15:3,5,13,18,23;16:9, 20,24,25;17:2,7,15, 25;19:11,13;32:14; 33:3,4,8,24;36:1,5,17, 21;37:12,15,16,18; 42:24;50:6,25;51:9, 13,17,20;52:1,5;57:8, 14;58:10,10,19,19; 59:20,21,23,24;62:4; 63:14;64:7,9,13,15, 20,21,25;65:22; 66:20;71:13,21	<b>satisfies (1)</b> 61:16	<b>Senior (1)</b> 7:16	<b>signal (8)</b> 24:21;26:8,15,15, 16;28:5;30:25;44:20
<b>residence (4)</b> 37:20;39:21;47:18; 64:11	<b>roadbed (1)</b> 16:4	<b>saw (4)</b> 11:25;19:3;35:10; 66:21	<b>sense (2)</b> 34:8;71:3	<b>signals (1)</b> 26:24
<b>residences (4)</b> 30:8;37:10;38:19; 39:4	<b>roads (4)</b> 14:4;30:8;36:15; 50:20	<b>saying (4)</b> 30:12;36:18;40:6; 55:2	<b>sentence (1)</b> 24:19	<b>signed (1)</b> 8:15
<b>resident (2)</b> 62:5;63:7	<b>roadway (1)</b> 51:16	<b>scenic (1)</b> 36:1	<b>September (1)</b> 4:3	<b>signed (1)</b> 8:15
<b>residential (2)</b> 36:23;37:2	<b>roadways (2)</b> 34:3;50:17	<b>schedule (1)</b> 70:20	<b>sequencing (1)</b> 18:3	<b>significance (1)</b> 40:24
<b>residents (1)</b> 39:4	<b>Robin (1)</b> 4:4	<b>School (1)</b> 29:13	<b>seriously (1)</b> 48:14	<b>significant (1)</b> 54:9
<b>resource (1)</b> 49:4	<b>Robinson (2)</b> 5:7;6:25	<b>School (1)</b> 29:13	<b>serve (1)</b> 32:2	<b>significantly (3)</b> 46:8;52:4;62:24
<b>resources (5)</b> 40:14,16,21;42:3; 49:10	<b>rock (2)</b> 19:20;20:1	<b>scientific (1)</b> 46:24	<b>service (41)</b> 24:11,13,20,22,23, 24;25:3,9,22;27:8,10, 13,18;28:14;29:5,6, 11,18,21;30:13,21,24, 25;31:9,14,15,23; 32:3,8;44:5,7,24,25; 53:25;54:3,5;61:9; 67:1,2;68:6,9	<b>similar (4)</b> 13:1;14:17;29:4; 59:6
<b>respect (1)</b> 36:14	<b>Roman (3)</b> 6:12;8:11;9:1	<b>Scientist (2)</b> 7:16,17	<b>services (6)</b> 25:19;44:19,23; 67:13,19;68:11	<b>simply (1)</b> 13:7
<b>respond (1)</b> 8:23	<b>roughly (2)</b> 61:9;70:25	<b>scientists (1)</b> 18:7	<b>session (4)</b> 5:14,15,16,22	<b>simulation (1)</b> 33:17
<b>responder (1)</b> 20:25	<b>Route (9)</b> 28:18,24;29:3,5,7; 30:13;32:9,13;59:7	<b>se (1)</b> 13:22	<b>sessions (1)</b> 25:19	<b>site (137)</b> 7:9;11:19,21,22; 12:7,7,8,10,14,15,15, 20,22;14:3,10,21; 15:10,23;17:18,19,21, 23;18:7;19:5,12; 20:13,24;22:8;25:9; 27:5,22;28:3,11,19, 25;29:8,9,22;30:12, 13,15;31:3,3,4,12,16, 20,23,23;32:2,4,4,8,9, 11,21;33:1,1,3,3,5,7; 34:7,23;36:6,14,19, 20,22;37:5,8,9,13,16, 17,19,25;38:5,16,18, 21;39:5,12,19;40:14; 41:15;42:10,20,21; 47:16;48:7,11;49:5, 17,20,24;50:2;51:17; 54:2,5,6,6,6,8,8,20,22; 58:4,10,16,20;59:8, 11;61:16;62:2,14; 63:19,23;64:18,22; 65:5,22,22;66:15; 67:6;68:8,15;69:9; 70:22;71:1,4,7,11,14, 19,21;72:18
<b>response (6)</b> 24:7,18;28:9;52:25; 58:3;61:1	<b>routes (1)</b> 58:15	<b>search (2)</b> 21:14;58:16	<b>sets (1)</b> 67:15	
<b>responses (5)</b> 8:14;23:23;25:12; 57:4;72:5	<b>RSRP (3)</b> 24:22,22,23	<b>searched (1)</b> 55:22	<b>setting (1)</b> 40:23	
<b>restate (1)</b> 31:11	<b>rugged (1)</b> 34:19	<b>season (2)</b> 56:3,4	<b>seven (2)</b> 55:5;58:13	
<b>result (1)</b> 27:12	<b>rule (1)</b> 52:11	<b>seasonal (5)</b> 33:17;35:1;36:6; 61:25;65:9	<b>several (2)</b> 46:9;49:10	
<b>resume (1)</b> 5:14	<b>ruled (1)</b> 22:16	<b>second (3)</b> 38:18;53:17;71:21	<b>shallow (1)</b> 16:24	
<b>retaining (2)</b> 20:8,12	<b>runs (2)</b>	<b>section (8)</b> 8:12;16:12,21;19:9; 33:3;55:6;56:22; 64:17	<b>sheet (4)</b> 8:17;16:22,24; 42:23	
<b>revealed (2)</b> 21:21;22:19		<b>sections (1)</b> 36:21	<b>sheets (2)</b> 50:23;51:15	
<b>review (5)</b> 11:6,13;16:3;23:17; 61:14		<b>sedimentation (1)</b> 18:25	<b>short (1)</b> 34:16	
<b>reviewed (1)</b> 23:24		<b>seeing (6)</b> 36:10;47:22;53:8; 67:11;68:23;69:19	<b>shortest (1)</b> 71:20	
<b>reviewing (1)</b> 22:23		<b>seem (1)</b> 62:9		
		<b>seemed (1)</b> 61:20		
		<b>seems (5)</b>		

<b>sited (2)</b> 14:14;20:11	29:4;42:25;49:7; 59:6;64:19;69:24	<b>standard (1)</b> 46:17	<b>substantial (2)</b> 29:21;47:15	50:24
<b>sites (43)</b> 11:12,15,16;14:5; 19:7,16;20:24;21:11, 21:22;11:28;11,15, 18;29:1;30:20;31:18; 32:17;33:21;34:9,10, 15;36:4;39:3,9;41:12; 42:12;46:9,13;47:25; 48:5,10;49:2;50:17; 60:11,16,17,20;61:7, 23;62:13;68:21; 70:25;71:17	<b>somewhere (1)</b> 5:10	<b>standpoint (4)</b> 39:22;41:2;71:18, 19	<b>substantially (1)</b> 70:23	<b>taller (2)</b> 31:25;47:19
<b>Siting (8)</b> 4:3,5,13;5:12;7:14; 23:25;57:5;61:10	<b>sorry (5)</b> 31:10;42:22,23; 45:23;46:3	<b>start (6)</b> 11:8;18:9;34:6; 43:15;46:12;70:18	<b>substrate (1)</b> 12:14	<b>technique (1)</b> 27:16
<b>sitting (1)</b> 60:8	<b>sort (4)</b> 48:24;54:19;56:12; 70:3	<b>started (1)</b> 24:16	<b>subsurface (2)</b> 17:10,11	<b>techniques (1)</b> 30:4
<b>situations (1)</b> 47:3	<b>sound (1)</b> 54:13	<b>starting (2)</b> 11:4;67:15	<b>successful (1)</b> 11:11	<b>Technology (3)</b> 7:15,18;27:23
<b>six (12)</b> 14:12;15:10;55:2, 16,18,23;56:7,14; 58:8,13;59:4,14	<b>sounds (1)</b> 55:8	<b>state (12)</b> 21:1;33:22;35:25; 41:4;53:3,4,11,18,19; 54:1,3;68:10	<b>summarized (1)</b> 58:16	<b>telecommunication (1)</b> 4:21
<b>size (1)</b> 59:10	<b>south (8)</b> 17:12;29:8;33:21, 25;35:24;41:5;57:25; 64:21	<b>stated (2)</b> 16:3;36:20	<b>summary (1)</b> 58:17	<b>temporary (2)</b> 19:1;49:8
<b>slight (1)</b> 32:14	<b>southeast (3)</b> 32:10;37:21;41:5	<b>statement (1)</b> 71:11	<b>supplied (1)</b> 58:25	<b>ten (2)</b> 12:17,22
<b>slightly (4)</b> 30:14;31:25;33:5; 62:3	<b>southern (1)</b> 41:1	<b>statements (4)</b> 5:17,25;6:2,19	<b>supply (1)</b> 42:9	<b>tends (1)</b> 57:20
<b>slope (1)</b> 72:20	<b>south-southeast (1)</b> 62:5	<b>Statutes (1)</b> 4:16	<b>sure (13)</b> 22:7;24:12,14;25:4; 36:2;43:12;50:16; 52:6;56:15;61:23; 63:15;66:24;68:8	<b>term (1)</b> 25:9
<b>slopes (1)</b> 20:7	<b>southwest (2)</b> 37:21;43:1	<b>stay (1)</b> 67:18	<b>surely (1)</b> 45:9	<b>terms (18)</b> 20:20;31:17;33:9; 36:15;37:10;38:18, 20;40:20,23;47:21; 53:1,8,9,23;54:3; 64:24;65:20;68:16
<b>slowly (1)</b> 16:25	<b>speak (2)</b> 44:14;47:9	<b>Stein (2)</b> 4:4;71:10	<b>surface (2)</b> 17:11;72:22	<b>terrain (2)</b> 29:11;30:2
<b>smack (1)</b> 40:18	<b>speaking (2)</b> 23:10;66:25	<b>step (1)</b> 62:16	<b>surround (1)</b> 30:9	<b>test (1)</b> 57:3
<b>small (7)</b> 16:7;30:23;42:19; 66:14;67:7;68:4;73:5	<b>species (2)</b> 55:3,21	<b>sticking (1)</b> 19:4	<b>surrounding (1)</b> 30:5	<b>testified (1)</b> 8:8
<b>smaller (1)</b> 67:2	<b>specific (3)</b> 32:1;41:15;42:3	<b>still (3)</b> 30:24;49:18;55:25	<b>susceptible (1)</b> 67:3	<b>testimony (2)</b> 10:14;45:18
<b>soften (1)</b> 39:24	<b>specifically (2)</b> 14:14;55:9	<b>stone (2)</b> 17:4;19:22	<b>suspect (1)</b> 37:6	<b>testing (2)</b> 28:23;29:16
<b>softer (1)</b> 40:8	<b>spectrum (1)</b> 44:22	<b>strategy (1)</b> 26:11	<b>swaths (1)</b> 46:11	<b>tethered (2)</b> 11:17;35:15
<b>software (4)</b> 25:15;26:19;27:16, 23	<b>speeds (3)</b> 27:14,14,21	<b>strength (2)</b> 26:15;44:20	<b>Swedetown (8)</b> 12:18;14:20;15:5; 36:5,21;37:11;62:4; 64:10	<b>Thanks (1)</b> 45:15
<b>soil (2)</b> 7:17;19:19	<b>spoken (1)</b> 6:3	<b>stretch (4)</b> 16:7,19;40:25;64:9	<b>sworn (2)</b> 7:19;8:6	<b>third (1)</b> 38:21
<b>soils (1)</b> 16:4	<b>spots (1)</b> 35:9	<b>strictly (4)</b> 32:23;38:15;64:25; 65:6	<b>switch (1)</b> 64:22	<b>though (2)</b> 30:14;39:5
<b>somebody (1)</b> 60:20	<b>spotted (1)</b> 55:19	<b>strong (1)</b> 26:16	<b>sworn (2)</b> 7:19;8:6	<b>thought (1)</b> 50:18
<b>someone (2)</b> 12:12;16:3	<b>spotting (4)</b> 35:12,23;45:24; 46:18	<b>structure (2)</b> 36:24;47:20	<b>system (1)</b> 26:21	<b>three (60)</b> 4:22;11:12;12:20; 13:14;14:11,12,16; 15:10,21;16:1,8; 18:16,21,21;19:7; 20:5,9,24;21:11; 22:11,24:1;28:15,17; 29:1,4,10,20;30:20, 22;32:17,19,23; 33:21;34:15;35:14; 39:2;43:25;45:12; 47:25;48:9;50:17; 51:15;52:1;57:21; 59:10;60:11,17,20,25; 61:15;63:20;68:21, 21;69:3,13,14,18,21; 70:23;73:6
<b>someone's (1)</b> 62:16	<b>spotty (2)</b> 12:1;28:20	<b>studies (1)</b> 21:20	<b>systems (1)</b> 20:12	<b>three-foot (1)</b>
<b>somewhat (6)</b>	<b>springtime (1)</b> 55:14	<b>study (2)</b> 41:2;72:13	<b>tab (9)</b> 21:9;33:14;42:21; 54:12,25;57:6,7; 63:20,23	
	<b>square (4)</b> 42:13,15,19;54:4	<b>sub (1)</b> 13:13	<b>table (1)</b> 50:2	
	<b>stabilization (1)</b> 72:25	<b>subbase (2)</b> 13:13;51:22	<b>talking (11)</b> 35:2;36:8,11;38:4; 47:1,14,17;49:21; 51:15;59:16;73:7	
	<b>stabilizing (1)</b> 72:23	<b>subject (1)</b> 8:21	<b>talks (1)</b>	
	<b>stable (1)</b> 16:16	<b>submittal (1)</b> 57:4		
	<b>staff (2)</b> 4:11;5:3	<b>submitted (2)</b> 8:19;61:1		

**T**

58:4 <b>threshold (2)</b> 24:12,20 <b>thresholds (1)</b> 24:8 <b>throughout (1)</b> 13:5 <b>throughputs (1)</b> 25:21 <b>thumbs (2)</b> 60:15,15 <b>times (2)</b> 56:5;59:10 <b>Title (1)</b> 4:15 <b>today (10)</b> 4:3;11:6,11,25; 16:23;32:20;34:7; 45:2;47:23;69:3 <b>took (4)</b> 22:25;23:7,15;58:9 <b>top (5)</b> 13:10;17:15;35:3; 43:22;45:20 <b>topographic (1)</b> 34:20 <b>topographical (1)</b> 32:22 <b>topography (6)</b> 20:17;34:5;57:13; 68:15;69:9;72:9 <b>total (1)</b> 68:7 <b>totally (2)</b> 36:8;37:7 <b>towards (3)</b> 35:19;58:20;59:5 <b>tower (15)</b> 19:16;20:1;21:23; 24:1;35:4,19;37:2,22; 40:16;43:19,23,24; 44:11;58:3;71:8 <b>towers (6)</b> 31:25;34:3;45:12; 47:1;69:18;70:1 <b>town (7)</b> 6:5;23:21;29:13; 40:11;41:3,4;53:20 <b>traffic (3)</b> 49:20,22;66:21 <b>training (1)</b> 18:9 <b>transcript (1)</b> 6:4 <b>transmit (1)</b> 27:1 <b>tree (11)</b> 14:3,12,16;15:9; 20:20;34:6;35:8;40:5; 72:6,9,10 <b>trees (20)</b> 14:10;34:10,19; 35:2,6;36:9,9;37:2,7,	12;44:15;62:6,22,23; 65:3,17,20;67:4; 68:17;72:10 <b>triangle (1)</b> 42:13 <b>triangles (2)</b> 42:16;43:4 <b>true (1)</b> 10:1 <b>trust (1)</b> 59:18 <b>try (2)</b> 47:2;48:25 <b>trying (5)</b> 21:15;28:17;34:1; 42:14;52:6 <b>Tuesday (1)</b> 4:3 <b>tuned (1)</b> 69:7 <b>turned (1)</b> 13:3 <b>turtle (1)</b> 55:19 <b>twelve (1)</b> 12:17 <b>twelve-foot (2)</b> 12:23;13:11 <b>twice (1)</b> 24:11 <b>two (31)</b> 13:3;14:10;15:24, 25:16:1,8;17:24,24; 18:15,18;22:15,25; 23:5;27:11;28:6; 34:21,25;37:11,14; 39:19;42:8;51:25; 57:3,21;58:4;59:5,8, 11;67:15;70:17;72:2 <b>type (9)</b> 16:1;37:24;38:2,6, 11;40:3;42:2;47:4,18 <b>types (1)</b> 15:9 <b>typical (1)</b> 67:14 <b>typically (1)</b> 46:25	14:19,22;15:6 <b>unexpected (1)</b> 67:12 <b>unfair (1)</b> 48:24 <b>Uniform (1)</b> 4:16 <b>unlike (1)</b> 72:11 <b>unusable (1)</b> 27:7 <b>up (34)</b> 11:12,15,23;12:4, 18;13:2,23;18:19; 21:13;31:13;33:2; 35:12,17,20;40:20,23; 43:20,22;44:12;45:5, 17;46:17;47:12,14; 51:10,17;54:23; 56:18;60:15;61:18; 64:7;66:22;70:16; 72:9 <b>updated (1)</b> 23:13 <b>upgrade (1)</b> 17:22 <b>upgrades (3)</b> 13:7;14:2;50:19 <b>upland (1)</b> 17:24 <b>upload (3)</b> 25:23;27:14,21 <b>upon (4)</b> 4:17;5:3;30:2;31:2 <b>upper (1)</b> 40:2 <b>use (3)</b> 25:8;66:8;70:14 <b>used (4)</b> 25:10,12;72:6,12 <b>uses (1)</b> 65:14 <b>using (2)</b> 28:2,2 <b>usually (2)</b> 52:22;61:20 <b>utilities (4)</b> 14:19,22;15:8; 71:14 <b>utility (1)</b> 15:20 <b>utilize (2)</b> 17:18;25:18	6:4 <b>verification (1)</b> 8:21 <b>Verizon (28)</b> 4:18;5:6;7:1,6,8; 23:2;25:17,24;26:7, 13,23;27:4,9;29:14, 21;30:3,25;43:22; 44:2,11;45:2,5,8; 58:13;61:8;66:3; 67:11,17 <b>Verizon's (12)</b> 23:11,14;25:17,19; 26:4;27:17;44:5,17, 23;45:1;69:4,21 <b>vernal (33)</b> 13:2;15:25;16:1,7; 17:25;18:4,13,15; 48:4;49:4,10;55:2,3,6, 10,15,17,17,20,22,23, 25;56:2,6,7,13,13,14; 58:8;59:2,4,4,14 <b>versus (1)</b> 71:7 <b>Vice (1)</b> 4:7 <b>vicinity (3)</b> 12:14,24;22:5 <b>videos (1)</b> 25:23 <b>view (2)</b> 45:13;62:17 <b>viewing (1)</b> 12:5 <b>views (10)</b> 34:2,11,17,22;35:1; 37:20;38:19;39:25; 47:17;62:23 <b>visibility (25)</b> 12:2;33:13,18;36:6, 16;37:18;38:16,19,22, 23;41:2,6;45:16; 47:21;61:22,24,25; 62:3;63:9;64:18;65:8, 9,16,24;72:3 <b>visibilty (2)</b> 35:24;47:12 <b>visible (6)</b> 35:5;36:21;37:5; 39:14;40:15;62:14 <b>visual (2)</b> 39:22;65:20 <b>voice (2)</b> 25:19,22	<b>walls (1)</b> 20:8 <b>water (3)</b> 17:11,12;42:9 <b>watershed (1)</b> 42:9 <b>way (9)</b> 4:10;11:9;19:12; 27:6;51:16;62:18; 66:8;68:18;69:4 <b>webpages (1)</b> 25:23 <b>weight (1)</b> 6:2 <b>Weinpahl (27)</b> 7:10;9:2,3,15,16; 10:2,3,14,15;12:16, 25;13:12,24;14:9; 15:1,11;19:8,18,24; 20:10;38:24;51:3,7, 12,18;52:7;61:5 <b>welcome (1)</b> 57:2 <b>weren't (1)</b> 19:21 <b>west (4)</b> 15:4;28:24;43:1; 64:12 <b>wet (1)</b> 59:5 <b>wetland (22)</b> 15:24;16:4,20;17:8, 14,23;18:4,6,21,21; 48:4;49:4,9;52:15; 56:21;59:3,5,8,9,11, 12;71:15 <b>Wetlands (3)</b> 7:16;16:9;18:12 <b>what's (3)</b> 17:3;25:13;72:16 <b>Whereupon (1)</b> 73:15 <b>white (3)</b> 30:16;35:16;45:19 <b>whole (3)</b> 64:5;70:14;72:13 <b>wide (2)</b> 12:17;13:11 <b>wide-scale (1)</b> 14:6 <b>width (2)</b> 12:14,23 <b>wilderness (1)</b> 42:2 <b>wildlife (1)</b> 42:1 <b>wind (1)</b> 15:17 <b>winds (1)</b> 12:2 <b>winter (2)</b> 35:11;39:16 <b>wintertime (1)</b>
	<b>U</b>			
	<b>unable (1)</b> 5:24 <b>unanticipated (1)</b> 67:12 <b>unavailable (1)</b> 27:7 <b>uncommon (1)</b> 46:12 <b>under (6)</b> 8:8,11;23:3;41:22; 47:2;53:15 <b>underground (3)</b>		<b>V</b>	
		<b>Valley (3)</b> 29:9;34:15;40:11 <b>variable (2)</b> 12:3;72:16 <b>vast (2)</b> 35:1;63:9 <b>verbatim (1)</b>	<b>W</b>	<b>walk (4)</b> 12:7,8;13:2;19:3 <b>walked (1)</b> 12:11 <b>wall (1)</b> 20:12



40:1 <b>Wireless (6)</b> 4:18;5:6;7:2,6,8; 58:14 <b>wish (3)</b> 5:19,22;6:10 <b>within (7)</b> 6:1;22:21;30:7; 40:12;70:25;71:1; 72:10 <b>without (1)</b> 62:15 <b>witness (111)</b> 6:21;7:3;9:3,5,7,9, 11,16,18,20,22,24; 10:3,5,7,9,11,15,17, 19,21,23;11:14;12:16, 25;13:12,24;14:9; 15:1,11;16:6,12,17; 17:20;18:2,20;19:8, 15,18,24;20:10;21:4, 19;22:17,23;24:14; 25:5,14;28:4;29:2; 30:18;31:7,10,16; 32:13;33:6;34:4;37:4; 38:1;39:15;40:17; 41:14,21;42:17; 43:10;44:1;45:14,21, 23;46:2,6;47:8,13; 48:3,20;49:1,14;51:3, 7,12,18;52:7,10,14; 53:13,16,21;54:21; 55:12;56:17;57:2,16, 19,24;58:6,11;60:2; 62:1,12;63:3,8,15,18; 65:25;66:10,24;69:1; 70:10;71:9;72:7,24 <b>witnesses (4)</b> 5:20;8:6,22,23 <b>wonderful (1)</b> 27:16 <b>wondering (2)</b> 62:11;66:21 <b>wood (3)</b> 14:15;55:19,19 <b>wooded (3)</b> 14:15;40:23;65:2 <b>woods (5)</b> 12:11;14:24;39:10, 14;58:18 <b>Woodstock (4)</b> 6:6;23:6;29:8; 69:16 <b>wording (1)</b> 52:7 <b>work (5)</b> 18:10;50:25;70:19; 71:4,22 <b>working (1)</b> 7:8 <b>works (2)</b> 25:24;26:19 <b>world (2)</b>	68:22;72:15 <b>worthwhile (1)</b> 44:25 <b>wrapped (1)</b> 17:5 <b>written (2)</b> 5:25;6:2 <b>wrong (3)</b> 42:23;53:2;54:1 <b>wrote (1)</b> 46:4  <b>Y</b>  <b>year (5)</b> 34:6;56:3,3,8;62:16 <b>year-round (3)</b> 33:17;61:25;62:3 <b>years (4)</b> 39:19;44:9;54:11; 58:13 <b>yellow (1)</b> 63:5  <b>0</b>  <b>04 (1)</b> 57:9 <b>06B00101 (1)</b> 43:2 <b>06-C-003.01 (1)</b> 57:9  <b>1</b>  <b>1 (4)</b> 6:12;9:1;54:12; 57:7 <b>10 (2)</b> 70:25;71:1 <b>105 (1)</b> 24:21 <b>11 (1)</b> 54:25 <b>120 (1)</b> 47:1 <b>130 (2)</b> 44:4;71:7 <b>15 (5)</b> 31:18;45:19,22; 46:3,4 <b>150 (2)</b> 44:4;47:1 <b>150-foot (1)</b> 71:7 <b>16 (1)</b> 4:15 <b>18 (2)</b> 4:3;21:9 <b>1900 (1)</b> 26:1 <b>197 (1)</b> 32:14	<b>198 (8)</b> 28:18,19,24;29:3,5, 7;30:14,21 <b>1D (1)</b> 6:12  <b>2</b>  <b>2 (1)</b> 8:12 <b>20 (5)</b> 43:20,20;44:9; 45:17,22 <b>200 (1)</b> 47:2 <b>2018 (2)</b> 4:3,25 <b>20-foot (1)</b> 47:14 <b>21 (2)</b> 25:7;53:7 <b>2100 (12)</b> 25:8;26:1,10,15; 27:24;28:7;66:14,16, 19,23;67:1;68:6 <b>2100-antennas (1)</b> 66:22 <b>22 (1)</b> 28:9 <b>244 (3)</b> 33:23;35:25;40:25 <b>26 (1)</b> 70:20 <b>260 (1)</b> 62:25 <b>2B (1)</b> 9:1  <b>3</b>  <b>3 (3)</b> 4:4;54:25;63:21 <b>30 (2)</b> 6:1;44:9 <b>31 (1)</b> 33:15  <b>4</b>  <b>4:29 (1)</b> 73:16  <b>5</b>  <b>5 (1)</b> 9:2 <b>50 (8)</b> 35:13,17,21;45:24; 46:2,6,19,25  <b>6</b>  <b>6:30 (3)</b>	5:15,16;73:12 <b>60 (2)</b> 16:20;72:13 <b>65 (1)</b> 72:13  <b>7</b>  <b>700 (10)</b> 25:25;26:10,14; 27:25;28:6,16;32:8; 53:6;67:2;68:8 <b>72 (2)</b> 4:22;6:12  <b>8</b>  <b>8 (1)</b> 11:23 <b>810 (1)</b> 51:10 <b>820 (1)</b> 57:17 <b>830 (3)</b> 57:18,19,22 <b>832 (1)</b> 58:4 <b>833 (2)</b> 54:22;58:4 <b>85 (1)</b> 24:23 <b>850 (1)</b> 26:2  <b>9</b>  <b>9 (2)</b> 4:24;33:14 <b>95 (1)</b> 24:22 <b>97 (1)</b> 32:9
---	--	---	---