

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 MICHIGAN  
COUNTY OF OTTAWA

IN RE: BEECHTREE DRAIN  
BOARD OF DETERMINATION

Proceedings commenced at 10:00 a.m., on Monday, August 26, 2019, at the Grand Haven Township Hall, 13300 168th Avenue, Grand Haven, Michigan, held before Marjorie A. Covey, CSR-2616, Certified Shorthand Reporter and Notary Public.

APPEARANCES:

- Mr. Joe Bush, Ottawa County Water Resources Commissioner
- Mr. Chad Meints, Chief Deputy to Water Resources Comm.
- Ms. Stacy Hissong,  
Attorney for Ottawa County Water Res. Commission
- Ms. Sara Hirts, Secretary
  
- Mr. Bill Cargo, Grand Haven Township Manager
  
- Mr. Ken Souter, Board Chairman
- Mr. Rick VanderKlok, Board Secretary
  
- Mr. Paul Forton, P.E., Spicer Group, Inc.
- Mr. Larry Protasiewicz, P.E., Spicer Group, Inc.

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

Grand Haven, Michigan

August 26, 2019 - 10:00 a.m.

PROCEEDINGS.

ATTORNEY HISSONG: We can still move forward, we have a quorum so it's allowable.

BOARD MEMBER KEN SOUTER: Done it before.

WATER RESOURCES COMM. JOE BUSH: All right. Well good morning, everyone. Welcome to the Grand Haven Township Hall. I am Joe Bush, the Ottawa County Water Resources Commissioner, also the Ottawa County Drain Commissioner. We changed the name back in 2012 and so my current title is Water Resources Commissioner, but also known as again the Drain Commissioner.

We're here today because we received a petition from Grand Haven Township on the Beechtree Drain. So I appreciate you guys being here this morning to listen to this public hearing and why we're having it and kind of what we're -- what we hope to accomplish here today, and moving forward.

We have a few things going on, but I appreciate you taking the time again to come and learn and listen and figure out what we're doing moving forward.

Again my name is Joe Bush, and then I'll do some introductions first.

When we get a petition in we have to hold a BOD,

1 Board of Determination, and that's per the Drain Code. So in  
2 doing that I have to pick a three-member board, we'll go  
3 ahead and introduce those folks. We only have two here, I  
4 don't know why the third one isn't here yet. Either he got  
5 lost or -- but he was supposed to be here, but we can move  
6 forward with two according to my legal counsel because we  
7 have a quorum.

8           So I'll go ahead and introduce those folks. To  
9 your right is Rich VanderKlok, and Rich is from Georgetown  
10 Township. And Rich has been doing quite a few of these for  
11 me, and when I pick a three-panel board they are usually  
12 people who are township supervisors, township managers, or  
13 retired from the road commission, they understand drainage,  
14 they understand Drain Code, and they understand -- a lot of  
15 times they sit on the other side of the fence and they get  
16 both sides.

17           So when you go and give public testimony later,  
18 these folks will listen to you and try to find out where  
19 you're coming from on your angle. So I pick people who have  
20 experience on a lot of Drain Code, that's why we're here  
21 today.

22           And then in the center, that's Ken Souter, he  
23 worked for the road commission for nearly 40 years at the  
24 Ottawa County Road Commission, he is now retired, but he is  
25 an expert in drainage and understands Drain Code. He's done

1 a lot of these for me.

2 And the third one would have been Larry, he's from  
3 Georgetown and he was a township leader over there many  
4 years, retired. So these individuals have no ownership or  
5 properties in this district whatsoever.

6 So that's why I pick them. They don't have any  
7 properties in this township, period, or in the location we're  
8 talking about today. So there is no conflict of interest.

9 And then everything is court recorded, so Margie is  
10 my court recorder. And if you ever go and look later on,  
11 what did Joe say or what did the township say or what did the  
12 board members say, again, everything is word for word and it  
13 will be on my website at [miottawa.org](http://miottawa.org), or look under Water  
14 Resources Commissioner, give her about six to eight weeks to  
15 get me the transcript and everything is online. That way you  
16 can go back and reference that.

17 I also have today legal counsel, her name is Stacy  
18 Hissong up here in the front row. Stacy has been -- she  
19 works for over 40 drain commissioners across the state and  
20 multiple other people in drainage, and I would say she's an  
21 expert in Drain Code. She's here to give an overview for the  
22 board.

23 The board really has no idea kind of what we're  
24 talking about today because we don't want to give them a  
25 heads up on, hey, here is what's coming.

1           And Stacy has been involved in this for awhile as  
2 far as what we're taking about today. She'll give a brief  
3 overview on what her job is and why she's involved.

4           And then the engineering firm is Spicer Group. We  
5 have Larry Protasiewicz and Paul Forton. These are the two  
6 engineers that have been working with, number one, the Board  
7 of Determination for today; number two, they work with the  
8 golf course and make sure we don't flood out people in the  
9 future.

10           So Larry will give a brief update in the middle of  
11 the presentation on where the American Dunes is and how we're  
12 working and consolidating and collaborating. They've been a  
13 great partner in this whole thing.

14           And then we have Bill Cargo, your township manager.  
15 And then we have two of my staff, Chad Meints, and Sara  
16 Hirts. And they're both outside right now trying to figure  
17 out where Larry is.

18           ATTORNEY HISSONG: He's not coming.

19           WATER RESOURCES COMM. JOE BUSH: Okay, Larry will  
20 not make it.

21           ATTORNEY HISSONG: Right.

22           WATER RESOURCES COMM. JOE BUSH: For some odd  
23 reason.

24           So that's why we're here for the petition.

25           And then the reason we have these public hearings

1 is for you guys, the public, to give testimony. So if you  
2 can state your name and address when you go to the podium  
3 with your concerns or any questions.

4           Once I give these two gentlemen the oath, they run  
5 the meeting. So I don't have any say or jurisdiction at this  
6 point because right now the BOD is in their hands. They'll  
7 pick a chair, who runs it, they'll give you the allotted time  
8 to speak. And be sure to tell them either concerns,  
9 complaints, or questions, direct them to those folks once I  
10 give them the oath.

11           This isn't like I make a decision to move forward  
12 with anything. And today we don't determine a cost. Today  
13 we determine a necessity, and what the project looks like.  
14 That's today's focus. Primarily it's what's the necessity  
15 and do we move forward based on the necessity. Everything is  
16 about necessity.

17           There will be a cost analysis later, but that's not  
18 for today's meeting. So that's where that's at for the  
19 project.

20           But again, you'll get a good overview of where it's  
21 been and where it's going, and then these gentlemen are  
22 definitely here to help you with any questions. And if you  
23 have any questions, be sure to direct them -- I'm more than  
24 happy to answer them at any time. All right?

25           And again I appreciate everybody's time for coming.

1 Usually the road commission sits in, there is nobody here  
2 from the road commission, but --

3 MR. CHAD MEINTS: They couldn't make it. They  
4 called me and said they're in favor of it, but they couldn't  
5 make it.

6 WATER RESOURCES COMM. JOE BUSH: So the road  
7 commission did make contact.

8 MR. CHAD MEINTS: Yes.

9 WATER RESOURCES COMM. JOE BUSH: So they are in  
10 favor.

11 So I'll give the oath and let these gentlemen get  
12 on with the show as far as their public hearing. So thank  
13 you.

14 Please rise, gentlemen, raise your right hand.

15 Do you each solemnly swear that you will faithfully  
16 perform and discharge the duties imposed upon you as required  
17 by law as members of the Board of Determination appointed by  
18 the Ottawa County Water Resources Commissioner to determine  
19 the necessity for consolidation, maintenance and improvement  
20 of drains and the consolidation of drain district located in  
21 Grand Haven Charter Township, in said county, and to further  
22 determine whether the addition or the deletion of lands will  
23 accurately define the drainage district boundaries, and  
24 whether such revision is just and equitable?

25 Gentlemen, what do you say?

1 BOARD MEMBER KEN SOUTER: I will.

2 BOARD MEMBER RICH VANDER KLOK: I will.

3 WATER RESOURCES COMM. JOE BUSH: Thank you.

4 BOARD MEMBER KEN SOUTER: All right. I need a  
5 motion as far as chairperson.

6 BOARD MEMBER RICH VANDER KLOK: I would make the  
7 motion that Ken Souter be the chair.

8 BOARD MEMBER KEN SOUTER: I second it.

9 All in favor, say aye.

10 Aye.

11 BOARD MEMBER RICH VANDER KLOK: Aye.

12 BOARD CHAIRMAN KEN SOUTER: Okay. I'll make a  
13 motion that you serve as secretary.

14 BOARD MEMBER RICH VANDER KLOK: I will support  
15 that.

16 BOARD CHAIRMAN KEN SOUTER: All in favor, say aye.

17 BOARD MEMBER RICH VANDER KLOK: Aye.

18 BOARD CHAIRMAN KEN SOUTER: Aye.

19 And then also I'll make a motion that the public  
20 comment be limited to about three minutes per person. You  
21 should be able to summarize pretty much your ideas within  
22 that time. If you agree with the guy before you, and you  
23 want to say the same thing, that's fine, but otherwise you  
24 can just agree with them.

25 But we basically will limit the public comment to



1 three minutes.

2 BOARD SECRETARY RICH VANDER KLOK: I make that  
3 motion.

4 BOARD CHAIRMAN KEN SOUTER: I will support.  
5 All in favor, say aye.

6 Aye.

7 BOARD SECRETARY RICH VANDER KLOK: Aye.

8 BOARD CHAIRMAN KEN SOUTER: Okay. I think Stacy is  
9 going to start.

10 ATTORNEY HISSONG: Yep.

11 BOARD CHAIRMAN KEN SOUTER: And give us kind of an  
12 overview. There is a few things that's different in this  
13 particular drain meeting.

14 ATTORNEY HISSONG: That's true.

15 Good morning, my name is Stacy Hissong, legal  
16 counsel for the drain commissioner.

17 So what we have is an already established county  
18 drain, the Beechtree Drain. That means that proceedings  
19 happened under the Drain Code for the Water Recourses  
20 Commissioner's office, the Drain office to take jurisdiction  
21 of that specific drain infrastructure. That took place in  
22 1884. So the Beechtree Drain has been an established county  
23 drain since 1884.

24 And so not all drainage systems in the county are  
25 under the jurisdiction of the Drain office, or the Water

1 Resources office. It's only those that went through the  
2 proceedings to have that happened.

3 So the Beechtree Drain had that happen in '84. So  
4 he has jurisdiction to do maintenance on it up to a certain  
5 dollar amount, and not improvements, without a petition.

6 So if there is a need to do improvements or spend a  
7 significant amount on maintenance, then a petition is  
8 required.

9 So there was a petition to perform maintenance and  
10 improvements on the Beechtree Drain that was signed by the  
11 township earlier this month, that's the purpose of the  
12 meeting.

13 With each established county drain, there is also  
14 what we're going to call a drainage district or a watershed  
15 or special assessment district. I use those terms  
16 synonymously. So if you were noticed, you're most likely in  
17 the drainage district or the watershed for the Beechtree  
18 Drain. That means if storm water, a drop of rain lands on  
19 your property, or at least a portion of your property, and  
20 ultimately gets to that drain, you're in the watershed. And  
21 the watershed is the same as the drainage district, that's  
22 the term of art under the Drain Code, which is basically the  
23 same as the drainage district, basically a special assessment  
24 district.

25 So the property owners in that special assessment

1 district, drainage district, watershed help pay a portion of  
2 the costs for the drain project.

3           Entities that are in a drainage district, if  
4 they're state highways, MDOT is in to benefit the state  
5 highways; the county road commission and Ottawa county for  
6 benefit to county roads; the township for benefit to public  
7 health; and then the property owners makeup the entities that  
8 help pay for improvements to a drain that's established under  
9 the Drain Code.

10           This is a unique situation where we have this drain  
11 established in 1884, and then there is some tributary drains,  
12 like little drains in different developments that flow into  
13 the Beechtree Drain that have their own separate drainage  
14 districts too. So it's kind of like the Russian nesting  
15 dolls, and the engineer will go through that. It's a  
16 drainage district, within a drainage district.

17           In reviewing the Beechtree Drain and what's been  
18 proposed generally as improvements, it makes sense to  
19 consolidate those drains to be a part of the Beechtree Drain  
20 and not separately established.

21           So in addition to, is a project necessary, and  
22 we'll go into that, it's also should the Golfview Subdivision  
23 Drain, the Lincoln West Estates Drain and the Sanctuary  
24 Subdivision Drain all be -- those separately established  
25 drains should they now just be called the Beechtree Drain and

1 be part of this project as well.

2 The people in those drainage districts are also  
3 part of the Beechtree so we'd be taking on -- there wouldn't  
4 be a separate special assessment district just for them, they  
5 would be part of Beechtree Drain. It's complicated but from  
6 a paperwork standpoint it uncomplicates it.

7 And then the Beechtree Drain drainage district  
8 again had a, was made in 1884, and it is no longer accurate  
9 in terms of what properties send storm water to it. Perhaps  
10 it wasn't accurate because it wasn't drawn correctly given  
11 current technologies in 1884, so we're going to update the  
12 boundaries of that special assessment district as well.

13 So three decisions, should we consolidate all these  
14 drains into the Beechtree Drain; and that's a yes or no  
15 decision that the board will make and that's the first  
16 decision they'll make. And the engineer will talk about why  
17 that was recommended and why that was petitioned by the  
18 township.

19 Two, is maintenance and improvement of these drains  
20 necessary. So when we talk about that the Board is going to  
21 vote, yes, necessary; or no, not necessary.

22 They do not decide how much the cost is. They do  
23 not decide what the scope of that project is. They just  
24 decide that something, a project needs to be done. They  
25 don't decide what the project is.

1           That's up to the Drain Commissioner and Water  
2 Resources Commissioner in consultation with the engineers.

3           So as an example, they can not vote, yes, it's  
4 necessary, but only work right here and not here. That's not  
5 within their purview. They vote yes or no; and then exactly  
6 what takes place is done through the Water Resource's office  
7 in consultation with the engineers.

8           They also don't get to say how much this costs.  
9 They vote yes, it's necessary; but not, yes, it's necessary  
10 but only a thousand dollars. Again that's within the scope  
11 of the Water Resource's office to determine that scope. We  
12 really won't know those costs until bids are taken.

13           The other thing we won't know is exactly how much  
14 property owners are going to pay because we don't know the  
15 scope of the project yet.

16           As you mentioned there is a development, I know you  
17 all are aware of this taking place. And so after the scope  
18 of the project has been decided, and is ready for bid and we  
19 do receive bids, then the Water Resources Commissioner's  
20 office is going to work closely with the township and look at  
21 what's necessary for the development, how much the township  
22 is going to pay, and then determine what costs, if any, are  
23 going to be spread to the property owners outside of that  
24 development. We won't know that until we know exactly how  
25 we're going to handle the scope of the project yet.

1           So before we go into the engineer's presentation,  
2 does anyone have any questions about the process?

3           So what you heard -- yes, sir. Your name first.

4           MR. BOB CARLSON: My name is Bob Carlson. I live  
5 at 16918 Lincoln Street. My question is we're not talking  
6 about costs today, but I've heard cost, cost, cost, every  
7 since we started the discussion.

8           And so my question is, if these gentlemen determine  
9 the necessity of this going forward, how do you determine the  
10 necessity if you don't know the scope of the cost? Because  
11 to me, is it a thousand dollars, a hundred thousand dollars,  
12 a million dollars. And I think anything, when you're  
13 determining whether to go forward on something or not, cost  
14 is a huge factor. And I have a follow-up question to that.

15           ATTORNEY HISSONG: Yep. So as Joe mentioned I do  
16 this in over 40 counties, I don't want to say how old I am  
17 but I've done a few hundred of these and that is asked every  
18 single time, how can you make a decision about necessity when  
19 you don't know what the price tag is yet.

20           Well the Drain Code is set up that these gentlemen  
21 don't do a cost-benefit analysis, they just decide should  
22 something be done. And then the elected county official  
23 determines what can I do for a cost that I feel that can be  
24 affordable.

25           Why that isn't a vote of the property owners or why

1 it isn't taking place differently than that, that's been that  
2 way since statehood. They vote yes or no on necessity,  
3 without that information, because if it's a no vote, and I've  
4 seen plenty of no votes in these that I've seen, they don't  
5 want to spend the money on all this engineering if it's  
6 clearly not something that's needed.

7 If the Drain Commissioner determines that in his  
8 opinion that it's too expensive, he can scale down a project  
9 scope or he can ultimately decide to abandon the project.

10 But it is not a vote of the people and it's not  
11 something we look at the price tag because every person in a  
12 watershed is situated in a different situation. The person  
13 on top of the hill whose water is going down never thinks  
14 there is a problem, but they contribute to the problem.

15 And so they're always going to be, regardless if  
16 it's a dollar, I don't need it because I don't have a  
17 problem. That's why the Drain Code is setup the way it is.

18 Whether we like it or not, or we think it's fair,  
19 that's the reason why it's setup that way.

20 MR. BOB CARLSON: Well I guess you answered my  
21 follow-up question. Because if the gentlemen here say, yes,  
22 we're going to go forward, it's necessary, then we determine  
23 how much it's going to cost. Once they say, yes, it's  
24 necessary, what I just heard is property owners have no say  
25 as far as whether they think the cost is appropriate or not.

1 In other words, I'm -- I have got an assessment, I'm paying  
2 for something that I don't necessarily agree with or I think  
3 is cost prohibitive, I have no say in that is what you're  
4 saying.

5 ATTORNEY HISSONG: What I will say is you do have a  
6 say because you have the township manager sitting right  
7 behind you who is going to work closely with the drain -- the  
8 water resources office. And they're both -- your township  
9 board are elected officials, your Water Resources  
10 Commissioner is an elected official and he's going to want to  
11 make sure that happens.

12 Do you have a legal right to stop it? No. But  
13 they're going to listen very closer to the stakeholders to  
14 make sure that it's something that's affordable.

15 Is everybody going to be happy about paying a  
16 special assessment on top of the taxes you already pay? No.  
17 But again, that's the legal process that we go through.

18 MR. BOB CARLSON: Okay.

19 ATTORNEY HISSONG: So I don't want to say you don't  
20 have a say, but I will say that there is no vote by the  
21 people in the drainage district, and I kind of explained why.

22 The many contribute to the problems of a few and  
23 that's why the Drain Code is setup differently.

24 But those are great questions, and not the first  
25 time I've heard those.



1 MR. BOB CARLSON: I'm sure, can I ask one more  
2 question?

3 ATTORNEY HISSONG: Sure.

4 MR. BOB CARLSON: Do these gentlemen have a list of  
5 all the improvements that are going to be recommended if  
6 these --

7 ATTORNEY HISSONG: Do the gentlemen have a list of  
8 improvements? No. We don't have a list of all the  
9 improvements that are going to be recommended because we just  
10 have an assessment of the current condition of the drain. We  
11 know what the golf course has in mind, but that sounds like  
12 that changes and will change. So absolutely not.

13 What they hear is, this is the condition of the  
14 drain, these are the problems being experienced, this is the  
15 development we see coming. Should something be done or not.

16 They know -- they haven't seen any of this yet in  
17 terms of that. And so you're going to be seeing the  
18 information the same as them for the first time.

19 After, if there is necessity found, then the  
20 engineers will start putting together more preliminary  
21 design, and then final design information, working closely  
22 with the stakeholders which primarily is the township in  
23 putting something together.

24 So, good question. So the answer is no. I talk a  
25 lot because I am a lawyer, I can't help it. But the answer

1 is no.

2 Yes, sir?

3 MR. WILLIAM TAYLOR: My name is William Taylor. I  
4 live at 12191 168th Avenue.

5 Is the golf course the driving force behind this  
6 meeting?

7 ATTORNEY HISSONG: No. I'll let the engineers go  
8 through the presentation before I answer that. All I know is  
9 that I've heard that property owners in this area have been  
10 experiencing flooding problems for some time.

11 MR. WILLIAM TAYLOR: For some time being years and  
12 years?

13 ATTORNEY HISSONG: That's all I know.

14 MR. WILLIAM TAYLOR: I understand.

15 ATTORNEY HISSONG: And then we'd like to hear from  
16 you all, that's the purpose of you being here, is to give us  
17 your information that you have from living in the area as to  
18 whether you or your neighbors have experienced a problem or  
19 not. And that will assist the Board of Determination in  
20 making any decisions.

21 All right. With that, Mr. Chair, if I could hand  
22 it over to the engineer for their presentation.

23 BOARD CHAIRMAN KEN SOUTER: Unless Joe has some  
24 comments.

25 WATER RESOURCES COMM. JOE BUSH: Yeah. Just a few

1 things I want to hit on. I just want to reassure you that  
2 Bill Cargo and I have an extraordinarily great relationship,  
3 we work well together.

4           And if the costs -- I do a cost-benefit analysis on  
5 every single project, whether I'm doing drain maintenance,  
6 because technically I am only allowed to spend \$5,000 per  
7 mile per year per drain. Whether it's as simple as that or a  
8 project like this, if the cost outweighs the benefit, I'm  
9 going to downsize it because maybe we don't need the  
10 Cadillac.

11           This isn't about the engineering firm making the  
12 best profit or that we put it out for bid and we're going to  
13 let the most expensive contractor get it.

14           This is about -- I still work for the taxpayer.  
15 And I'm going to do the best job I can to make sure its  
16 feasible and it's affordable. And the township will make  
17 sure that we work together on that because we do it on every  
18 single project. We do it in all 17 townships.

19           This is -- this is why it's important to elect a  
20 great drain commissioner who understands, because you don't  
21 want to get somebody in here who just thinks it's a blank  
22 checkbook. That's not how I work. I do a cost analysis to  
23 make sure it is affordable.

24           If it's too costly, I just won't do it. Because  
25 I'm not going to break the people because it's not worth it.

1           So I just want to reassure you that this isn't,  
2 hey, Joe has a blank checkbook, he'll do what he wants. I am  
3 held accountable, and so is Bill and his Board.

4           So Grand Haven Township has been a great partner,  
5 so be sure to stay in tuned, stay involved with your local  
6 government. But I want to assure you that Bill and I will be  
7 working side by side to make sure we get the best project for  
8 the best bang for the buck.

9           Hopefully that helps a little bit.

10          MR. BOB CARLSON: Okay.

11          WATER RESOURCES COMM. JOE BUSH: And then to relate  
12 to the question here earlier about, well how often has it  
13 been flooding, from what I'm being told on Timber Dune and  
14 all these other areas, even the golf course had issues before  
15 it is what it is now, had flooded out a lot. There has been  
16 a lot of water problems in this area for many, many years.  
17 That's what people tell me.

18          So it's been brought up before, but now is the time  
19 to relook at it because the golf course is making a lot of  
20 improvements to help flooding situations out.

21          I don't want to steal the engineer's thunder so  
22 I'll let Larry and Paul talk about the golf course and we're  
23 working side by side with American Dunes. They've been a  
24 great partner.

25          Mr. Chair, I'm done.

1           BOARD CHAIRMAN KEN SOUTER:  Let's go to the  
2 engineer, he is going to inform us on everything.

3           ENGINEER PAUL FORTON:  Maybe not everything, but  
4 we'll see what we can do.

5           My name is Paul Forton, as was mentioned earlier, I  
6 work for Spicer Group.  And we're an engineering firm that  
7 serves drain commissioners all over the state.

8           And one of the things, few things, we've talked a  
9 lot about costs already, and there is one thing that you  
10 really need to understand.  I don't have a lot of information  
11 at this point in the process.

12           As Stacy mentioned, when we do an inspection of the  
13 drain for a meeting like this, it's really just a quick  
14 windshield tour.  I don't have survey data.  I haven't done  
15 any hydrology assessments of this.  So it's really just a  
16 quick sneak peek of what is out there so that we can relay  
17 that to the Board.

18           But what I really want to remind you, you folks  
19 live there everyday, presumably, you at least own property in  
20 the district.  And I had several hours to spend in your area  
21 taking pictures, and I have my own observations, but really  
22 for the Board's benefit during public comment later it's very  
23 important for you to say, are things okay or are things not.

24           That's exceptionally important to me as well if it  
25 is found necessary and we do proceed with a project, I can't

1 solve a problem I don't know about.

2 So if you do have a problem, make sure that you  
3 mention that during the public comment period.

4 So onto the presentation.

5 We're going to talk a little about location, where  
6 are we, where is this drain actually located that we're  
7 talking about. I'll give you a little bit of background  
8 information on the drain.

9 I will go through the photos that we took as a part  
10 of our inspection. We're going to talk about -- Stacy  
11 mentioned this idea of consolidation. We're going to look at  
12 a few maps and see what that might look like, and also talk  
13 about the drainage district boundary that she talked about as  
14 well updating it to our current standards.

15 At that point I'll turn it over to Larry and he can  
16 fill us in on where they stand with the golf course  
17 improvements. And then we will take any questions that the  
18 Board has, or if they'd like us to address questions from the  
19 public we can do that as well.

20 So where this is? We're actually very close, you  
21 go out the south door, across the parking lot, past the fire  
22 station and you are on the particular drain that we're  
23 working with here.

24 And the flow generally is in a northerly direction  
25 (indicating). So it starts down near Buchanan Street near

1 the gas station, proceeds up 31, crosses across Warner  
2 Street, and then goes north along 168th.

3 At that point it goes across 31 again, and that's  
4 where it comes in to the south of us here, before outletting  
5 into another county drain.

6 So as Stacy mentioned, this was originally  
7 established in 1884. This is a relatively old one. We don't  
8 see too many -- we see quite a few that were established in  
9 this time period, but this is one that's been around for  
10 quite a long time.

11 The system itself is a mixture of what we call open  
12 drain which is basically creeks, streams or open ditches, as  
13 well as storm sewer. So there are portions of this that are  
14 enclosed.

15 The watershed that it services is about 590 acres,  
16 so we're just under one square mile and it really serves a  
17 mixture of different land use types. Both residential,  
18 undeveloped areas, there is a golf course obviously in the  
19 mix. We have some industrial as well as some agricultural.

20 So it doesn't mean a lot to you folks but as a  
21 engineerd (sic) looking at this, there is quite a varied land  
22 use type in this particular district.

23 So getting into some of the photos that we've  
24 taken, this is a picture looking down in a manhole, one of  
25 the metal grates you drive over going down the road. Our

1 drain outlets into the Van Doorne Drain.

2           And so the drain that we're talking about today,  
3 the black pipe that comes in in the bottom, right-hand corner  
4 (indicating), that is the storm sewer that connects to the  
5 Van Doorne Drain. And if you look downstream of this, this  
6 is what the Van Doorne Drain looks like (indicating).

7           At the time of our inspection, there wasn't any  
8 flow; but you can see that there is a channel here. It's  
9 very clean. Having done this for a number of years I can  
10 tell that this has been maintained not too long ago. On the  
11 right you can see there is a lot less brush and very few  
12 trees which tells me that this was cleaned out not too long  
13 ago. So we have a very good outlet for this system which is  
14 excellent.

15           This then is looking across that manhole now along  
16 Ferris Street (indicating), so this is facing west, just to  
17 the south of us here. And so there is a storm sewer that is  
18 right underneath that curb line. And what I'm going to do  
19 with these photos is we're going to proceed kind of in an  
20 upstream direction from this point. So we're going to start  
21 at the downstream end and work our way upstream.

22           This particular picture here is across the road  
23 from the fire hall. This is where that storm sewer outlets  
24 into an open ditch. And you can see that there is some brush  
25 and some grass here along that. That can increase the



1 friction for that water to flow through the system. And so  
2 that's definitely something at least to take a look at.

3 In general it's not too much of an issue on this  
4 particular drain, but there are a few areas where we do have  
5 some excessive brush.

6 This is the first MDOT crossing coming underneath  
7 31 (indicating). It's a concrete pipe, so you can see that  
8 in the photo. I didn't put a picture in the slideshow  
9 looking up that pipe, but I did stick my head in there and  
10 take a peek. But it's in great condition, there doesn't seem  
11 to be any separated joints. It's straight.

12 And one thing of note, there is not a lot of  
13 sediment in this crossing which means there is not a lot of  
14 dirt in this pipe. And that is continuous throughout the  
15 entire system.

16 What that is is an indicator for me is the fact  
17 that that pipe sees a lot of flow. It keeps it clean. And  
18 so occasionally that can be an indicator that we might have  
19 an undersized pipe, which we'll talk about more later. But  
20 generally the MDOT crossing there is in great shape.

21 Once it crosses MDOT, it goes across a railroad  
22 bed, it also crosses 168th and now we're on the west side of  
23 168th (indicating). And here we're looking south. So the  
24 ditch turns to the south. And there were some recent  
25 improvements here looking through Google Earth and some of

1 the aerals you can see where the sidewalk was added, the  
2 walking path and such. And this is right in that area.

3 And the drain itself is between the sidewalk and  
4 the gravel road there on 168th Avenue.

5 This is a picture just upstream of the last photo  
6 showing an 18-inch dual wall H.D.P.E. pipe which is basically  
7 just a plastic pipe (indicating).

8 And one thing I would note here again, a very clean  
9 pipe. And so we see, I'm sure this crossing sees a fair  
10 amount of flow, no sediment in that. And an 18-inch pipe,  
11 generally speaking folks, is a fairly small pipe to handle  
12 the flow from one square mile of watershed.

13 UNKNOWN SPEAKER: They just put that in a couple  
14 weeks ago.

15 ENGINEER PAUL FORTON: They just put that in a  
16 couple weeks ago is the comment I heard here.

17 So obviously you have grass growth or weed growth  
18 over the top of that this summer. But the entire watershed  
19 upstream of that 31 crossing does drain through this culvert.

20 Working our way up -- or south on 168th, it does  
21 return back to an open ditch. Again you can see grassy  
22 vegetation and some cattails (indicating).

23 Once we get up to Watersedge Drive it does go back  
24 underground into a pipe, so it proceeds in a pipe underneath  
25 the drive (indicating).

1           And if you're familiar with the area there is a  
2 pond on the west side of the road there. This little foot  
3 bridge on the walking path serves as the outlet to that pond  
4 (indicating).

5           And, again, at the time of inspection there was no  
6 flow. So you got to remember the filter that I look at this  
7 with is dry. But I've heard that this particular pond, for  
8 example, has flooded before and holds a lot of water and  
9 stores that, and does cause problems for some of the  
10 residents.

11           So that's just hearsay, I'd like to hear it from  
12 you. If somebody happens to live here or has knowledge of  
13 this from going on walks, please verify that or confirm that.

14           But again, at the time of inspection it was at  
15 normal operating level and the creek itself was dry.

16           So proceeding south, we get to Lincoln Street. And  
17 there is a dual-walled pipe there. And it proceeds as storm  
18 sewer on the west side of Lincoln for -- well it goes to open  
19 ditch (indicating) before it goes into storm sewer  
20 (indicating) close to Timber Dunes Drive.

21           And you can see a manhole there in the yard  
22 (indicating). And so that manhole, the county drain is still  
23 proceeding down along 168th, on the west side.

24           Once it gets to Warner Street it turns and heads to  
25 the east (indicating) on the north side of Warner, and it is

1 an open ditch in this particular area. Until it goes back  
2 underground, it crosses Warner Street to the south side  
3 (indicating), and it's back into a plastic 12 inch, which you  
4 can see down in the lower corner here (indicating).

5 And then it's storm sewer all the way from there up  
6 to 31.

7 The manhole here in the foreground (indicating),  
8 this is where the county drain hits 31 right-of-way after  
9 going underneath the railroad. And now it starts heading  
10 south again and it's still in a pipe.

11 That pipe then opens back up to an open ditch  
12 (indicating). And you'll notice there is a lot of cattails  
13 in this photo and this is where any time there is cattails  
14 there is obviously water. So that water is not draining away  
15 perhaps as quickly as it could through that pipe. Or perhaps  
16 when the ditch was cleaned out it was over dug and created a  
17 little bit of a pond there for the cattails to accumulate in.

18 But in a perfect world this would be cleaned out  
19 and it would look like the Van Doorne Drain downstream, that  
20 was nice and clean.

21 Once the pipe, or the open ditch proceeds up 31 it  
22 crosses 31 back to the east side, and the gas station here on  
23 our left, and then you can see the blueberry field beyond  
24 that to the south, it is an open ditch through this system.  
25 So if you pull into that gas station and the business there,

1 those culverts, that is the upper end of this county drain.  
2 And it ends just past out here by the barn is the legal point  
3 of ending for this particular drain, if a survey were to  
4 describe that.

5           So a few comments as to the general overall  
6 condition. In general it's actually in fairly good  
7 condition, it really is. There is minimum erosion on the  
8 open channels so not a lot of eroded areas. There aren't a  
9 lot of blockages. In this day and age with emerald ash boar  
10 and ash trees causing issues, they're not that bad out here.

11           The culverts and the storm sewer, again there was  
12 not any sediment in those which is an indicator that flow  
13 does clean that out, which is a good thing; but it can also  
14 be an indication that we might have undersized culverts  
15 within the watershed.

16           Again, we did not witness any localized flooding  
17 while we were on site, but it is a cause for concern from  
18 what I've heard from different folks in the area.

19           So again, I would love to hear that piece of the  
20 puzzle today from you folks.

21           So I want to talk a little bit about consolidation.

22           We've moved from kind of the condition of the drain  
23 and now I want to talk a little bit about consolidation.

24           So there is the three subdivisions that were  
25 mentioned earlier, Lincoln West, Golfview and Sanctuary. And

1 when subdivisions are initially established, and storm sewer  
2 is installed, that developer pays for that installation. And  
3 then those are turned over to the drain office once those are  
4 established.

5           And so this whole idea of consolidation, we've got  
6 three that are basically, you know, parallel to Lincoln  
7 Street, within the existing watershed. And in a perfect  
8 world what we'd like to do is consolidate those so they can  
9 all be maintained as one system.

10           So the map that you see here (indicating), the red  
11 line is the historic district boundary line. And Stacy  
12 mentioned that it's the historic watershed line or assessment  
13 line, and there is lots of different names for that.

14           And you can see the three little groupings there  
15 for the subdivisions.

16           And what we'd like to do, or the reason that you  
17 would want to consolidate, well why would you do that? Well  
18 it's so much easier and efficient to manage this as one  
19 system. It saves money primarily on administration costs.  
20 If we have to send notices to four districts, that's a lot  
21 more expensive than if we simply had to send it to one. And  
22 if we have to send it for our parent drain here, then most  
23 likely many residents would receive two if they were in those  
24 sub-watersheds. So why am I getting two mailings? You're  
25 paying for postage twice and all these issues that we have in

1 order to follow the law and the Drain Code that costs money.

2 So again as far as maintenance of the system, it  
3 makes it a lot cleaner for Joe's staff to take care of it if  
4 it's all consolidated. And at the end it's going to save on  
5 maintenance dollars.

6 So that's a few items for, reasons for  
7 consolidation.

8 Now the drainage district boundary, obviously a  
9 boundary from 1884 is going to be a whole lot different than  
10 a boundary that we do today. Technology has changed a lot  
11 from being able to just ride a horse and take a look at a  
12 watershed versus some of the information that we can use that  
13 I'd like to show you here in a minute.

14 We've got the red historic boundary and you can see  
15 it's very rectangular, very blocky. Many times when they  
16 describe these boundaries they used aliquot parts where  
17 they're calling out sections of the township at a time.

18 And what we like to do today is we like to use  
19 elevations to identify a watershed. So if I'm going to size  
20 a culvert, for example, underneath U.S. 31, I need to know  
21 how much area drains to that, how much water that that ground  
22 contributes, and then we can adequately size the culvert.

23 And when we do that we use data such as this, this  
24 is just a print screen of what you would see on our computers  
25 as we draft these lines.

1           You can see that rectangular red line that shows up  
2 coming along at the right hand, right hand corners  
3 (indicating). And the colors that you see on this map are --  
4 that's elevation data, okay. We've colorized the surface of  
5 the earth based on elevation.

6           And right here (indicating) you can see it's kind  
7 of a light white color, I like to -- the analogy I like to  
8 use is this is basically like snow on the mountains if you're  
9 looking at the Rocky Mountains, so that's the highest  
10 elevation.

11           And then we have these contour lines and as we go  
12 through the color of the rainbow, it drops in elevation to  
13 the lower area here (indicating). This is at the very south  
14 end of the golf course where you can see fairways and  
15 different things in the elevation data. But you can see  
16 there is a very defined ridge line here (indicating).

17           So as we move forward and recommend a drainage  
18 district boundary to Joe's staff, and in this instance today  
19 for the Board to adopt, we have gone around the entire  
20 watershed looking at this elevation data, we've identified  
21 basically the continental divide and determined where the  
22 edge of the bathtub is.

23           And as Stacy mentioned earlier, if water lands on  
24 your yard or a portion of your property that's inside that  
25 line, that water can shed toward this drain and would then be



1 included in this boundary.

2 And so the other thing that we do when we verify  
3 these lines, we don't just sit in an office and ink it, we  
4 actually go out and drive the line as well. We need to make  
5 sure the road commission or railroads or farmers and  
6 landowners haven't installed culverts that might not show up  
7 with this data. So we were able to do that to get a very  
8 tight and clean line.

9 So this is an overview of the entire area. So  
10 we've got the historic boundary shown in red (indicating).  
11 You can see with the green line that now patches the LiDAR  
12 data, very segmented, turns quite a bit following those ridge  
13 lines all the way around (indicating) the district.

14 And so a final consolidated district boundary line,  
15 and I think Larry handed that map out here a few minutes ago,  
16 would look something like this (indicating).

17 At this time I'm going to turn it over to Larry and  
18 I'm going to pull up Google Earth.

19 Larry is going to give us an update on improvements  
20 being made to the golf course .

21 ENGINEER LARRY PROTASIEWICZ: All right. Earlier  
22 this year when there was some concerns in the area about  
23 flooding and how that would be affected with the golf course  
24 improvements, Joe asked me to get involved with the review of  
25 the site development for the golf course.

1           So I've been involved, and I have seen this in the  
2 spring time and in the early year when we had rainfall  
3 events, Paul, so I can attest to what's happening here.

4           But here is the golf course location (indicating).  
5 This is Timber Dunes Drive (indicating), and then 168th  
6 (indicating) Avenue here.

7           So a few things that came up I think at the  
8 township meetings, right, Joe, and with concerns with the  
9 development and the site plan for the improvements to the  
10 golf course, were that they are definitely -- there is  
11 landowners that are experiencing flooding problems.

12           There is -- on Timber Dunes Drive (indicating),  
13 there is an existing pond, an irrigation pond, and, Paul, I  
14 don't know if you can zoom in on this a little bit better.

15           ENGINEER PAUL FORTON: Let me try.

16           ENGINEER LARRY PROTASIEWICZ: Here is Timber Dunes  
17 Drive (indicating), and this is an existing irrigation pond  
18 (indicating) for the golf course.

19           There is four homes in this location that are  
20 continual to experience flooding. They've had water in their  
21 basements. And there was a storm sewer system -- not much of  
22 a storm sewer system, but there was some storm drains that  
23 were put in as part of the development of that. But they  
24 didn't really have an adequate outlet for their water.

25           Quite frankly, the water flows across (indicating),

1 and I don't know what hole number this is. At the golf  
2 course people like to talk in hole numbers, but I believe  
3 it's 12.

4 Anybody here from the golf course?

5 UNKNOWN SPEAKER: Twelve.

6 ENGINEER LARRY PROTASIEWICZ: Twelve? Okay, good.  
7 You can be my reference for the numbers.

8 So there is 12 here (indicating), and the water  
9 flows off from this street (indicating) onto the golf course.  
10 Apparently -- and this was very wet this spring, it holds  
11 water on the fairway here (indicating). You can actually see  
12 some drowned out spots in this location.

13 The water has to migrate in a northwesterly  
14 direction. But there is inadequate storm sewer system in the  
15 drive to get the water to the other side. And then when it  
16 does get to the other side, there is no adequate outlet for  
17 the golf course in itself.

18 So as part of the entire site development -- I need  
19 to go up a little bit further, Paul. Or if you have a Google  
20 Earth map.

21 ENGINEER PAUL FORTON: Yep.

22 ENGINEER LARRY PROTASIEWICZ: We've been working  
23 with Excel Engineering, Rob Lamar, is it? And -- to develop  
24 an overall master plan for this entire area that will also  
25 solve the flooding problems and make this a branch of the

1 Beechtree Drain.

2           So since a lot of the areas around the golf course  
3 drain onto the golf course, and we have to manage the water,  
4 we need to -- we need to put a branch up off the Beechtree at  
5 this location at this corner (indicating), and actually drain  
6 a lot of the areas that drain onto the golf course.

7           One of the subdivisions that we're looking at  
8 consolidating is the Sanctuary, which is right here  
9 (indicating). This Sanctuary Subdivision outlets onto the  
10 golf course.

11           As part of their improvements they are planning on  
12 building two ponds to replace this pond (indicating), which I  
13 think they're already built. But then those ponds needed an  
14 outlet to the county drain system which is over in this  
15 corner (indicating).

16           So what we've done was we've -- Rob from Excel  
17 Engineering has done computer modeling of the entire area,  
18 because a lot of these -- this is the subdivision, one of  
19 them to be consolidated, it drains onto the golf course  
20 (indicating).

21           The area along the side over here, 12, drains onto  
22 the golf course (indicating). This area in the southerly  
23 area, the Sandy dunes, it drains onto the golf course  
24 (indicating), which is 13 down there, or 14?

25           UNKNOWN SPEAKER: I don't know that end.

1 ENGINEER LARRY PROTASIEWICZ: Okay. I think it's  
2 13, because I think 12 comes to here and 13 goes to here  
3 (indicating).

4 UNKNOWN SPEAKER: Yeah.

5 ENGINEER LARRY PROTASIEWICZ: There is some severe  
6 flooding problems in this location and on the fairway and a  
7 few homes down in this location (indicating), that we've been  
8 working with Doug at the golf course to come up with a  
9 solution to that.

10 So the bottom line is in working with the  
11 architects from California, and Jack Nicholas's architects  
12 and with Rob, we've come up with a management system that  
13 will -- that will manage the water off of these homes  
14 (indicating), that will manage the water where these people  
15 are flooding in their basements (indicating), will manage the  
16 water off from this subdivision (indicating), and I think the  
17 district is somewhere through here (indicating).

18 Right, Paul?

19 ENGINEER PAUL FORTON: Yes.

20 ENGINEER LARRY PROTASIEWICZ: And then also manage  
21 the water in here (indicating).

22 Since that is not just golf course water, it is  
23 water coming from a lot of these homes and a lot of the  
24 subdivision areas, it all has to be managed and it needs to  
25 be a part of a county drain system.

1           So the intent would be that this would be a branch  
2 of the Beechtree Drain, and that is a part of what the  
3 petition was filed for is so that this is -- this will be  
4 public infrastructure that will be part of the golf course  
5 (indicating), but it will have a public outlet into the  
6 Beechtree Drain which will flow northerly (indicating) in  
7 that location.

8           So there is a couple of mods being -- replacing the  
9 outlet for this subdivision (indicating). There will be a  
10 proposed storm sewer system that will be built and come over  
11 to this corner and outlet into the Beechtree Drain  
12 (indicating).

13           There is also another pond being constructed in  
14 this location (indicating), which is tied into their current  
15 irrigation pond which is being expanded (indicating), which  
16 is then constructing another pond along 12 (indicating),  
17 which will take the water off from the back of these lots,  
18 and the front -- and the back of these lots (indicating),  
19 manage that water.

20           And then there is also a pond being constructed in  
21 this lower portion down Sandy Dunes (indicating). All of  
22 these ponds will be connected. They will store storm water.  
23 And in the wintertime they will be able to be lowered so that  
24 they can manage all of this water that's coming from these  
25 areas. And they will be connected.

1           This pond will outlet into the pond on 12  
2 (indicating), on 12, which will then -- a new storm sewer  
3 needs to be connected across Timber Dunes Drive (indicating)  
4 to connect the irrigation pond in this location (indicating),  
5 which will then connect to this pond (indicating), and will  
6 then connect to this pond (indicating), and then connect to  
7 this pond (indicating) and have an outlet structure here  
8 which will ultimately outlet into this location (indicating).

9           Rob has done a really nice job modeling all this so  
10 that we can assure that these homes will not flood in a  
11 hundred year storm event.

12           The ponds are -- will become part of the whole  
13 storm water management system, not only for the golf course  
14 but for all those individuals that are connected to it. And  
15 then that would be taken over as part of a county drain  
16 system and be able to be managed and maintained.

17           However, we really feel that the golf course is  
18 going to really manage these ponds, and the infrastructure.  
19 They already built, at their expense, they've already built  
20 the ponds and they've connected them with large enough pipes.  
21 We worked with Rob on sizing the pipes so that if this does  
22 turn into a county drain system, that they will all be  
23 properly sized, large diameter, I think an 18-inch pipe will  
24 be coming up into this pond (indicating), and another 18-inch  
25 pipe to this location (indicating), and will cross this with

1 another 18-inch pipe (indicating) and into the pond in this  
2 location (indicating).

3 So all of that needs to work as a system. Right  
4 now there is not adequate infrastructure in here (indicating)  
5 to manage this storm water for these people that are flooding  
6 (indicating), these people that are flooding (indicating),  
7 these people that are flooding (indicating) and then for the  
8 outlet of this subdivision (indicating).

9 So the intent will be that we'll build a branch  
10 that will become part of the public drainage system that will  
11 manage all the water from not only the golf course, but also  
12 the individual subdivisions.

13 The golf course likes that plan because they want  
14 the water, especially during the spring time and summer,  
15 because they'll use it for irrigation.

16 And then if we can manage -- the problem right now  
17 is when we get a rainfall event and we have frozen ground  
18 conditions in a storm, there is no place for this water to  
19 go, and it potentially backs up into these homes  
20 (indicating). It definitely backs up into these homes  
21 (indicating) because there is not a good outlet for that  
22 water.

23 So that's kind of what is happening there. We've  
24 been working very closely with them to try to stay ahead of  
25 their construction schedule. It's worked out very well. The



1 golf course manager has been very good to work with, and Rob  
2 has been doing a great job on keeping ahead of --  
3 understanding the whole system.

4 Paul, let's move downstream here.

5 ENGINEER PAUL FORTON: Okay.

6 ENGINEER LARRY PROTASIEWICZ: One of the concerns  
7 is in managing this water, we're very familiar that the  
8 Lincoln West Subdivision -- is anybody here from Lincoln  
9 West?

10 UNKNOWN SPEAKER: (Indicating).

11 ENGINEER LARRY PROTASIEWICZ: So you can probably  
12 give testimony on what's happening in Lincoln West so I won't  
13 go into it very much.

14 My understanding is Lincoln West (indicating), it  
15 outlets into the Beechtree Drain. And I have concerns,  
16 especially when I was out there earlier on, the elevations of  
17 these homes (indicating) versus the elevation of this storm  
18 water detention basin (indicating) versus the elevation of  
19 the pipe network that was installed along 168th (indicating),  
20 I have several concerns about having an adequate outlet for  
21 this subdivision (indicating), especially when we need to  
22 outlet this water from the -- from these ponds into this  
23 location along Beechtree Drain.

24 So we'll hear testimony in that respect. There  
25 probably will need to be some improvements upstream from

1 there.

2 As Paul said, this has been an 18-inch tile along  
3 168th. It's a huge district. It's really very inadequately  
4 sized for the watershed, for the water that's going there,  
5 especially when we have storm events.

6 There is no question in my mind that it's too high  
7 in elevation and it's inadequately sized along 168th Street  
8 to take the -- to properly drain the area that's contributing  
9 to it from the upstream.

10 MR. DAVID SHELTON: I'm David Shelton, I live at  
11 16876 Lincoln Street. We're part of this Golfview  
12 Subdivision.

13 ENGINEER LARRY PROTASIEWICZ: Okay.

14 MR. DAVID SHELTON: Which is basically five  
15 houses --

16 ENGINEER LARRY PROTASIEWICZ: Up here (indicating)?

17 MR. DAVID SHELTON: -- just north of the Retreat,  
18 directly north of their pond.

19 ENGINEER LARRY PROTASIEWICZ: Okay. You're right  
20 along the road (indicating).

21 MR. DAVID SHELTON: Right there. And we have an  
22 open county drain that's in between my house and the one to  
23 the west.

24 Since all these new drains are all going to drain  
25 to the north of the golf course and we're north of the golf

1 course, that chipping green that's been there for all these  
2 few years that they've developed this subdivision has flooded  
3 on occasions over the cart path, and into my backyard and  
4 into that county drain.

5 ENGINEER LARRY PROTASIEWICZ: Okay.

6 MR. DAVID SHELTON: I don't have a problem with  
7 that because the flow is natural, and it's always been  
8 carried away adequately.

9 ENGINEER LARRY PROTASIEWICZ: Right.

10 MR. DAVID SHELTON: I'm just concerned about  
11 whether or not with all these additional flows heading right  
12 to that corner, whether or not any of that has been taken  
13 into consideration as far as the angle, the size, or anything  
14 else.

15 Because none of these houses have -- we all have  
16 walkout lower levels with no sub crocks and no drain tiles.  
17 So if there ever was a flooding issue, there is no way to  
18 vent it away.

19 ENGINEER LARRY PROTASIEWICZ: Right. And we'll get  
20 into public testimony because I think they want to take back  
21 over.

22 But, yeah, we're very aware that there is not a  
23 good outlet infrastructure for any of the back of these lots  
24 (indicating).

25 And this -- the other thing is this is a

1 subdivision -- or there is also a pond in this location that  
2 outlets into the county drain. They're having problems with  
3 their pond, which we would need to look at as part of that.

4 I know Joe is familiar with some of the problems  
5 with that pond also.

6 So again, we're telling you how far we've gone to  
7 date. And this is the time to get public testimony and hear  
8 your comments and concerns, so as we move forward with the  
9 design, then with that we make sure we incorporate that.

10 But we do realize that this area does not have an  
11 outlet and it does need to be connected to the Beechtree.

12 MR. DAVID SHELTON: We do have an outlet right  
13 between me and -- it's an open drain, probably 12, 18 inches  
14 in diameter, and it runs directly right into the drain that  
15 runs parallel to Lincoln.

16 ENGINEER LARRY PROTASIEWICZ: Okay.

17 MR. DAVID SHELTON: And it works, I'd say  
18 moderately efficiently. But anymore than what's there  
19 already would definitely overtake it.

20 ENGINEER LARRY PROTASIEWICZ: Right. Right.

21 So that's kind of the overview of what we know  
22 about the whole system and what needs to be done to make it  
23 part of the system.

24 Yes?

25 BOARD CHAIRMAN KEN SOUTER: I do have one question.

1 ENGINEER LARRY PROTASIEWICZ: Yes.

2 BOARD CHAIRMAN KEN SOUTER: From what I remember of  
3 this area we're pretty flat. How much elevation difference  
4 do we have coming from, let's just say the outlet which is  
5 right here (indicating), to the upper end of the drain?

6 ENGINEER PAUL FORTON: We don't know yet exactly.  
7 We don't have it surveyed. So that's going back to one of  
8 the things I mentioned earlier.

9 I'm Paul Forton with Spicer.

10 One of the things I mentioned earlier, again we  
11 just did a windshield tour. I will say it did appear that  
12 water could flow. But much like in many areas in Ottawa  
13 County, extremely flat. Just generally speaking.

14 If you look at 31 and look down 31 or many of the  
15 roads here, it's extremely flat until you get to the edges of  
16 the watershed.

17 So -- but that would be something that we'd  
18 certainly look at. That will be our basis of design is where  
19 that connects to the Van Doorne, what's that elevation,  
20 because that's going to pretty much manage everything we do  
21 from there upstream.

22 BOARD CHAIRMAN KEN SOUTER: Because you're going to  
23 be really kind of hamstrung with the drainage system on that  
24 pipe that goes under 31.

25 ENGINEER PAUL FORTON: Yes.

1           BOARD CHAIRMAN KEN SOUTER:   Because that's where  
2 some real costs will enter in, and I don't think you've got a  
3 lot of fall from that north.

4           ENGINEER LARRY PROTASIEWICZ:   Yeah.   The next thing  
5 that we would do, if it's found necessary to move ahead,  
6 would be to get the survey information.   And if that pipe  
7 needs to be lowered along -- across the highway, we have a  
8 great working relationship with the Michigan Department of  
9 Transportation.   And they would -- they have been on, I would  
10 say 95 percent of the projects I've been working on, paying a  
11 hundred percent of that cost of that upsizing and lowering  
12 and/or lowering of that pipe.

13                       So that would definitely be one of our next phone  
14 calls would be -- first of all get the elevation information,  
15 and second of all, get them involved right off the get-go, if  
16 we do need to do that.

17                       I think you're probably right.   We will have to do  
18 something with that culvert.

19           BOARD MEMBER KEN SOUTER:   Okay.   I think we'll just  
20 transfer right to the public comment portion of this drain  
21 meeting.   And I'd like to have comments from anybody that  
22 wants to.

23                       Again, we'd like to keep it short and sweet, but  
24 we'll start -- well we can start with the gentleman that's  
25 raising his hand.   We'll start in that row and work back and

1 then we'll take care of the other side.

2 Sir, if you'd get up and give your name and address  
3 and where you live.

4 MR. BOB CARLSON: I don't know if I need this but  
5 I'm pretty loud.

6 Again, my name is Bob Carlson I live at 16918  
7 Lincoln Street. I'm part of the Golfview.

8 My house is probably the first house of Golfview  
9 that was constructed 17 years ago. You asked for comments  
10 about the drain along 168th Street. For 17 years I either  
11 run or bike year round on 168th Street from Ferris all the  
12 way up to Warner, and I have never seen flooding created from  
13 that drain.

14 I am very aware of the subdivision, my daughter  
15 lived in that subdivision when it was first built.

16 Yes, the pond gets a little bit high, but I never  
17 seen it where it created any flooding issues that I'm aware  
18 of. I know most of the neighbors in that neighborhood and I  
19 haven't heard it from them either.

20 So I'm a little surprised now that we're looking at  
21 that drain, the open or closed area along 168th Street and  
22 saying, well, that's been a flooding problem. Because again,  
23 this isn't a scientific comment obviously, I can't swear to  
24 that there has never been any flooding. But I'm up and down  
25 that road almost everyday and I've never seen that along

1 168th Street.

2           The other comment I have on that is that it sounds  
3 to me like the golf course now wants to run water off to that  
4 area where it could cause a flooding problem. It also -- I  
5 may be misunderstanding this, but all of the things that are  
6 happening on the golf course right now are now going to  
7 become part of the public drain area that will be assessed on  
8 property owners, and the costs for that no longer the burden  
9 of the golf course is a burden of the property owners.

10           Maybe I'm misunderstanding this, but I'm just  
11 listening to what's being said.

12           And for 17 years we have never had a problem out  
13 there. Yep, there has been some folks on Timber Dunes that  
14 had some flooding; but now all the sudden we have all this  
15 water coming off the golf course, the ponds are being built  
16 to their cost. Well, yeah, there is a benefit for those  
17 ponds for the golf course as well.

18           So I guess I'm concerned that all of the sudden the  
19 golf course comes in, which I have no interest in, even  
20 though I live on the golf course, I have no interest in the  
21 golf course. But now all of the sudden I'm going to be  
22 paying a price for development of that golf course, and  
23 Mr. Nicholas's program. And I'm upset about this, what I'm  
24 hearing right now.

25           Because we're going to change all the drains,



1 you're going to run the water somewhere behind my house  
2 because I'm right there at the entrance to Retreat, and there  
3 is -- you know, now there is a flooding issue that you're  
4 creating and now I'm going to pay for it.

5 So that's my comment.

6 BOARD CHAIRMAN KEN SOUTER: Okay. The lady in the  
7 striped shirt? Ma'am? Do you have any comments -- no, the  
8 lady in the striped shirt.

9 UNKNOWN SPEAKER: Me?

10 BOARD CHAIRMAN KEN SOUTER: Yes.

11 UNKNOWN SPEAKER: No.

12 BOARD CHAIRMAN KEN SOUTER: Okay. The lady in the  
13 black shirt, the next row here?

14 That gentleman right there?

15 ENGINEER PAUL FORTON: Do you have a question?

16 UNKNOWN SPEAKER: Just the one I made earlier.

17 BOARD CHAIRMAN KEN SOUTER: Okay. The young lady  
18 in the blue?

19 ENGINEER PAUL FORTON: And don't forget your name.

20 MS. GRACE ZERILLO: My name is Grace Zerillo. I  
21 live on 16965 Timber Dunes Drive. I live across from Bill  
22 and Jean Pullman who have had flooding problems for years and  
23 years. And they're on the south side.

24 I live on the hill. I have no problems. But I  
25 know several houses down has water all the time. There is a

1 couple of orphan drains there that we'd like to figure out  
2 where they go and if there is any help for them.

3 But I can tell you people on Timber Dunes have had  
4 drainage problems for years. And the golf course across the  
5 street from me on 12 has flooded completely for years.  
6 That's all I'd like to say.

7 BOARD CHAIRMAN KEN SOUTER: Thank you.

8 The lady in the stripes.

9 MS. PAT GRANT: I'm Pat Grant, and I live on 16896  
10 Timber Dunes on 12.

11 And I have water in my basement this year. This  
12 year was the least, maybe a quarter of an inch. But several  
13 years back I think the whole neighborhood, we had the  
14 horrible drain problem. It was an early thaw and water --  
15 the ground was not thawed enough and it was raining. We  
16 had -- I had my, my water was knee deep in my backyard and  
17 into 12, you know. It was just a horrible mess. All the  
18 neighbors in that area were flooding. So I'm worried about  
19 it too.

20 I know they're putting a pond back there, so I'm  
21 hoping that will help.

22 BOARD CHAIRMAN KEN SOUTER: The gentleman there?

23 MR. MARK REENDERS: Mark Reenders, 16616 Warner  
24 Street.

25 So I've lived on Warner Street for about 28 years.

1 And one time in 28 years, and that was probably 26 years ago,  
2 Warner Street actually was over -- water was over the road.

3 That was basically caused by the sand traps on  
4 168th blowing sand into the ditch. So we all got flooded  
5 upstream.

6 Right now I would think that the golf course should  
7 be fixing their own problem. They got it all tore up. Let's  
8 raise the elevation, have them do some detention ponds  
9 instead of retention ponds, hold their own water, use it for  
10 their irrigation because they're not going to put any black  
11 dirt back on the fairways. They're actually burying that  
12 black dirt which is taking up and raising up our groundwater.

13 So that should be stopped. And I do not want the  
14 water table to get lowered because I have a pond. And every  
15 time you guys dig the ditch, it seems like the groundwater  
16 table lowers.

17 So I'm totally opposed to all of this. I think the  
18 ditches actually work pretty good.

19 I think the golf course needs to fix the problem  
20 they developed, Timber Dunes and the surrounding areas and  
21 don't put it on us taxpayers.

22 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: Yes, I'm  
23 Bill Cargo I work with Grand Haven Charter Township.

24 Just to clarify, the improvements that are being  
25 done on the golf course, like any development, are being paid

1 for by the developer, is that correct?

2 WATER RESOURCES COMM. JOE BUSH: That's correct.

3 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: So what  
4 they're talking about is retaining a greater amount of water  
5 on the golf course, and then having more ponds to retain more  
6 water; and then they're going to release some of that to the  
7 Beechtree Drain which they're within?

8 WATER RESOURCES COMM. JOE BUSH: That's correct.

9 And Larry do you want to speak on that?

10 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: I also  
11 wanted to clarify, is there a requirement under the Drain  
12 Code for you to accept the water from these different homes,  
13 developments and everything within the district? Could you  
14 tell the Grand Haven Golf Course, no, you cannot release the  
15 water to the Beechtree Drain?

16 WATER RESOURCES COMM. JOE BUSH: That would be a  
17 legal question. I don't think I can do that by law.

18 ATTORNEY HISSONG: No. No. So what we have, as I  
19 understand it, the golf course is part of the Beechtree Drain  
20 district anyhow, and they're the biggest property owner in  
21 the drainage district.

22 So that's what I mentioned, if improvements are  
23 solely for the golf course, then guess what, then the benefit  
24 is going to be found solely for the golf course.

25 What I have heard and what my understanding is is

1 that you have some of these developments that developed and  
2 used the golf course as the outlet for their drainage. And  
3 the golf course that was originally there was never designed  
4 for all these new subdivisions that came in to serve as their  
5 outlet. But that's -- an amalgamation of these over the  
6 course of years has happened.

7 And some of these developments have had flooding  
8 issues, but we don't have a public outlet to deal with them.  
9 And the golf course truly isn't under the responsibility to  
10 solve the problems of the subdivisions that chose to outlet  
11 into the golf course.

12 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: One of  
13 the things I want to clarify, there is only one subdivision  
14 that's outletting to the golf course.

15 ATTORNEY HISSONG: And some of them don't have any  
16 outlet at all.

17 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: The  
18 others ones are outletting to the Beechtree Drain directly.  
19 There is three subdivisions we're talking about here.

20 So I want to clarify that.

21 ATTORNEY HISSONG: Thank you.

22 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: I happen  
23 to agree that the improvements to this -- I am glad they're  
24 doing the improvements because I think it will help the  
25 flooding issues along Timber Dunes Drive and so forth. But

1 the majority should go to the Drain Commissioner -- excuse  
2 me, to the golf course, if there is going to be any  
3 assessment.

4 The other thing I'd point out is that other than  
5 the Summerset back flow which we're concerned about, and the  
6 flooding along the golf course itself, I've not heard any  
7 problems with the sizing or with the ability of the storm --  
8 different storm events to be able to release the water back  
9 into another drain system.

10 So really when the Board did this petition they  
11 wanted to accomplish three things. One, we wanted to bring  
12 the newer residential development Sanctuary Place, the  
13 Retreat and Summerset into this district so they weren't  
14 separate subcategories underneath the Beechtree Drain. I  
15 hope we accomplish that today.

16 The other thing we wanted to do is we do know that  
17 the drain -- that the American Dunes is trying to work with  
18 the drain commissioner to deal with some of these more  
19 localized flooding problems, we hope that continues also.

20 But we also want to make sure that we don't create  
21 large costs, by accepting that water, there should be some  
22 retention on site, so we don't have a flash release of the  
23 storm water, but it drains down slowly over time. That's  
24 what we're hoping to accomplish with this.

25 Is there a need? Yes. The township acknowledges

1 the need. But we also want to make sure that the  
2 improvements at the golf course are paid for by the golf  
3 course, which is happening. And we want to make sure that  
4 the outflow from the golf course is controlled so that we  
5 don't have to go through significant increases in terms of  
6 infrastructure. Does that make sense?

7 WATER RESOURCES COMM. JOE BUSH: Makes sense to me.

8 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: Okay.

9 BOARD CHAIRMAN KEN SOUTER: Thank you, Bill.

10 The gentleman in the black shirt?

11 MR. GREG LEITO: Yes, my name is Greg Leito. I  
12 live 12839 Summerset, so I am just on the north side of  
13 Lincoln, that retention pond.

14 I agree with the comments that you made earlier  
15 because once they put that new bike trail in, and put in the  
16 18-inch pipe, I've noticed, you know, a significant problem  
17 with the pond being able to handle the rains and the floods.

18 In fact the level in that culvert, I guess you call  
19 it, where the new wood bridge is, the water is actually  
20 almost over the wood bridge.

21 So I did call and talk to someone, and they were  
22 very responsive, and we talked about it.

23 They made some comments about underneath the  
24 railroad tracks being an issue. And so now that you -- that  
25 you made the comment about the 18-inch, which they just put

1 in, maybe not being adequate, and then now with the addition  
2 of what's going to come with the golf course, I see problems  
3 now with the Summerset area. Because my backyard has -- you  
4 see that little dot, that little line up there is actually my  
5 backyard. It has an open, I'm not sure of the terminology,  
6 but drain that's connected. And the outlet of that pond is  
7 at the same level.

8           It's just -- right now for me, it's a mess. And I  
9 know there is other people in the neighborhood that have had  
10 issues with water. I know my sump pump has a real issue  
11 trying to keep up sometimes with what's going on when it  
12 rains.

13           So I'm hoping if you add this additional capacity  
14 on the south side of Lincoln, that you make arrangements on  
15 the north side to handle it.

16           So that's got to be -- I think it's got to be  
17 lowered. I've looked at the -- I think it's the GIS website  
18 and the topographical maps, and trying to figure out ways,  
19 and I've sent a few letters with PowerPoints to the drain  
20 commission. And just over the last several years trying to  
21 get an improvement made to it.

22           So I'm hoping now that we at least, with everything  
23 else that's going on with the golf course, make sure that  
24 that south side -- because even across the street here where  
25 you mentioned about the shrubs and stuff, I've complained



1 about it because there is large garbage bags in there and  
2 everything that I'm sure is restricting the flow because it's  
3 just not maintained.

4 And I think on the east side of 31 up to Ferris,  
5 that all needs to be lowered.

6 But that's just, after several years of dealing  
7 with this thing and talking with the drain commission, that I  
8 agree with the comments that you made and I hope they do it.

9 ENGINEER PAUL FORTON: If I may ask one clarifying  
10 question.

11 I guess the question I would have, Greg, for you is  
12 you mentioned that since the 18 has come in you've noticed  
13 maybe some issues with the water leaving the pond; what about  
14 before the 18 came in, was it an issue before?

15 MR. GREG LEITO: Yeah, it was an issue before. But  
16 we've had storms that were worse than what we've had this  
17 year, and it hasn't been as bad.

18 I mean it was up where that wood bridge is, that  
19 little -- it was up almost over the wood bridge. Sometimes  
20 I'm out there with a shovel trying to make sure things are  
21 flowing and clean.

22 ENGINEER PAUL FORTON: Thank you. Just curious.

23 BOARD CHAIRMAN KEN SOUTER: The last gentleman  
24 here?

25 MR. WILLIAM TAYLOR: William Taylor, 12191 --

1 MR. PAUL FORTON: Why don't you come up here to the  
2 podium?

3 MR. WILLIAM TAYLOR: I'm going to walk around for a  
4 minute, if that's okay. I want to ask a question.

5 Years ago, about ten maybe, there used to be a  
6 drain right here (indicating) that went from the maintenance  
7 garage into the drain (indicating), the drain office water  
8 that accumulated right here.

9 And I asked the question -- they closed it off by  
10 the way. I asked the question, why was that closed off.

11 And the drain commissioner told me that they can  
12 not allow any water from the golf course to enter the drain  
13 system because of the chemicals. Now it sounds like that is  
14 not a concern anymore.

15 Is that correct? Or doesn't anybody know?

16 BOARD CHAIRMAN KEN SOUTER: We have a drain  
17 commissioner, let's ask him.

18 WATER RESOURCES COMM. JOE BUSH: That was before my  
19 time.

20 MR. WILLIAM TAYLOR: It was. And I think there was  
21 a lady and she said it was closed off because of  
22 contamination. Now we're talking about pumping a lot more  
23 into the drain off the golf course.

24 WATER RESOURCES COMM. JOE BUSH: Larry, can you hit  
25 on a few key points about --

1 ENGINEER LARRY PROTASIEWICZ: Well first of all --

2 MR. WILLIAM TAYLOR: And I'm not done yet.

3 ENGINEER LARRY PROTASIEWICZ: I'll answer the  
4 question on that.

5 You know, we're going to work closely with the golf  
6 course. That system is not going to overflow into the drain  
7 unless we have a large storm event. They are going to manage  
8 all this water on the golf course.

9 MR. WILLIAM TAYLOR: But the possibility is there.

10 ENGINEER LARRY PROTASIEWICZ: They want all the  
11 water they can for irrigation purposes. They're reapplying  
12 it onto the golf course during the growing season. And then  
13 after everything winds down in the fall, the biggest problems  
14 are when they're not irrigating.

15 And these ponds are all tied together and they're  
16 going to all be managed. They all have outlet structures and  
17 they want all that water that they can get through the  
18 growing season.

19 It's during the spring runoff and the rainfall  
20 events way later on when we want to have that capacity there.  
21 So outletting to the drain, you know, downstream is not going  
22 to happen in a 3-inch, even a 3 or 4-inch rainfall in the  
23 middle of the summer. It will all be held on the golf  
24 course.

25 Only when we have these conditions in the fall and

1 winter and when we're not irrigating where we need to keep  
2 the water down so there is capacity for that water that's not  
3 in your basement, it's in those ponds at the golf course.

4 Right now they can't get those ponds lower in the  
5 wintertime because they're not irrigating out of them, there  
6 is no outlet.

7 So the drain downstream will only be taking water  
8 when it has capacity, and to lower those ponds, so that the  
9 capacity is there when we have these flooding events.

10 WATER RESOURCES COMM. JOE BUSH: Two things --

11 ENGINEER LARRY PROTASIEWICZ: Does that kind of  
12 answer -- I can't answer specifically all their chemicals and  
13 that.

14 MR. WILLIAM TAYLOR: Was the premise true back then  
15 that they could not allow water to flow into the drain off of  
16 the golf course --

17 ENGINEER LARRY PROTASIEWICZ: I don't know.

18 MR. WILLIAM TAYLOR: She was quite adamant.

19 ENGINEER LARRY PROTASIEWICZ: We have a lot of golf  
20 courses on county drains throughout the state.

21 MR. WILLIAM TAYLOR: Okay. I have one more thing  
22 I'd like to point out here.

23 I live on the south end of -- where is Warner  
24 Street?

25 Can you go up a little more.

1 ENGINEER PAUL FORTON: How about here?

2 MR. WILLIAM TAYLOR: Right in here on this southern  
3 edge (indicating). And I think the district has been  
4 extended to include this area right here. Is that true?

5 ENGINEER PAUL FORTON: Pieces of that.

6 THE REPORTER: Sir, can you speak louder?

7 BOARD CHAIRMAN KEN SOUTER: Can you talk a little  
8 louder?

9 MR. WILLIAM TAYLOR: Now you know where I'm at.  
10 They built a house --

11 ENGINEER PAUL FORTON: Right here, I'm guessing?

12 MR. WILLIAM TAYLOR: Yes. In the spring that is  
13 right up on top.

14 ENGINEER PAUL FORTON: Full?

15 MR. WILLIAM TAYLOR: The water table is that high.  
16 And I've lived there 30 some years, I live right to the north  
17 of that.

18 ENGINEER PAUL FORTON: Okay.

19 MR. WILLIAM TAYLOR: Right there (indicating). And  
20 the water table every spring is up, way high. And there is  
21 no way to get that water out of there.

22 I was hoping that some day they would improve on  
23 the drain that goes south, that's called the --

24 ENGINEER PAUL FORTON: Wenger Drain?

25 MR. WILLIAM TAYLOR: Yeah, the Wenger Drain. And

1 that's a very pathetic drain going down to Buchanan Street.  
2 It's all overgrown, and it's all filled in from years of  
3 people plowing snow in their driveways and pushing their  
4 debris into the ditches. I don't know if they're supposed to  
5 do that or not. But the drains have been -- the drain has  
6 been closed up.

7 And then they also covered up the drain going  
8 north, the drain that we're talking about, the 168th drain,  
9 they put pipe in the bottom of it.

10 But I do not know how the groundwater gets into the  
11 pipe. They have manhole covers on top for runoff from rain  
12 and snow melt. But the water table I don't think has access  
13 to any of that drain.

14 Does it, Larry?

15 ENGINEER LARRY PROTASIEWICZ: No.

16 ENGINEER PAUL FORTON: It's perforated. If the  
17 pipe is perforated.

18 MR. WILLIAM TAYLOR: I asked those people when they  
19 did that, is it a perforated pipe, and they said no.

20 ENGINEER PAUL FORTON: I don't know for sure on  
21 that one.

22 MR. WILLIAM TAYLOR: So how do you get water into  
23 the drain, if you block it off from getting into the drain?

24 ENGINEER LARRY PROTASIEWICZ: I'm not familiar with  
25 what you're talking about there.

1           But this water, yes, to answer your question  
2 (indicating), there is not a good adequate outlet for this  
3 water.

4           Right now the outlet is setting on the fairway and  
5 in these woods in this area (indicating), all the water  
6 migrates to the northwest in this location.

7           The idea of the golf course is going to build a  
8 pond here (indicating) and that will be their water  
9 management. They're going to pump that pond up into 12  
10 (indicating) because again they want to collect that water  
11 and use it for irrigation.

12           They're not going to put an irrigation pump here  
13 (indicating), they're going to pump it up into 12  
14 (indicating) which will then flow up into their irrigation  
15 pond. And then again in the fall they'll draw that down so  
16 there is capacity in here (indicating).

17           Right now, this wooded area has very high  
18 groundwater.

19           MR. WILLIAM TAYLOR: It does.

20           MR. LARRY PROTASIEWICZ: And we know --

21           MR. WILLIAM TAYLOR: It's very high in the spring.  
22 Very high in the spring.

23           ENGINEER LARRY PROTASIEWICZ: -- there is a  
24 problem. And without an outlet there is definitely problems  
25 back in there.

1 MR. WILLIAM TAYLOR: That's why I was always  
2 concerned about covering up that ditch in the first place,  
3 and not allowing groundwater to access that drain, you know,  
4 to get out of here.

5 ENGINEER LARRY PROTASIEWICZ: Let's make sure and  
6 take a look at that, Paul.

7 ENGINEER PAUL FORTON: Yes.

8 MR. WILLIAM TAYLOR: And during the summer months  
9 the blueberry farmers pretty much pull down the water table  
10 out there because they're irrigating probably everyday. And  
11 I appreciate that.

12 But in the spring when we get the snow melt and the  
13 spring rains, there is always water, ponding water out there.

14 Thank you.

15 BOARD CHAIRMAN KEN SOUTER: Thank you. Anybody  
16 else?

17 MR. GREG LEITO: I just have one more.

18 BOARD CHAIRMAN KEN SOUTER: Name again?

19 MR. GREG LEITO: Greg Leito, 12839 Summerset.

20 And it's maybe a question for Joe.

21 When people complain and call in with issues is  
22 there a log, a history or file for that?

23 WATER RESOURCES COMM. JOE BUSH: Absolutely.

24 MR. GREG LEITO: And I assume you guys have looked  
25 at that log and understand the historical problems?



1 ENGINEER PAUL FORTON: We have not done a detailed  
2 analysis on that log going back through time, no. No. Just  
3 from talking with Joe and Chris Machela in his office.

4 MR. GREG LEITO: Okay. Because you made that  
5 comment earlier that he had heard rumors that there was a  
6 problem here and a problem there, and I was just curious if  
7 there was a log there.

8 WATER RESOURCES COMM. JOE BUSH: We keep track.

9 MR. WILLIAM TAYLOR: Can I have one more minute?

10 BOARD CHAIRMAN KEN SOUTER: Name again?

11 MR. WILLIAM TAYLOR: William Taylor, 12191 168th  
12 Avenue.

13 When they did the bike path going south on 168  
14 between Timber Dunes and Buchanan Street, when they put in  
15 the water mains, the public water system, every place they  
16 put a fire hydrant they put an access path. And what they  
17 did is they put the culvert about that high (indicating)  
18 about that far down from the top of the earth. Of course the  
19 ditch was way down here (indicating). So all the water is  
20 coming down there, hits that, and it has no place to go. It  
21 was just a terrible job the way they did that .

22 And you can just drive down there or walk down  
23 there along the bike path and you can see how bad it really  
24 is.

25 BOARD CHAIRMAN KEN SOUTER: Okay. I'm going to ask

1 that the secretary read some of the letters or at least  
2 summarize the letters.

3 BOARD SECRETARY RICH VANDER KLOK: Sure. We do  
4 have some correspondence that came in, and I think I will --  
5 I'll read them so that all of you are aware of what these  
6 individuals have to say.

7 This is from Bill and Jeanine Holman, and they live  
8 at 16592 Timber Dunes Drive.

9 We will be unable to attend the meeting on Monday,  
10 August 26th, regarding the Beechtree Drain. Thanks for  
11 undertaking the study to correct the drainage problems in our  
12 area. We live on Timber Dunes Drive, have water in our  
13 basement every spring. We have a finished basement with  
14 carpet so you understand our concern. We have a point under  
15 the basement steps that we activate 24/7 every May and June.  
16 You can imagine what our Consumer Energy bill looks like.

17 And so she continues, anything that can be done to  
18 alleviate this problem is gratefully appreciated.

19 Then we also have correspondence from Pamela  
20 Springer-Johnson. Her address is 17015 Timber Dunes Drive.

21 Thank you for having a meeting concerning our drain  
22 issue on our road. I noticed some drains here have been  
23 neglected and don't work to their potential, if at all.

24 With all of our new changes around here, with the  
25 golf course and recent damage of wind storm, I'm concerned of

1 flooding around here. I have neighbors who have mentioned  
2 that they have water issues in their basements.

3 Then she says, knock on wood, we do not at this  
4 time and would like to keep it that way.

5 I'm hoping that your -- that you propose a better  
6 drain solution and have the current ones on our streets  
7 properly cleaned out, and have them perform to their full  
8 capacity.

9 And then we have correspondence from Kara Endsley,  
10 and her address is 16904 Timber Dunes.

11 I received a notice that there will be a meeting  
12 held on Monday, August 26th at 10 a.m. Unfortunately I won't  
13 be able to attend, so I am sending this e-mail instead of my  
14 presence.

15 My concern is regarding the drain that isn't  
16 working on my property. There is another across the street  
17 from the one in my yard that also isn't working. If these  
18 worked, the drainage issue that we sometimes have in our  
19 backyards would be alleviated. With the golf course  
20 renovation and the pond being added nearby, we are concerned  
21 that the drainage will get worse.

22 I urge the Board to consider fixing these drains to  
23 work -- to working order to alleviate drainage in our  
24 backyards.

25 And then a final one with several pictures added,

1 this is from Pete Bac, B-A-C. He lives at 16910 Timber Dunes  
2 Drive.

3 Dear Board of Determination, I live at 16910 Timber  
4 Dunes Drive, and I'm very concerned, and then in parentheses  
5 he says, along with my neighbors, with the drainage issue in  
6 our area. We constantly, throughout the year, have standing  
7 water or soft soil in our backyards and in the golf course  
8 itself. Winter and spring are obviously the worse, but it is  
9 a year long issue.

10 I believe some of the blame could be traced to an  
11 orphan drain that has failed between my home and my neighbor,  
12 and on the other -- and on the other side of Timber Dunes  
13 Drive where it's supposed to drain into one of the golf  
14 courses ponds. The other problem is that the golf course  
15 fairway is slightly higher than our property, which in turn  
16 is directing the water onto our property.

17 I'm hoping that you recognize that there is a  
18 drainage issue in this area along Timber Dunes Drive and that  
19 you can put a plan in place which will help the drainage and  
20 also alleviate the damage, inconvenience, and especially the  
21 stress that a lot of residents have to deal with.

22 Thank you for your consideration. And I've  
23 included some photos to give you an idea of what we have  
24 faced in the past and worry about every winter and spring  
25 season.

1           And that is the end of the correspondence that  
2 we've received.

3           BOARD CHAIRMAN KEN SOUTER: Thank you, Rich.

4           Is there any other new information? Otherwise I'm  
5 going to close the -- yes, sir?

6           MR. BOB CARLSON: If you don't mind, I'd like to  
7 ask one more question of the engineer here.

8           ENGINEER PAUL FORTON: Name and address?

9           MR. BOB CARLSON: Bob Carlson, 16918 Lincoln  
10 Street.

11           You had mentioned that when you're not irrigating,  
12 you would have to drain some water over to that drain on  
13 168th. That would be on the northeast corner, I believe, of  
14 the golf course by Golfview there.

15           The question I have is how would that -- how would  
16 that water be transferred from the golf course to 168th and  
17 Lincoln on that corner there? Would it be an underground  
18 drain or what would happen there?

19           ENGINEER LARRY PROTASIEWICZ: Yeah, we don't have a  
20 full solution yet, but what our plan would be is right now,  
21 for lack of a better solution, is to come right up this cart  
22 path and go into the drain behind where you're at  
23 (indicating).

24           MR. BOB CARLSON: That would be an open drain or --

25           ENGINEER LARRY PROTASIEWICZ: It would be a closed

1 drain.

2 MR. BOB CARLSON: And this is probably more of a  
3 comment. As you mentioned when you're not irrigating, that's  
4 probably when you'd have to do the runoff, and that's  
5 typically in the winter melt and the spring and spring time.

6 I just want to comment that, as I said, on 168th  
7 Street, I'm up and down that road everyday. And I don't want  
8 to contradict what you said where you have some high water  
9 from the pond there, but I haven't seen the flooding.

10 But when the flooding -- or when the high water  
11 level is there is in the spring time. The photos that you've  
12 taken shows it's pretty much dry because we're late summer  
13 now. But spring that's the highest level in that drainage.  
14 And you're also proposing that the golf course would be  
15 running water off at the same time.

16 ENGINEER LARRY PROTASIEWICZ: Well when I say the  
17 same time, there would be an outlet structure -- if you keep  
18 these ponds low all winter, we can get a very significant  
19 event and not discharge any water from the golf course and  
20 still not flood the residents.

21 MR. BOB CARLSON: Okay.

22 ENGINEER LARRY PROTASIEWICZ: Okay? So we've done  
23 all the modeling up to a hundred-year storm event.

24 So the key is, the key is in December, keep those  
25 ponds low so they have all this water holding capacity. So

1 that when we do get that rainfall runoff event in the spring,  
2 we don't have to discharge water.

3 MR. BOB CARLSON: Okay.

4 ENGINEER LARRY PROTASIEWICZ: We have enough area  
5 to collect and hold on in those ponds.

6 MR. BOB CARLSON: Okay. What you're saying is the  
7 pond should handle that, we shouldn't have a significant  
8 runoff --

9 ENGINEER LARRY PROTASIEWICZ: Yes.

10 MR. BOB CARLSON: -- because we've had -- I've seen  
11 in the last few years we've had significant rain storms and  
12 you're looking at worse case scenario, I assume.

13 ENGINEER LARRY PROTASIEWICZ: Right. And the  
14 problem with the people that are having the flooding problems  
15 is those ponds are high, they're sitting their full of water  
16 and then we get the rain fall event because there was no way  
17 for it to go.

18 MR. BOB CARLSON: Okay.

19 ENGINEER LARRY PROTASIEWICZ: So if those ponds are  
20 sitting there dry, then we get the snow melt and the rain  
21 fall, then they'll have a place to go.

22 MR. BOB CARLSON: Okay.

23 MR. WILLIAM TAYLOR: One more?

24 BOARD CHAIRMAN KEN SOUTER: Something new?

25 MR. WILLIAM TAYLOR: William Taylor, 12191 168th

1 Avenue.

2 Mr. Cargo said that the golf course covers that  
3 expense, is that true?

4 ENGINEER LARRY PROTASIEWICZ: They've covered  
5 everything to date, they connected the ponds.

6 MR. WILLIAM TAYLOR: No. Do they pay for that  
7 ditch that he just asked about?

8 ENGINEER LARRY PROTASIEWICZ: We haven't gone to --  
9 we don't know who all is going to pay for what at this point  
10 in time.

11 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: Any of  
12 the --

13 MR. WILLIAM TAYLOR: The comment was --  
14 (REPORTER'S NOTE: People speaking over each  
15 other.)

16 BOARD CHAIRMAN KEN SOUTER: Bill?

17 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: If  
18 they're talking about the outlet, the pipe going on their  
19 property to the outlet, that would be a cost of the golf  
20 course. That would not be a cost -- because that's a  
21 development cost onsite.

22 MR. WILLIAM TAYLOR: Okay.

23 GRAND HAVEN TOWNSHIP MANAGER BILL CARGO: And the  
24 township never pays for development costs on site. And so if  
25 that's an onsite drain that they need to discharge the water



1 in a controlled fashion, that should be their costs. The  
2 township does not pay for development.

3 BOARD SECRETARY RICH VANDER KLOK: I think she  
4 wanted to talk.

5 BOARD CHAIRMAN KEN SOUTER: Did you want to add  
6 something, Stacy?

7 ATTORNEY HISSONG: No.

8 BOARD CHAIRMAN KEN SOUTER: Okay. Then I'm going  
9 to close the public comment portion of the meeting.

10 And at this point we're going to have some  
11 discussion here.

12 Rich, as far as this consolidation of the drain --

13 BOARD SECRETARY RICH VANDER KLOK: Yeah, I would be  
14 in favor of the consolidation.

15 I think as it was pointed out earlier, it -- the  
16 affirmative points concerning consolidation certainly would  
17 be to manage it as a system, rather than separate. And I  
18 think also the point was made that there would be a money  
19 savings component here, administratively speaking. I believe  
20 that point was made.

21 And then just the maintenance of the system as  
22 well.

23 So I would make the motion, Mr. Chairman, that  
24 these districts be consolidated as presented.

25 BOARD CHAIRMAN KEN SOUTER: Thank you for that, and

1 I'll read the whole motion.

2 Make a motion that the proposed consolidation of  
3 the Beechtree Drain, Lincoln West Drain, Golfview Subdivision  
4 Drain and Sanctuary Subdivision Drain, to be known as the  
5 Beechwood Drain. And the consolidation of the Beechwood  
6 Drain District --

7 BOARD SECRETARY RICH VANDER KLOK: Beechtree.

8 BOARD CHAIRMAN KEN SOUTER: Beechtree -- I'm sorry.  
9 Beechtree Drain District -- Drainage District, Lincoln West  
10 Drain Drainage District, Golfview Subdivision Drain Drainage  
11 District, and the Sanctuary Subdivision Drain Drainage  
12 District, with the consolidation of drain district to be  
13 known as the Beechwood --

14 BOARD SECRETARY RICH VANDER KLOK: Beechtree.

15 BOARD CHAIRMAN KEN SOUTER: I'm sorry. I'm doing  
16 bad there, Beechtree Drain Drainage District is conducive to  
17 the public health.

18 BOARD SECRETARY RICH VANDER KLOK: Yes, that's what  
19 I'm --

20 BOARD CHAIRMAN KEN SOUTER: All in favor, say aye.  
21 Aye.

22 BOARD SECRETARY RICH VANDER KLOK: Aye.

23 BOARD CHAIRMAN KEN SOUTER: Okay. Next is the  
24 necessity.

25 I'm going to go out on a limb here and you can

1 correct me if I'm wrong. But I see that there is drainage  
2 problems within the subdivisions, and especially the  
3 subdivision that comes down through Timber Dunes. A lot of  
4 our problems are in there, they're flooding out.

5 BOARD SECRETARY RICH VANDER KLOK: Yes.

6 BOARD CHAIRMAN KEN SOUTER: I in fact have gone  
7 through there during that period several times and there is  
8 water standing.

9 When you have water standing in a subdivision, you  
10 have a problem.

11 BOARD SECRETARY RICH VANDER KLOK: Um-hum.

12 BOARD CHAIRMAN KEN SOUTER: Complicated on this  
13 whole thing is this whole golf course reconstruction. And  
14 what I don't want to do is have the people in the area pay  
15 for their construction.

16 So that makes -- gives me a little bit of a problem  
17 in my mind. If that can be -- I think people need to have  
18 some help here. And I think the drainage district needs  
19 to -- the county drain commissioner needs to do something to  
20 alleviate that water.

21 I just don't want it to be golf course benefit,  
22 they're doing this for money. And I don't want that benefit  
23 to happen.

24 So I'm in favor -- I am in favor of the drain  
25 commissioner taking these drains and getting them working.

1           And I would imagine that he will look at the -- and  
2 the township, will duly look at what the costs should be for  
3 the golf course in lieu of the people that live in the area.

4           So I am in favor of a decision because it is a  
5 necessity. And I guess it's your turn.

6           BOARD SECRETARY RICH VANDER KLOK: Okay. Well  
7 first of all I'll support that. I do think the proposed  
8 maintenance and improvement of the Beechtree Drain as  
9 consolidated is necessary and conducive to the public health,  
10 convenience and welfare.

11           I hear your concern relative to the golf course,  
12 but having heard comments from Grand Haven Township Manager,  
13 and also the fact that the taxpayer money -- taxpayers are  
14 not going to pay for development on a golf course. That's  
15 private. And if that would happen, I'd have pause myself,  
16 because I would see that as very unfair.

17           But that being said, I do think that there is, as  
18 far as the Water Resources Commission for Ottawa County needs  
19 to be in charge of maintaining and improvement of the  
20 Beechtree Drain as consolidated.

21           So I would agree.

22           BOARD CHAIRMAN KEN SOUTER: Okay. So the decision  
23 of necessity is necessary.

24           And then lastly but not leastly is the decision for  
25 the --

1 ATTORNEY HISSONG: Hold on, fellows.

2 BOARD CHAIRMAN KEN SOUTER: Yes?

3 ATTORNEY HISSONG: That was deliberation, but we  
4 need a formal motion.

5 BOARD CHAIRMAN KEN SOUTER: Okay. I'm too  
6 informal.

7 I will make that a motion.

8 BOARD SECRETARY RICH VANDER KLOK: Yes, I already  
9 assumed you was making the motion.

10 BOARD CHAIRMAN KEN SOUTER: Okay. And do we  
11 have --

12 BOARD SECRETARY RICH VANDER KLOK: And I'll support  
13 that motion, as I said.

14 BOARD CHAIRMAN KEN SOUTER: Okay. Made and  
15 supported.

16 All in favor, say aye.

17 Aye.

18 BOARD SECRETARY RICH VANDER KLOK: Aye.

19 ATTORNEY HISSONG: Thank you.

20 BOARD CHAIRMAN KEN SOUTER: Lawyers.

21 ATTORNEY HISSONG: I know.

22 BOARD CHAIRMAN KEN SOUTER: Okay. Then the  
23 decision on the revision of the drainage boundary. I think  
24 that, my opinion on that, that's pretty simple.

25 Whatever drains into this drainage district should

1 be part of the drain district. Whatever is outside -- and  
2 I'm sure some of these areas, we don't have quite a  
3 definition of, they would be according to topo, and that's  
4 the way you should do a drainage district.

5 BOARD SECRETARY RICH VANDER KLOK: Um-hum.

6 BOARD CHAIRMAN KEN SOUTER: So I will make that a  
7 motion to revise the drainage boundary as necessary.

8 BOARD SECRETARY RICH VANDER KLOK: Okay, I -- if I  
9 could just make a comment about that.

10 I will -- I'll support that, but we probably, into  
11 the record we probably should read the motion, that number  
12 three motion.

13 BOARD CHAIRMAN KEN SOUTER: Okay.

14 BOARD SECRETARY RICH VANDER KLOK: And I can read  
15 it if you want me to.

16 BOARD CHAIRMAN KEN SOUTER: You're the secretary,  
17 you read it. I didn't do a good job on the other one.

18 BOARD SECRETARY RICH VANDER KLOK: That Ken Souter  
19 made a motion that the addition and/or deletion of lands as  
20 recommended by a licensed engineering or surveyor will more  
21 accurately define the boundaries of the land befitting the  
22 Beechtree Drain drain as consolidated, and that such  
23 additions and/or deletions of land is just and equitable.

24 And I would -- I already -- I second that.

25 BOARD CHAIRMAN KEN SOUTER: Okay. Moved and

1 seconded.

2 All in favor, say aye.

3 Aye.

4 BOARD SECRETARY RICH VANDER KLOK: Aye.

5 BOARD CHAIRMAN KEN SOUTER: Thank you all for  
6 coming. And we've got to trust our government here to make  
7 sure that what is done on this drain is done equitably with  
8 the people and the golf course.

9 Up to you now.

10 WATER RESOURCES COMM. JOE BUSH: Thanks.

11 BOARD CHAIRMAN KEN SOUTER: We are adjourned.

12 (Board of Determination adjourned at 11:45 a.m.)

13

14

15

16

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

CERTIFICATION OF COURT REPORTER AND NOTARY PUBLIC

\_\_\_\_\_

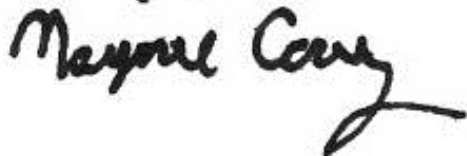
STATE OF MICHIGAN )

) SS

COUNTY OF MUSKEGON )

I certify that this transcript, consisting of 80 pages, is a complete, true and correct record of the Board of Determination - Beechtree Drain, held on August 26, 2019.

DATE: September 6, 2019



\_\_\_\_\_  
MARJORIE A. COVEY, CSR-2616  
141 East Michigan Avenue, Suite 206  
Kalamazoo, MI 49007  
1.800.878.8750

Notary Public Expires: October 14, 2021, Muskegon County, Michigan/Acting in the State of Michigan.



<hr/> <p style="text-align: center;"><b>\$</b></p> <hr/> <p><b>\$5,000</b> 19:6</p> <hr/> <p style="text-align: center;"><b>1</b></p> <hr/> <p><b>10</b> 67:12</p> <p><b>10:00</b> 2:2</p> <p><b>11:45</b> 79:12</p> <p><b>12</b> 28:3 35:3,8 36:21 37:2 38:16 39:1,2 44:13 50:5,10, 17 63:9,13</p> <p><b>12191</b> 18:4 57:25 65:11 71:25</p> <p><b>12839</b> 55:12 64:19</p> <p><b>13</b> 36:24 37:2</p> <p><b>14</b> 36:24</p> <p><b>16592</b> 66:8</p> <p><b>16616</b> 50:23</p> <p><b>168</b> 65:13</p> <p><b>16876</b> 42:11</p> <p><b>16896</b> 50:9</p> <p><b>168th</b> 18:4 23:2 25:22,23 26:4,20 27:23 34:5 41:19 42:3,7 47:10, 11,21 48:1 51:4 62:8 65:11 69:13, 16 70:6 71:25</p> <p><b>16904</b> 67:10</p> <p><b>16910</b> 68:1,3</p> <p><b>16918</b> 14:5 47:6 69:9</p> <p><b>16965</b> 49:21</p> <p><b>17</b> 19:18 47:9, 10 48:12</p> <p><b>17015</b> 66:20</p>	<p><b>18</b> 44:13 57:12,14</p> <p><b>18-inch</b> 26:6, 10 39:23,24 40:1 42:2 55:16,25</p> <p><b>1884</b> 9:22,23 11:11 12:8,11 23:7 31:9</p> <hr/> <p style="text-align: center;"><b>2</b></p> <hr/> <p><b>2012</b> 2:11</p> <p><b>2019</b> 2:2</p> <p><b>24/7</b> 66:15</p> <p><b>26</b> 2:2 51:1</p> <p><b>26th</b> 66:10 67:12</p> <p><b>28</b> 50:25 51:1</p> <hr/> <p style="text-align: center;"><b>3</b></p> <hr/> <p><b>3</b> 59:22</p> <p><b>3-inch</b> 59:22</p> <p><b>30</b> 61:16</p> <p><b>31</b> 23:1,3 25:7 26:19 28:6,8, 21,22 31:20 45:14,24 57:4</p> <hr/> <p style="text-align: center;"><b>4</b></p> <hr/> <p><b>4-inch</b> 59:22</p> <p><b>40</b> 3:23 4:19 14:16</p> <hr/> <p style="text-align: center;"><b>5</b></p> <hr/> <p><b>590</b> 23:15</p> <hr/> <p style="text-align: center;"><b>8</b></p> <hr/> <p><b>84</b> 10:3</p>	<hr/> <p style="text-align: center;"><b>9</b></p> <hr/> <p><b>95</b> 46:10</p> <hr/> <p style="text-align: center;"><b>A</b></p> <hr/> <p><b>a.m.</b> 2:2 67:12 79:12</p> <p><b>abandon</b> 15:9</p> <p><b>ability</b> 54:7</p> <p><b>absolutely</b> 17:12 64:23</p> <p><b>accept</b> 52:12</p> <p><b>accepting</b> 54:21</p> <p><b>access</b> 62:12 64:3 65:16</p> <p><b>accomplish</b> 2:18 54:11,15, 24</p> <p><b>accountable</b> 20:3</p> <p><b>accumulate</b> 28:17</p> <p><b>accumulated</b> 58:8</p> <p><b>accurate</b> 12:8,10</p> <p><b>accurately</b> 7:23 78:21</p> <p><b>acknowledge</b> <b>s</b> 54:25</p> <p><b>acres</b> 23:15</p> <p><b>activate</b> 66:15</p> <p><b>adamant</b> 60:18</p> <p><b>add</b> 56:13 73:5</p> <p><b>added</b> 26:1 67:20,25</p> <p><b>addition</b> 7:22 11:21 56:1 78:19</p>	<p><b>additional</b> 43:11 56:13</p> <p><b>additions</b> 78:23</p> <p><b>address</b> 6:2 22:18 47:2 66:20 67:10 69:8</p> <p><b>adequate</b> 34:24 35:16 40:4 41:20 56:1 63:2</p> <p><b>adequately</b> 31:22 43:8</p> <p><b>adjourned</b> 79:11,12</p> <p><b>administratio</b> <b>n</b> 30:19</p> <p><b>administrativ</b> <b>ely</b> 73:19</p> <p><b>adopt</b> 32:19</p> <p><b>aerials</b> 26:1</p> <p><b>affected</b> 33:23</p> <p><b>affirmative</b> 73:16</p> <p><b>affordable</b> 14:24 16:14 19:16,23</p> <p><b>age</b> 29:9</p> <p><b>agree</b> 8:22,24 16:2 53:23 55:14 57:8 76:21</p> <p><b>agricultural</b> 23:19</p> <p><b>ahead</b> 3:3,8 40:24 41:2 46:5</p> <p><b>aliquot</b> 31:16</p> <p><b>alleviate</b> 66:18 67:23 68:20 75:20</p> <p><b>alleviated</b> 67:19</p>	<p><b>allotted</b> 6:7</p> <p><b>allowable</b> 2:5</p> <p><b>allowed</b> 19:6</p> <p><b>allowing</b> 64:3</p> <p><b>amalgamatio</b> <b>n</b> 53:5</p> <p><b>American</b> 5:11 20:23 54:17</p> <p><b>amount</b> 10:5, 7 26:10 52:4</p> <p><b>analogy</b> 32:7</p> <p><b>analysis</b> 6:17 14:21 19:4,22 65:2</p> <p><b>and/or</b> 46:12 78:19,23</p> <p><b>angle</b> 3:19 43:13</p> <p><b>anymore</b> 44:18 58:14</p> <p><b>Apparently</b> 35:10</p> <p><b>appointed</b> 7:17</p> <p><b>appreciated</b> 66:18</p> <p><b>architects</b> 37:11</p> <p><b>area</b> 18:9,17 20:16 21:20 26:2 27:1 28:1 29:18 31:21 32:13 33:9,22 35:24 36:17, 21,22,23 42:8 44:10 45:3 47:21 48:4,7 50:18 56:3 61:4 63:5,17 66:12 68:6,18 71:4 75:14 76:3</p> <p><b>areas</b> 20:14 23:18 25:4 29:8 36:2,6 37:24 38:25</p>
---	---	--	--	---

45:12 51:20 78:2	18 79:2,3,4	<b>bathtub</b> 32:22	20:2	<b>BOD</b> 2:25 6:6
<b>arrangements</b> 56:14	<b>B</b>	<b>bed</b> 25:22	<b>block</b> 62:23	<b>bottom</b> 24:3 37:10 62:9
<b>art</b> 10:22	<b>B-A-C</b> 68:1	<b>Beechtree</b> 2:15 9:18,22 10:3,10,17 11:13,17,19, 25 12:3,5,7,14 36:1,4 38:2,6, 11 41:15,23 44:11 52:7,15, 19 53:18 54:14 66:10 74:3,7,8,9,14, 16 76:8,20 78:22	<b>blockages</b> 29:9	<b>boundaries</b> 7:23 12:12 31:16 78:21
<b>ash</b> 29:9,10	<b>Bac</b> 68:1	<b>Beechwood</b> 74:5,13	<b>blocky</b> 31:15	<b>boundary</b> 22:13 30:11 31:8,9,10,14 32:18 33:1,10, 14 77:23 78:7
<b>assessed</b> 48:7	<b>back</b> 2:11 4:16 26:21,23 28:1,3,11,22 38:17,18 43:20,23 45:7 46:25 50:13, 20 51:11 54:5, 8 60:14 63:25 65:2	<b>benefitting</b> 78:21	<b>blowing</b> 51:4	<b>branch</b> 35:25 36:4 38:1 40:9
<b>assessment</b> 10:15,23,25 12:4,12 16:1, 16 17:10 30:12 54:3	<b>background</b> 22:7	<b>benefit</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>blue</b> 49:18	<b>break</b> 19:25
<b>assessments</b> 21:15	<b>backs</b> 40:19, 20	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>blueberry</b> 28:23 64:9	<b>bridge</b> 27:3 55:19,20 57:18,19
<b>assist</b> 18:19	<b>backyard</b> 43:3 50:16 56:3,5	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>boar</b> 29:9	<b>bring</b> 54:11
<b>assume</b> 64:24 71:12	<b>backyards</b> 67:19,24 68:7	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board</b> 2:6 3:1, 2,11 4:12,22, 23 5:6 7:17 8:1,2,4,6,8,11, 12,14,16,17, 18 9:2,4,7,8, 11 12:15,20 16:9 18:19,23 20:3 21:1,17 22:18 32:19 44:25 45:2,22 46:1,19 49:6, 10,12,17 50:7, 22 54:10 55:9 57:23 58:16 61:7 64:15,18 65:10,25 66:3 67:22 68:3 69:3 71:24 72:16 73:3,5, 8,13,25 74:7, 8,14,15,18,20, 22,23 75:5,6, 11,12 76:6,22 77:2,5,8,10, 12,14,18,20, 22 78:5,6,8, 13,14,16,18, 25 79:4,5,11, 12	<b>brought</b> 20:18
<b>assured</b> 20:6 39:10	<b>bad</b> 29:10 57:17 65:23 74:16	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>brush</b> 24:11, 24 25:5
<b>attest</b> 34:3	<b>bags</b> 57:1	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>Buchanan</b> 22:25 62:1 65:14
<b>ATTORNEY</b> 2:4 5:18,21 9:10,14 14:15 16:5,19 17:3,7 18:7,13,15 52:18 53:15, 21 73:7 77:1, 3,19,21	<b>bang</b> 20:8	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>buck</b> 20:8
<b>August</b> 2:2 66:10 67:12	<b>barn</b> 29:2	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>build</b> 40:9 63:7
<b>Avenue</b> 18:4 26:4 34:6 65:12 72:1	<b>based</b> 6:15 32:5	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>building</b> 36:12
<b>aware</b> 13:17 43:22 47:14, 17 66:5	<b>basement</b> 50:11 60:3 66:13,15	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>built</b> 36:13 38:10 39:19 47:15 48:15 61:10
<b>awhile</b> 5:1	<b>basements</b> 34:21 37:15 67:2	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>burden</b> 48:8,9
<b>aye</b> 8:9,10,11, 16,17,18 9:5, 6,7 74:20,21, 22 77:16,17,	<b>basically</b> 8:25 10:22,23 23:12 26:6 30:6 32:8,21 42:14 51:3	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>board's</b> 21:22	<b>burying</b> 51:11
	<b>basin</b> 41:18	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>Bob</b> 14:4 15:20 16:18 17:1,4 20:10 47:4,6 69:6,9, 24 70:2,21 71:3,6,10,18, 22	<b>Bush</b> 2:7,9,23 5:19,22 7:6,9 8:3 18:25 20:11 52:2,8, 16 55:7 58:18, 24 60:10 64:23 65:8 79:10
	<b>basis</b> 45:18	<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>blame</b> 68:10	<b>business</b> 28:25
		<b>beneficial</b> 11:4,6 19:8 21:22 48:16 52:23 75:21,22	<b>blank</b> 19:21	

<b>C</b>	18:21 20:25	<b>cleaned</b> 24:12 28:16, 18 67:7	55:14,23 57:8 76:12	<b>concrete</b> 25:7
<b>Cadillac</b> 19:10	<b>Chairman</b> 8:12,16,18 9:4,8,11 18:23 21:1 44:25	<b>cleaner</b> 31:3	<b>commission</b> 3:13,23,24 7:1,2,7 11:5 33:5 56:20 57:7 76:18	<b>condition</b> 17:10,13 25:10 29:6,7, 22
<b>California</b> 37:11	45:2,22 46:1 49:6,10,12,17 50:7,22 55:9 57:23 58:16 61:7 64:15,18 65:10,25 69:3 71:24 72:16 73:5,8,23,25 74:8,15,20,23 75:6,12 76:22 77:2,5,10,14, 20,22 78:6,13, 16,25 79:5,11	<b>close</b> 22:20 27:20 69:5 73:9	<b>commissione r</b> 2:10,12,13 4:14 7:18 9:16 13:1,2 15:7 16:10 19:20 54:1,18 58:11, 17 75:19,25	<b>conditions</b> 40:18 59:25
<b>call</b> 10:14 23:11 55:18, 21 64:21	<b>chairperson</b> 8:5	<b>closed</b> 47:21 58:9,10,21 62:6 69:25	<b>Commission er's</b> 9:20 13:19	<b>conductive</b> 74:16 76:9
<b>called</b> 7:4 11:25 61:23	<b>change</b> 17:12 48:25	<b>closely</b> 13:20 16:7 17:21 40:24 59:5	<b>commissio ne rs</b> 4:19 21:7	<b>confirm</b> 27:13
<b>calling</b> 31:17	<b>changed</b> 2:11 31:10	<b>closer</b> 16:13	<b>complain</b> 64:21	<b>conflict</b> 4:8
<b>calls</b> 46:14	<b>channel</b> 24:8	<b>Code</b> 3:1,14, 20,25 4:21 9:19 10:22 11:9 14:20 15:17 16:23 31:1 52:12	<b>Commissio er's</b> 9:20 13:19	<b>connect</b> 39:4, 5,6
<b>capacity</b> 56:13 59:20 60:2,8,9 63:16 67:8 70:25	<b>channels</b> 29:8	<b>collaborating</b> 5:12	<b>commissio ne rs</b> 4:19 21:7	<b>connected</b> 38:22,25 39:3, 14,20 44:11 56:6 72:5
<b>care</b> 31:3 47:1	<b>charge</b> 76:19	<b>collect</b> 63:10 71:5	<b>complain</b> 64:21	<b>connects</b> 24:4 45:19
<b>Cargo</b> 5:14 19:2 51:22,23 52:3,10 53:12, 17,22 55:8 72:2,11,17,23	<b>Charter</b> 7:21 51:23	<b>color</b> 32:7,12	<b>complained</b> 56:25	<b>consideratio n</b> 43:13 68:22
<b>Carlson</b> 14:4 15:20 16:18 17:1,4 20:10 47:4,6 69:6,9, 24 70:2,21 71:3,6,10,18, 22	<b>checkbox</b> 19:22 20:2	<b>colorized</b> 32:4	<b>complaints</b> 6:9	<b>consolidate</b> 11:19 12:13 30:8,17
<b>carpet</b> 66:14	<b>chemicals</b> 58:13 60:12	<b>colors</b> 32:3	<b>completely</b> 50:5	<b>consolidated</b> 31:4 33:14 36:19 73:24 76:9,20 78:22
<b>carried</b> 43:8	<b>chipping</b> 43:1	<b>COMM</b> 2:7 5:19,22 7:6,9 8:3 18:25 20:11 52:2,8, 16 55:7 58:18, 24 60:10 64:23 65:8 79:10	<b>complicated</b> 12:5 75:12	<b>consolidatin g</b> 5:12 36:8
<b>cart</b> 43:3 69:21	<b>chise</b> 53:10	<b>comment</b> 8:20,25 21:22 22:3 26:16 46:20 47:23 48:2 49:5 55:25 65:5 70:3,6 72:13 73:9 78:9	<b>component</b> 73:19	<b>consolidatio n</b> 7:19,20 22:11 29:21, 23 30:5 31:7 73:12,14,16 74:2,5,12
<b>case</b> 71:12	<b>Chris</b> 65:3	<b>comments</b> 18:24 29:5 44:8 46:21 47:9 49:7	<b>computer</b> 36:17	<b>constantly</b> 68:6
<b>cattails</b> 26:22 28:12,13,17	<b>clarify</b> 51:24 52:11 53:13, 20		<b>computers</b> 31:24	<b>constructed</b> 38:13,20 47:9
<b>caused</b> 51:3	<b>clarifying</b> 57:9		<b>concern</b> 29:17 58:14 66:14 67:15 76:11	<b>constructing</b> 38:16
<b>causing</b> 29:10	<b>clean</b> 24:9 25:17 26:8 28:20 29:13 33:8 57:21		<b>concerned</b> 43:10 48:18 54:5 64:2 66:25 67:20 68:4	<b>construction</b> 40:25 75:15
<b>center</b> 3:22			<b>concerns</b> 6:3, 8 33:22 34:8 41:6,15,20 44:8	<b>consultation</b> 13:2,7
<b>Chad</b> 5:15 7:3,8				
<b>chair</b> 6:7 8:7				

<b>Consumer</b> 66:16	25 16:3 19:8, 22 46:11	<b>crocks</b> 43:16	<b>decide</b> 12:22, 23,24,25 14:21 15:9	14:23 15:7
<b>contact</b> 7:7	48:16 72:19, 20,21	<b>cross</b> 39:25	<b>decided</b> 13:18	<b>determining</b> 14:13
<b>contaminatio n</b> 58:22	<b>cost-benefit</b> 14:21 19:4	<b>crosses</b> 23:1 25:21,22 28:2, 22	<b>decision</b> 6:11 12:15,16 14:18 76:4,22, 24 77:23	<b>develop</b> 35:23
<b>continental</b> 32:21	<b>costly</b> 19:24	<b>crossing</b> 25:6,13,20 26:9,19	<b>decisions</b> 12:13 18:20	<b>developed</b> 43:2 51:20 53:1
<b>continual</b> 34:20	<b>costs</b> 11:2 13:8,12,22 14:6 19:4 21:9	<b>culvert</b> 26:19 31:20,22 46:18 55:18 65:17	<b>deep</b> 50:16	<b>developer</b> 30:2 52:1
<b>continues</b> 54:19 66:17	30:19 31:1 46:2 48:8 54:21 72:24 73:1 76:2	<b>culverts</b> 29:1, 11,14 33:6	<b>define</b> 7:23 78:21	<b>development</b> 13:16,21,24 17:15 33:25 34:9,23 35:18 48:22 51:25 54:12 72:21, 24 73:2 76:14
<b>continuous</b> 25:14	<b>counsel</b> 3:6 4:17 9:16	<b>curb</b> 24:18	<b>defined</b> 32:16	<b>development</b> s 11:12 52:13 53:1,7
<b>contour</b> 32:11	<b>counties</b> 14:16	<b>curious</b> 57:22 65:6	<b>definition</b> 78:3	<b>diameter</b> 39:23 44:14
<b>contractor</b> 19:13	<b>county</b> 2:9,10 3:24 7:18,21 9:17,22,24 10:13 11:5,6 14:22 23:5 27:22 28:8 29:1 36:14 37:25 39:15, 22 42:22 43:4 44:2 45:13 60:20 75:19 76:18	<b>current</b> 2:11 12:11 17:10 22:14 38:14 67:6	<b>deletion</b> 7:22 78:19	<b>difference</b> 45:3
<b>contradict</b> 70:8			<b>deletions</b> 78:23	<b>differently</b> 15:1 16:23
<b>contribute</b> 15:14 16:22			<b>deliberation</b> 77:3	<b>dig</b> 51:15
<b>contributes</b> 31:22			<b>Department</b> 46:8	<b>direct</b> 6:9,23
<b>contributing</b> 42:8			<b>describe</b> 29:4 31:16	<b>directing</b> 68:16
<b>controlled</b> 55:4 73:1			<b>design</b> 17:21 44:9 45:18	<b>direction</b> 22:24 24:20 35:14
<b>convenience</b> 76:10			<b>designed</b> 53:3	<b>directly</b> 42:18 44:14 53:18
<b>corner</b> 24:3 28:4 36:5,15 38:11 43:12 69:13,17	<b>couple</b> 26:13, 16 38:8 50:1	<b>date</b> 44:7 72:5	<b>detailed</b> 65:1	<b>dirt</b> 25:14 51:11,12
<b>corners</b> 32:2	<b>courses</b> 60:20 68:14	<b>daughter</b> 47:14	<b>detention</b> 41:18 51:8	<b>discharge</b> 7:16 70:19 71:2 72:25
<b>correct</b> 52:1, 2,8 58:15 66:11 75:1	<b>court</b> 4:9,10	<b>David</b> 42:10, 14,17,21 43:6, 10 44:12,17	<b>Determinatio n</b> 3:1 5:7 7:17 18:19 68:3 79:12	<b>discussion</b> 14:7 73:11
<b>correctly</b> 12:10	<b>covered</b> 62:7 72:4	<b>day</b> 29:9 61:22	<b>determine</b> 6:12,13 7:18, 22 13:11,22 14:8,9 15:22	<b>district</b> 4:5 7:20,23 10:14, 15,17,21,23, 24 11:1,3,16
<b>corresponde nce</b> 66:4,19 67:9 69:1	<b>covering</b> 64:2	<b>deal</b> 53:8 54:18 68:21	<b>determined</b> 32:21	
<b>cost</b> 6:12,17 12:22 14:6,10, 13,23 15:23,	<b>covers</b> 62:11 72:2	<b>dealing</b> 57:6	<b>determines</b>	
	<b>create</b> 54:20	<b>Dear</b> 68:3		
	<b>created</b> 28:16 47:12,17	<b>debris</b> 62:4		
	<b>creating</b> 49:4	<b>December</b> 70:24		
	<b>creek</b> 27:15			
	<b>creeks</b> 23:12			

---

**D**

---

<p>12:4,7,12 16:21 21:20 22:13 23:22 30:11 31:8 32:18 33:13, 14 37:17 42:3 52:13,20,21 54:13 61:3 74:6,9,10,11, 12,16 75:18 77:25 78:1,4</p> <p><b>districts</b> 11:14 12:2 30:20 73:24</p> <p><b>ditch</b> 24:24 25:24 26:21 27:19 28:1,11, 16,21,24 51:4, 15 64:2 65:19 72:7</p> <p><b>ditches</b> 23:12 51:18 62:4</p> <p><b>divide</b> 32:21</p> <p><b>dollar</b> 10:5 15:16</p> <p><b>dollars</b> 13:10 14:11,12 31:5</p> <p><b>dolls</b> 11:15</p> <p><b>door</b> 22:21</p> <p><b>Doorne</b> 24:1, 5,6 28:19 45:19</p> <p><b>dot</b> 56:4</p> <p><b>Doug</b> 37:8</p> <p><b>downsize</b> 19:9</p> <p><b>downstream</b> 24:5,21 28:19 41:4 59:21 60:7</p> <p><b>draft</b> 31:25</p> <p><b>drain</b> 2:10,13, 15 3:1,14,20, 25 4:19,21 7:20 9:13,16, 18,19,20,21, 22,23,25 10:3, 10,13,18,20,</p>	<p>22 11:2,8,9, 10,13,17,19, 23,24,25 12:5, 7,14 13:1 14:20 15:7,17 16:7,23 17:10, 14 19:5,7,20 21:7,13 22:6, 8,22 23:5,12 24:1,2,5,6 25:4 26:3,19 27:22 28:8,19 29:1,3,22 30:3,22 31:1 32:25 36:1,3, 5,6,14 37:25 38:2,6,11 39:15,22 41:15,23 42:8, 22,24 43:4,16 44:2,13,14 45:5 46:20 47:10,13,21 48:7 50:14 52:7,11,15,19 53:18 54:1,9, 14,17,18 56:6, 19 57:7 58:6, 7,11,12,16,23 59:6,21 60:7, 15 61:23,24, 25 62:1,5,7,8, 13,23 64:3 66:10,21 67:6, 15 68:11,13 69:12,18,22, 24 70:1 72:25 73:12 74:3,4, 5,6,9,10,11, 12,16 75:19, 24 76:8,20 78:1,22 79:7</p> <p><b>drainage</b> 3:13,25 4:20 7:23 9:24 10:14,17,21, 23 11:1,3,13, 16 12:2,7 16:21 22:13 31:8 32:17 40:10 45:23 50:4 52:21 53:2 66:11 67:18,21,23 68:5,18,19</p>	<p>70:13 74:9,10, 11,16 75:1,18 77:23,25 78:4, 7</p> <p><b>draining</b> 28:14</p> <p><b>drains</b> 7:20 11:11,12,19, 25 12:14,19 31:21 34:22 36:19,21,23 42:24 48:25 50:1 54:23 60:20 62:5 66:22 67:22 75:25 77:25</p> <p><b>draw</b> 63:15</p> <p><b>drawn</b> 12:10</p> <p><b>drive</b> 23:25 26:23,25 27:20 33:4 34:5,12,17 35:15 39:3 49:21 53:25 65:22 66:8,12, 20 68:2,4,13, 18</p> <p><b>driveways</b> 62:3</p> <p><b>driving</b> 18:5</p> <p><b>drop</b> 10:18</p> <p><b>drops</b> 32:12</p> <p><b>drowned</b> 35:12</p> <p><b>dry</b> 27:7,15 70:12 71:20</p> <p><b>dual</b> 26:6</p> <p><b>dual-walled</b> 27:17</p> <p><b>dug</b> 28:16</p> <p><b>duly</b> 76:2</p> <p><b>Dune</b> 20:13</p> <p><b>dunes</b> 5:11 20:23 27:20 34:5,12,16 36:23 38:21 39:3 48:13</p>	<p>49:21 50:3,10 51:20 53:25 54:17 65:14 66:8,12,20 67:10 68:1,4, 12,18 75:3</p> <p><b>duties</b> 7:16</p> <hr/> <p style="text-align: center;"><b>E</b></p> <hr/> <p><b>e-mail</b> 67:13</p> <p><b>earlier</b> 10:11 20:12 21:5 29:25 32:23 33:21 41:16 45:8,10 49:16 55:14 65:5 73:15</p> <p><b>early</b> 34:2 50:14</p> <p><b>earth</b> 25:25 32:5 33:18 35:20 65:18</p> <p><b>easier</b> 30:18</p> <p><b>east</b> 27:25 28:22 57:4</p> <p><b>edge</b> 32:22 61:3</p> <p><b>edges</b> 45:15</p> <p><b>efficient</b> 30:18</p> <p><b>efficiently</b> 44:18</p> <p><b>elect</b> 19:19</p> <p><b>elected</b> 14:22 16:9,10</p> <p><b>elevation</b> 32:4,5,10,12, 15,20 41:17, 18 42:7 45:3, 19 46:14 51:8</p> <p><b>elevations</b> 31:19 41:16</p> <p><b>emerald</b> 29:9</p> <p><b>enclosed</b> 23:14</p>	<p><b>end</b> 24:21 29:1 31:4 32:14 36:25 45:5 60:23 69:1</p> <p><b>ending</b> 29:3</p> <p><b>ends</b> 29:2</p> <p><b>Endsley</b> 67:9</p> <p><b>Energy</b> 66:16</p> <p><b>engineer</b> 11:15 12:16 18:22 21:2,3 26:15 33:21 34:15,16 35:6, 21,22 37:1,5, 19,20 41:5,6, 11 42:13,16, 19 43:5,9,19 44:16,20 45:1, 6,25 46:4 49:15,19 57:9, 22 59:1,3,10 60:11,17,19 61:1,5,11,14, 18,24 62:15, 16,20,24 63:23 64:5,7 65:1 69:7,8, 19,25 70:16, 22 71:4,9,13, 19 72:4,8</p> <p><b>engineer's</b> 14:1 20:21</p> <p><b>engineerd</b> 23:21</p> <p><b>engineering</b> 5:4 15:5 19:11 21:6 35:23 36:17 78:20</p> <p><b>engineers</b> 5:6 13:2,7 17:20 18:7</p> <p><b>enter</b> 46:2 58:12</p> <p><b>entire</b> 25:15 26:18 32:19 33:9 35:18,24 36:17</p> <p><b>entities</b> 11:3,</p>
---	--	--	--	---

7	<b>experienced</b> 17:14 18:18	73:14 74:20 75:24 76:4 77:16 79:2	33:23 34:11, 20 35:25 37:6, 15 40:5,6,7 43:17 47:12, 17,22,24 48:4, 14 49:3,22 50:18 53:7,25 54:6,19 60:9 67:1 70:9,10 71:14 75:4	<b>forward</b> 2:4, 19,22 3:6 6:11,15 14:9, 13 15:22 32:17 44:8
<b>entrance</b> 49:2	<b>experiencing</b> 18:10 34:11	<b>feasible</b> 19:16	50:18 53:7,25 54:6,19 60:9 67:1 70:9,10 71:14 75:4	<b>found</b> 17:19 21:25 46:5 52:24
<b>equitable</b> 7:24 78:23	<b>expert</b> 3:25 4:21	<b>feel</b> 14:23 39:17	<b>felloes</b> 77:1	<b>frankly</b> 34:25
<b>equitably</b> 79:7	<b>explained</b> 16:21	<b>fence</b> 3:15	<b>floods</b> 55:17	<b>friction</b> 25:1
<b>eroded</b> 29:8	<b>extended</b> 61:4	<b>Ferris</b> 24:16 47:11 57:4	<b>flow</b> 11:12 22:24 24:8 25:1,17 26:10, 12 27:6 29:12 38:6 43:7 45:12 54:5 57:2 60:15 63:14	<b>front</b> 4:18 38:18
<b>erosion</b> 29:7	<b>extraordinaril y</b> 19:2	<b>field</b> 28:23	<b>flowing</b> 57:21	<b>frozen</b> 40:17
<b>established</b> 9:17,22 10:13 11:8,11,20,24 23:7,8 30:1,4	<b>extremely</b> 45:13,15	<b>figure</b> 2:21 5:16 50:1 56:18	<b>flows</b> 34:25 35:9 43:11	<b>full</b> 61:14 67:7 69:20 71:15
<b>Estates</b> 11:23	<hr/> <b>F</b> <hr/>	<b>file</b> 64:22	<b>focus</b> 6:14	<b>future</b> 5:9
<b>event</b> 39:11 40:17 59:7 70:19,23 71:1, 16	<b>faced</b> 68:24	<b>filed</b> 38:3	<b>folks</b> 3:3,8,18 6:9 21:18 23:20 26:11 29:18,20 48:13	<hr/> <b>G</b> <hr/>
<b>events</b> 34:3 42:5 54:8 59:20 60:9	<b>facing</b> 24:16	<b>fill</b> 22:16	<b>follow</b> 31:1	<b>garage</b> 58:7
<b>everybody's</b> 6:25	<b>fact</b> 25:16 55:18 75:6 76:13	<b>filled</b> 62:2	<b>follow-up</b> 14:14 15:21	<b>garbage</b> 57:1
<b>everyday</b> 21:19 47:25 64:10 70:7	<b>factor</b> 14:14	<b>filter</b> 27:6	<b>foot</b> 27:2	<b>gas</b> 23:1 28:22,25
<b>Excel</b> 35:23 36:16	<b>failed</b> 68:11	<b>final</b> 17:21 33:14 67:25	<b>force</b> 18:5	<b>general</b> 25:3 29:5,6
<b>excellent</b> 24:14	<b>fair</b> 15:18 26:9	<b>find</b> 3:18	<b>foreground</b> 28:7	<b>generally</b> 11:18 22:24 25:20 26:11 45:13
<b>exceptionally</b> 21:24	<b>fairly</b> 26:11 29:6	<b>fine</b> 8:23	<b>forget</b> 49:19	<b>gentleman</b> 46:24 49:14 50:22 55:10 57:23
<b>excessive</b> 25:5	<b>fairway</b> 35:11 37:6 63:4 68:15	<b>finished</b> 66:13	<b>formal</b> 77:4	<b>gentlemen</b> 6:4,21 7:11, 14,25 14:8,20 15:21 17:4,7
<b>excuse</b> 54:1	<b>fairways</b> 32:14 51:11	<b>fire</b> 22:21 24:23 65:16	<b>Forton</b> 5:5 21:3,5 26:15 34:15 35:21 37:19 41:5 45:6,9,25 49:15,19 57:9, 22 58:1 61:1, 5,11,14,18,24 62:16,20 64:7 65:1 69:8	<b>Georgetown</b> 3:9 4:3
<b>existing</b> 30:7 34:13,17	<b>faithfully</b> 7:15	<b>firm</b> 5:4 19:11 21:6	<b>get-go</b> 46:15	<b>GIS</b> 56:17
<b>expanded</b> 38:15	<b>fall</b> 46:3 59:13, 25 63:15 71:16,21	<b>fix</b> 51:19	<b>give</b> 3:17 4:14,21,24 5:2,10 6:1,4,7, 10 7:11 9:11 18:16 22:7	
<b>expense</b> 39:19 72:3	<b>familiar</b> 27:1 41:7 44:4 62:24	<b>fixing</b> 51:7 67:22		
<b>expensive</b> 15:8 19:13 30:21	<b>farmers</b> 33:5 64:9	<b>flash</b> 54:22		
<b>experience</b> 3:20 34:20	<b>fashion</b> 73:1	<b>flat</b> 45:3,13,15		
	<b>favor</b> 7:4,10 8:9,16 9:5	<b>flood</b> 5:8 39:10 70:20		
		<b>flooded</b> 20:15 27:8 43:2 50:5 51:4		
		<b>flooding</b> 18:10 20:13, 20 29:16		

33:19 41:12 47:2 68:23	17,22 55:8 72:11,17,23 76:12	<hr/> <b>H</b> <hr/>	44:7 76:11	<b>hit</b> 19:1 58:24
<b>glad</b> 53:23	<b>Grant</b> 50:9	<b>H.D.P.E.</b> 26:6	<b>heard</b> 14:3,6 15:24 16:25 18:9 26:16 27:7 29:18 47:19 52:25 54:6 65:5 76:12	<b>hits</b> 28:8 65:20
<b>golf</b> 5:8 17:11 18:5 20:14,19, 22 22:16 23:18 32:14 33:20,23,25 34:4,10,18 35:1,4,9,17 36:2,3,6,10, 19,22,23 37:8, 22 38:4 39:13, 17 40:11,13 41:1 42:25 48:3,6,9,15, 17,19,20,21, 22 50:4 51:6, 19,25 52:5,14, 19,23,24 53:2, 3,9,11,14 54:2,6 55:2,4 56:2,23 58:12, 23 59:5,8,12, 23 60:3,16,19 63:7 66:25 67:19 68:7,13, 14 69:14,16 70:14,19 72:2, 19 75:13,21 76:3,11,14 79:8	<b>grass</b> 24:25 26:17	<b>hall</b> 2:9 24:23	<b>hearing</b> 2:17 7:12 48:24	<b>hold</b> 2:25 51:9 71:5 77:1
<b>Golfview</b> 11:22 29:25 42:11 47:7,8 69:14 74:3,10	<b>grassy</b> 26:21	<b>hamstrung</b> 45:23	<b>hearings</b> 5:25	<b>holding</b> 70:25
<b>good</b> 2:8 6:20 9:15 17:24 29:6,13 35:6 40:21 41:1 43:23 51:18 63:2 78:17	<b>gratefully</b> 66:18	<b>hand</b> 7:14 18:21 32:2 46:25	<b>hearsay</b> 27:11	<b>holds</b> 27:8 35:10
<b>Google</b> 25:25 33:18 35:19	<b>grates</b> 23:25	<b>handed</b> 33:15	<b>held</b> 20:3 59:23 67:12	<b>hole</b> 35:1,2
<b>government</b> 20:6 79:6	<b>gravel</b> 26:4	<b>handle</b> 13:25 26:11 55:17 56:15 71:7	<b>helps</b> 20:9	<b>Holman</b> 66:7
<b>Grace</b> 49:20	<b>great</b> 5:13 16:24 19:2,20 20:4,24 25:10, 20 41:2 46:8	<b>hands</b> 6:6	<b>hey</b> 4:25 20:2	<b>home</b> 68:11
<b>Grand</b> 2:1,8, 15 7:21 20:4 51:22,23 52:3, 10,14 53:12,	<b>greater</b> 52:4	<b>happen</b> 10:3 53:22 59:22 69:18 75:23 76:15	<b>high</b> 42:6 47:16 61:15, 20 63:17,21, 22 65:17 70:8, 10 71:15	<b>homes</b> 34:19 37:7,13,23 39:10 40:19, 20 41:17 52:12
	<b>green</b> 33:11 43:1	<b>happened</b> 9:19 10:2 53:6	<b>higher</b> 68:15	<b>hope</b> 2:18 54:15,19 57:8
	<b>Greg</b> 55:11 57:11,15 64:17,19,24 65:4	<b>happening</b> 34:3 40:23 41:12 48:6 55:3	<b>highest</b> 32:9 70:13	<b>hoping</b> 50:21 54:24 56:13, 22 61:22 67:5 68:17
	<b>ground</b> 31:21 40:17 50:15	<b>happy</b> 6:24 16:15	<b>highway</b> 46:7	<b>horrible</b> 50:14,17
	<b>groundwater</b> 51:12,15 62:10 63:18 64:3	<b>hard</b> 32:2	<b>highways</b> 11:4,5	<b>horse</b> 31:11
	<b>Group</b> 5:4 21:6	<b>Haven</b> 2:1,8, 15 7:21 20:4 51:22,23 52:3, 10,14 53:12, 17,22 55:8 72:11,17,23 76:12	<b>hill</b> 15:13 49:24	<b>hours</b> 21:20
	<b>groupings</b> 30:14	<b>he'll</b> 20:2	<b>Hirts</b> 5:16	<b>house</b> 42:22 47:8 49:1 61:10
	<b>growing</b> 59:12,18	<b>head</b> 25:9	<b>Hissong</b> 2:4 4:18 5:18,21 9:10,14,15 14:15 16:5,19 17:3,7 18:7, 13,15 52:18 53:15,21 73:7 77:1,3,19,21	<b>houses</b> 42:15 43:15 49:25
	<b>growth</b> 26:17	<b>heading</b> 28:9 43:11	<b>historical</b> 64:25	<b>huge</b> 14:14 42:3
	<b>guess</b> 15:20 48:18 52:23 55:18 57:11 76:5	<b>heads</b> 4:25 27:24	<b>historic</b> 30:11,12 31:14 33:10	<b>hundred</b> 14:11,17 39:11 46:11
	<b>guessing</b> 61:11	<b>health</b> 11:7 74:17 76:9	<b>history</b> 64:22	<b>hundred-year</b> 70:23
	<b>guy</b> 8:22	<b>hear</b> 17:13 18:15 27:11 29:19 41:24		<b>hydrant</b> 65:16
	<b>guys</b> 2:16 6:1 51:15 64:24			<b>hydrology</b> 21:15

<hr/> <b>I</b> <hr/>	<b>increases</b> 55:5	<b>infrastructur e</b> 9:21 38:4 39:18 40:4 43:23 55:6	64:21 67:2	75:6,12 76:22 77:2,5,10,14, 20,22 78:6,13, 16,18,25 79:5, 11
<b>idea</b> 4:23 22:11 30:5 63:7 68:23	<b>indicating</b> 22:25 24:4,6, 16 25:7,23 26:7,22,25 27:4,19,20,22, 25 28:3,4,7,12 30:10 32:3,6, 13,16 33:10, 13,16 34:4,5, 6,12,17,18,25 35:8,9,11 36:5,9,12,15, 20,22,24 37:3, 7,14,15,16,17, 21 38:5,6,9, 12,14,15,16, 18,21 39:2,3, 4,5,6,7,8,24, 25 40:1,2,4,6, 7,8,20,21 41:10,14,17, 18,19,21 42:16,20 43:24 45:5 58:6,7 61:3,19 63:2,5,8,10, 13,14,16 65:17,19 69:23	<b>initially</b> 30:1	<hr/> <b>J</b> <hr/>	<b>key</b> 58:25 70:24
<b>ideas</b> 8:21	<b>indication</b> 29:14	<b>ink</b> 33:3	<b>Jack</b> 37:11	<b>kind</b> 2:17 4:23 9:11 11:14 16:21 24:19 29:22 32:6 40:23 44:21 45:23 60:11
<b>identified</b> 32:20	<b>indicator</b> 25:16,18 29:12	<b>inside</b> 32:24	<b>Jean</b> 49:22	<b>kind</b> 2:17 4:23 9:11 11:14 16:21 24:19 29:22 32:6 40:23 44:21 45:23 60:11
<b>identify</b> 31:19	<b>individual</b> 40:12	<b>inspection</b> 21:12 22:10 24:7 27:5,14	<b>Jeanine</b> 66:7	<b>KLOK</b> 8:2,6, 11,14,17 9:2,7 66:3 73:3,13 74:7,14,18,22 75:5,11 76:6 77:8,12,18 78:5,8,14,18 79:4
<b>imagine</b> 66:16 76:1	<b>individuals</b> 4:4 39:14 66:6	<b>installation</b> 30:2	<b>job</b> 5:3 19:15 39:9 41:2 65:21 78:17	<b>knowledge</b> 27:12
<b>important</b> 19:19 21:23, 24	<b>industrial</b> 23:19	<b>installed</b> 30:2 33:6 41:19	<b>Joe</b> 2:7,9,23 4:11 5:19,22 7:6,9 8:3 14:15 18:23, 25 20:2,11 33:24 34:8 44:4 52:2,8,16 55:7 58:18,24 60:10 64:20, 23 65:3,8 79:10	<b>knee</b> 50:16
<b>imposed</b> 7:16	<b>information</b> 15:3 17:18,21 18:17 21:10 22:8 31:12 46:6,14 69:4	<b>instance</b> 32:18	<b>Joe's</b> 31:3 32:18	<b>knock</b> 67:3
<b>improve</b> 61:22		<b>intent</b> 38:1 40:9	<b>joints</b> 25:11	
<b>improvement</b> 7:19 12:19 56:21 76:8,19		<b>interest</b> 4:8 48:19,20	<b>June</b> 66:15	<hr/> <b>L</b> <hr/>
<b>improvement s</b> 10:5,6,10 11:8,18 17:5, 8,9 20:20 22:17 25:25 33:19,24 34:9 36:11 41:25 51:24 52:22 53:23,24 55:2		<b>introduce</b> 3:3,8	<b>jurisdiction</b> 6:5 9:20,25 10:4	<b>lack</b> 69:21
<b>inadequate</b> 35:14		<b>introductions</b> 2:24		<b>lady</b> 49:6,8, 12,17 50:8 58:21
<b>inadequately</b> 42:3,7		<b>involved</b> 5:1, 3 20:5 33:24 34:1 46:15	<b>Joe's</b> 31:3 32:18	<b>Lamar</b> 35:23
<b>inch</b> 28:3 50:12		<b>irrigating</b> 59:14 60:1,5 64:10 69:11 70:3	<b>joints</b> 25:11	<b>land</b> 23:17,21 78:21,23
<b>inches</b> 44:13		<b>irrigation</b> 34:13,17 38:15 39:4 40:15 51:10 59:11 63:11, 12,14	<b>June</b> 66:15	<b>landowners</b> 33:6 34:11
<b>include</b> 61:4		<b>issue</b> 25:3 43:17 49:3 55:24 56:10 57:14,15 66:22 67:18 68:5,9,18	<b>jurisdiction</b> 6:5 9:20,25 10:4	<b>lands</b> 7:22 10:18 32:23 78:19
<b>included</b> 33:1 68:23		<b>issues</b> 20:14 29:10 30:25 47:17 53:8,25 56:10 57:13	<b>Joe's</b> 31:3 32:18	<b>large</b> 39:20,23 54:21 57:1 59:7
<b>inconvenienc e</b> 68:20			<b>Joe's</b> 31:3 32:18	<b>Larry</b> 4:2 5:5, 10,17,19 20:22 22:15 33:15,17,19, 21 34:16 35:6,
<b>incorporate</b> 44:9			<b>Joe's</b> 31:3 32:18	
<b>increase</b> 24:25			<b>Joe's</b> 31:3 32:18	



22 37:1,5,20 41:6,11 42:13, 16,19 43:5,9, 19 44:16,20 45:1 46:4 52:9 58:24 59:1,3, 10 60:11,17, 19 62:14,15, 24 63:20,23 64:5 69:19,25 70:16,22 71:4, 9,13,19 72:4,8	<b>limited</b> 8:20 <b>Lincoln</b> 11:23 14:5 27:16,18 29:25 30:6 41:8,12,14 42:11 44:15 47:7 55:13 56:14 69:9,17 74:3,9 <b>lines</b> 31:25 32:11 33:3,13 <b>list</b> 17:4,7,8 <b>listen</b> 2:16,21 3:18 16:13 <b>listening</b> 48:11 <b>live</b> 14:4 18:4 21:19 27:12 42:10 47:3,6 48:20 49:21, 24 50:9 55:12 60:23 61:16 66:7,12 68:3 76:3 <b>lived</b> 47:15 50:25 61:16 <b>lives</b> 68:1 <b>living</b> 18:17 <b>local</b> 20:5 <b>localized</b> 29:16 54:19 <b>located</b> 7:20 22:6 <b>location</b> 4:7 22:5 34:4,19 35:12 36:5 37:6,7 38:7,14 39:4,8,25 40:2 41:23 44:1 63:6 <b>log</b> 64:22,25 65:2,7 <b>long</b> 23:10 24:10,12 68:9 <b>longer</b> 12:8 48:8	<b>looked</b> 56:17 64:24 <b>lost</b> 3:5 <b>lot</b> 3:14,20 4:1 17:25 20:15, 16,19 21:9,10 22:21 23:20 24:11 25:12, 13,17 27:8 28:12 29:8,9 30:20 31:3,9, 10 36:2,6,18 37:23 46:3 58:22 60:19 68:21 75:3 <b>lots</b> 30:13 38:17,18 43:23 <b>loud</b> 47:5 <b>louder</b> 61:6,8 <b>love</b> 29:19 <b>low</b> 70:18,25 <b>lower</b> 28:4 32:13 38:21 43:16 60:4,8 <b>lowered</b> 38:23 46:7 51:14 56:17 57:5 <b>lowering</b> 46:11,12 <b>lowers</b> 51:16 <hr/> <b>M</b> <hr/> <b>Machela</b> 65:3 <b>made</b> 12:8 33:20 49:16 55:14,23,25 56:21 57:8 65:4 73:18,20 77:14 78:19 <b>mailings</b> 30:24 <b>mains</b> 65:15 <b>maintained</b> 24:10 30:9	39:16 57:3 <b>maintaining</b> 76:19 <b>maintenance</b> 7:19 10:4,7,9 12:19 19:5 31:2,5 58:6 73:21 76:8 <b>majority</b> 54:1 <b>make</b> 5:8,20 6:11 7:3,5,7 8:6,12,19 9:2 12:15,16 14:18 16:11, 14 19:15,16, 23 20:7 22:2 33:4 35:25 44:9,22 54:20 55:1,3,6 56:14,23 57:20 64:5 73:23 74:2 77:7 78:6,9 79:6 <b>makes</b> 11:18 31:3 55:7 75:16 <b>makeup</b> 11:7 <b>making</b> 18:20 19:11 20:19 77:9 <b>manage</b> 30:18 36:3 37:13,14,15, 20 38:19,24 39:18 40:5,11, 16 45:20 59:7 73:17 <b>managed</b> 37:24 39:16 59:16 <b>management</b> 37:12 39:13 63:9 <b>manager</b> 5:14 16:6 41:1 51:22 52:3,10 53:12,17,22 55:8 72:11,17, 23 76:12	<b>managers</b> 3:12 <b>managing</b> 41:7 <b>manhole</b> 23:24 24:15 27:21,22 28:7 62:11 <b>map</b> 30:10 32:3 33:15 35:20 <b>maps</b> 22:12 56:18 <b>Margie</b> 4:9 <b>Mark</b> 50:23 <b>master</b> 35:24 <b>MDOT</b> 11:4 25:6,20,21 <b>means</b> 9:18 10:18 25:13 <b>meeting</b> 6:5, 18 9:13 10:12 18:6 21:13 46:21 66:9,21 67:11 73:9 <b>meetings</b> 34:8 <b>Meints</b> 5:15 7:3,8 <b>melt</b> 62:12 64:12 70:5 71:20 <b>MEMBER</b> 2:6 8:1,2,4,6,8,11, 14,17 46:19 <b>members</b> 4:12 7:17 <b>mention</b> 22:3 <b>mentioned</b> 13:16 14:15 21:5,12 22:11 23:6 29:25 30:12 32:23 45:8,10 52:22 56:25 57:12 67:1 69:11 70:3
---	---	---	--	--

<b>mess</b> 50:17 56:8	16 9:15	<b>newer</b> 54:12	<b>office</b> 9:20,25 10:1 13:6,11, 20 16:8 30:3 33:3 58:7 65:3	<b>outlets</b> 24:1, 23 36:9 41:15 44:2
<b>metal</b> 23:25	<b>motion</b> 8:5,7, 13,19 9:3 73:23 74:1,2 77:4,7,9,13 78:7,11,12,19	<b>nice</b> 28:20 39:9	<b>official</b> 14:22 16:10	<b>outletting</b> 23:4 53:14,18 59:21
<b>Michigan</b> 2:1 46:8	<b>mountains</b> 32:8,9	<b>Nicholas's</b> 37:11 48:23	<b>officials</b> 16:9	<b>outweighs</b> 19:8
<b>middle</b> 5:10 59:23	<b>move</b> 2:4 3:5 6:11,15 32:17 41:4 44:8 46:5	<b>normal</b> 27:15	<b>online</b> 4:15	<b>overflow</b> 59:6
<b>migrate</b> 35:13	<b>moved</b> 29:22 78:25	<b>north</b> 23:2 27:25 42:17, 18,25 46:3 55:12 56:15 61:16 62:8	<b>onsite</b> 72:21, 25	<b>overgrown</b> 62:2
<b>migrates</b> 63:6	<b>moving</b> 2:18, 22	<b>northeast</b> 69:13	<b>open</b> 23:11,12 24:24 26:21 27:18 28:1,11, 21,24 29:8 42:22 44:13 47:21 56:5 69:24	<b>overtake</b> 44:19
<b>mile</b> 19:7 23:16 26:12	<b>multiple</b> 4:20	<b>northerly</b> 22:24 38:6	<b>opens</b> 28:11	<b>overview</b> 4:21 5:3 6:20 9:12 33:9 44:21
<b>million</b> 14:12	<hr/> <b>N</b> <hr/>	<b>northwest</b> 63:6	<b>operating</b> 27:15	<b>owner</b> 52:20
<b>mind</b> 17:11 42:6 69:6 75:17	<b>names</b> 30:13	<b>northwesterl y</b> 35:13	<b>operating</b> 27:15	<b>owners</b> 10:25 11:7 13:14,23 14:25 15:24 18:9 48:8,9
<b>minimum</b> 29:7	<b>natural</b> 43:7	<b>note</b> 25:12 26:8 72:14	<b>opinion</b> 15:8 77:24	<b>ownership</b> 4:4
<b>minute</b> 31:13 58:4 65:9	<b>nearby</b> 67:20	<b>notice</b> 28:12 67:11	<b>opposed</b> 51:17	<hr/> <b>P</b> <hr/>
<b>minutes</b> 8:20 9:1 33:15	<b>necessarily</b> 16:2	<b>noticed</b> 10:16 55:16 57:12 66:22	<b>order</b> 31:1 67:23	<b>paid</b> 51:25 55:2
<b>miottawa.org</b> 4:13	<b>necessity</b> 6:13,14,15,16 7:19 14:9,10, 18 15:2 17:19 74:24 76:5,23	<b>notices</b> 30:20	<b>originally</b> 23:6 53:3	<b>Pamela</b> 66:19
<b>misundersta nding</b> 48:5,10	<b>needed</b> 15:6 36:13	<b>number</b> 5:6,7 24:9 35:1 78:11	<b>orphan</b> 50:1 68:11	<b>paperwork</b> 12:6
<b>mix</b> 23:19	<b>neglected</b> 66:23	<b>numbers</b> 35:2,7	<b>Ottawa</b> 2:9,10 3:24 7:18 11:5 45:12 76:18	<b>parallel</b> 30:6 44:15
<b>mixture</b> 23:11,17	<b>neighbor</b> 68:11	<hr/> <b>O</b> <hr/>	<b>outflow</b> 55:4	<b>parent</b> 30:22
<b>modeling</b> 36:17 39:9 70:23	<b>neighborhood</b> 47:18 50:13 56:9	<b>oath</b> 6:4,10 7:11	<b>outlet</b> 24:13 27:3 34:24 35:16 36:14 38:5,9,11 39:1,7,8 40:8, 21 41:20,22 43:23 44:11, 12 45:4 53:2, 5,8,10,16 56:6 59:16 60:6 63:2,4,24 70:17 72:18, 19	<b>paperwork</b> 12:6
<b>moderately</b> 44:18	<b>neighbors</b> 18:18 47:18 50:18 67:1 68:5	<b>observations</b> 21:21	<b>occasionally</b> 25:18	<b>parking</b> 22:21
<b>mods</b> 38:8	<b>nesting</b> 11:14	<b>occasions</b> 43:3	<b>occasions</b> 43:3	<b>part</b> 11:19 12:1,3,5 22:9 34:23 35:18 36:11 37:25 38:2,4 39:12, 15 40:10 42:11 44:3,23 47:7 48:7
<b>Monday</b> 66:9 67:12	<b>network</b> 41:19	<b>odd</b> 5:22	<b>odd</b> 5:22	
<b>money</b> 15:5 30:19 31:1 73:18 75:22 76:13				
<b>month</b> 10:11				
<b>months</b> 64:8				
<b>morning</b> 2:8,				

52:19 78:1	79:8	<b>pipes</b> 39:20, 21	68:14 70:18, 25 71:5,15,19 72:5	50:14 51:7,19 55:16 63:24 65:6 66:18 68:14 71:14 75:10,16
<b>partner</b> 5:13 20:4,24	<b>percent</b> 46:10,11	<b>place</b> 9:21 13:6,17 15:1 40:18 54:12 64:2 65:15,20 68:19 71:21	<b>portion</b> 10:19 11:1 32:24 38:21 46:20 73:9	<b>problems</b> 16:22 17:14 18:10 20:16 27:9 34:11 35:25 37:6 44:2,4 49:22, 24 50:4 53:10 54:7,19 56:2 59:13 63:24 64:25 66:11 71:14 75:2,4
<b>parts</b> 31:16	<b>perfect</b> 28:18 30:7	<b>plan</b> 34:9 35:24 40:13 68:19 69:20	<b>portions</b> 23:13	<b>proceed</b> 21:25 24:19
<b>past</b> 22:21 29:2 68:24	<b>perforated</b> 62:16,17,19	<b>planning</b> 36:11	<b>possibility</b> 59:9	<b>proceeding</b> 27:16,23
<b>Pat</b> 50:9	<b>perform</b> 7:16 10:9 67:7	<b>plastic</b> 26:7 28:3	<b>postage</b> 30:25	<b>proceedings</b> 2:3 9:18 10:2
<b>patches</b> 33:11	<b>period</b> 4:7 22:3 23:9 75:7	<b>plenty</b> 15:4	<b>potential</b> 66:23	<b>proceeds</b> 23:1 26:24 27:17 28:21
<b>path</b> 26:2 27:3 43:3 65:13,16, 23 69:22	<b>person</b> 8:20 15:11,12	<b>plowing</b> 62:3	<b>potentially</b> 40:19	<b>process</b> 14:2 16:17 21:11
<b>pathetic</b> 62:1	<b>Pete</b> 68:1	<b>podium</b> 6:2 58:2	<b>Powerpoints</b> 56:19	<b>profit</b> 19:12
<b>Paul</b> 5:5 20:22 21:3,5 26:15 34:3,13,15 35:19,21 37:18,19 41:4, 5 42:2 45:6,9, 25 49:15,19 57:9,22 58:1 61:1,5,11,14, 18,24 62:16, 20 64:6,7 65:1 69:8	<b>petition</b> 2:14, 25 5:24 10:5, 7,9 38:3 54:10	<b>point</b> 6:6 21:11 22:15 23:3 24:20 29:2 54:4 60:22 66:14 72:9 73:10,18, 20	<b>preliminary</b> 17:20	<b>program</b> 48:23
<b>pause</b> 76:15	<b>petitioned</b> 12:17	<b>pointed</b> 73:15	<b>premise</b> 60:14	<b>prohibitive</b> 16:3
<b>pay</b> 11:1,8 13:14,22 16:16 49:4 72:6,9 73:2 75:14 76:14	<b>phone</b> 46:13	<b>points</b> 58:25 73:16	<b>presence</b> 67:14	<b>project</b> 6:13, 19 11:2,21 12:1,23,24,25 13:15,18,25 15:8,9 19:5,8, 18 20:7 21:25
<b>paying</b> 16:1, 15 30:25 46:10 48:22	<b>photo</b> 25:8 26:5 28:13	<b>pond</b> 27:2,3,7 28:17 34:13, 17 36:12 38:13,15,16, 20 39:1,4,5,6, 7,24 40:1 42:18 44:1,3,5 47:16 50:20 51:14 55:13, 17 56:6 57:13 63:8,9,15 67:20 70:9 71:7	<b>presentation</b> 5:11 14:1 18:8,22 22:4	<b>projects</b> 46:10
<b>pays</b> 30:2 72:24	<b>photos</b> 22:9 23:23 24:19 68:23 70:11	<b>ponding</b> 64:13	<b>presented</b> 73:24	<b>properly</b> 39:23 42:8 67:7
<b>peek</b> 21:16 25:10	<b>pick</b> 3:2,11,19 4:6 6:7	<b>ponds</b> 36:12, 13 38:22 39:12,18,20 41:22 48:15, 17 51:8,9 52:5 59:15 60:3,4,8	<b>pretty</b> 8:21 45:3,20 47:5 51:18 64:9 70:12 77:24	<b>properties</b> 4:5,7 12:9
<b>people</b> 3:12, 19 4:20 5:8 12:2 15:10 16:21 19:25 20:17 35:2 37:14 40:5,6,7 50:3 56:9 62:3,18 64:21 71:14 72:14 75:14,17 76:3	<b>picture</b> 23:24 24:22 25:8 26:5	<b>poning</b> 64:13	<b>price</b> 14:19 15:11 48:22	<b>property</b> 10:19,25 11:7 13:14,23
	<b>pictures</b> 21:21 67:25		<b>primarily</b> 6:14 17:22 30:19	
	<b>piece</b> 29:19		<b>private</b> 76:15	
	<b>Pieces</b> 61:5		<b>problem</b> 15:14,17 18:18 22:1,2 40:16 43:6 47:22 48:4,12	
	<b>pipe</b> 24:3 25:7,9,14,17, 19 26:6,7,9, 10,11,24 27:17 28:10, 11,15,21 39:23,25 40:1 41:19 45:24 46:6,12 55:16 62:9,11,17,19 72:18			

14:25 15:24 18:9 21:19 32:24 48:8,9 52:20 67:16 68:15,16 72:19	<b>purview</b> 13:5 <b>pushing</b> 62:3 <b>put</b> 19:12 25:8 26:13,15 34:23 36:4 51:10,21 55:15,25 62:9 63:12 65:14, 16,17 68:19	40:17 59:19, 22 71:1 <b>raining</b> 50:15 <b>rains</b> 55:17 56:12 64:13 <b>raise</b> 7:14 51:8 <b>raising</b> 46:25 51:12 <b>read</b> 66:1,5 74:1 78:11,14, 17 <b>ready</b> 13:18 <b>real</b> 46:2 56:10 <b>realize</b> 44:10 <b>reapplying</b> 59:11 <b>reason</b> 5:23, 25 15:19 30:16 <b>reasons</b> 31:6 <b>reassure</b> 19:1 20:1 <b>receive</b> 13:19 30:23 <b>received</b> 2:14 67:11 69:2 <b>recent</b> 25:24 66:25 <b>recognize</b> 68:17 <b>recommend</b> 32:17 <b>recommende d</b> 12:17 17:5,9 78:20 <b>reconstructio n</b> 75:13 <b>record</b> 78:11 <b>recorded</b> 4:9 <b>recorder</b> 4:10 <b>Recourses</b>	9:19 <b>rectangular</b> 31:15 32:1 <b>red</b> 30:10 31:14 32:1 33:10 <b>Reenders</b> 50:23 <b>reference</b> 4:16 35:7 <b>relate</b> 20:11 <b>relationship</b> 19:2 46:8 <b>relative</b> 76:11 <b>relay</b> 21:16 <b>release</b> 52:6, 14 54:8,22 <b>relook</b> 20:19 <b>remember</b> 27:6 45:2 <b>remind</b> 21:18 <b>renovation</b> 67:20 <b>replace</b> 36:12 <b>replacing</b> 38:8 <b>REPORTER</b> 61:6 <b>REPORTER' S</b> 72:14 <b>required</b> 7:16 10:8 <b>requirement</b> 52:11 <b>residential</b> 23:17 54:12 <b>residents</b> 27:10 30:23 68:21 70:20 <b>Resource's</b> 13:6,11 <b>resources</b> 2:7,9,12 4:14	5:19,22 7:6,9, 18 8:3 10:1 13:2,19 16:8,9 18:25 20:11 52:2,8,16 55:7 58:18,24 60:10 64:23 65:8 76:18 79:10 <b>respect</b> 41:24 <b>responsibilit y</b> 53:9 <b>responsive</b> 55:22 <b>restricting</b> 57:2 <b>retain</b> 52:5 <b>retaining</b> 52:4 <b>retention</b> 51:9 54:22 55:13 <b>retired</b> 3:13, 24 4:4 <b>Retreat</b> 42:17 49:2 54:13 <b>return</b> 26:21 <b>review</b> 33:24 <b>reviewing</b> 11:17 <b>revise</b> 78:7 <b>revision</b> 7:24 77:23 <b>Rich</b> 3:9,10 8:2,6,11,14,17 9:2,7 66:3 69:3 73:3,12, 13 74:7,14,18, 22 75:5,11 76:6 77:8,12, 18 78:5,8,14, 18 79:4 <b>ride</b> 31:11 <b>ridge</b> 32:16 33:12 <b>right-hand</b>
	<b>propose</b> 67:5 <b>proposed</b> 11:18 38:10 74:2 76:7 <b>proposing</b> 70:14 <b>Protasiewicz</b> 5:5 33:21 34:16 35:6,22 37:1,5,20 41:6,11 42:13, 16,19 43:5,9, 19 44:16,20 45:1 46:4 59:1,3,10 60:11,17,19 62:15,24 63:20,23 64:5 69:19,25 70:16,22 71:4, 9,13,19 72:4,8 <b>public</b> 2:17 3:17 5:25 6:1 7:12 8:19,25 11:6 21:22 22:3,19 38:4,5 40:10 43:20 44:7 46:20 48:7 53:8 65:15 73:9 74:17 76:9 <b>pull</b> 28:25 33:18 64:9 <b>Pullman</b> 49:22 <b>pump</b> 56:10 63:9,12,13 <b>pumping</b> 58:22 <b>purpose</b> 10:11 18:16 <b>purposes</b> 59:11	<b>putting</b> 17:20, 23 50:20 <b>puzzle</b> 29:20 <hr/> <b>Q</b> <hr/> <b>quarter</b> 50:12 <b>question</b> 14:5,8,14 15:21 17:2,24 20:12 42:6 44:25 49:15 52:17 57:10, 11 58:4,9,10 59:4 63:1 64:20 69:7,15 <b>questions</b> 6:3,9,22,23 14:2 16:24 22:17,18 <b>quick</b> 21:13, 16 <b>quickly</b> 28:15 <b>quorum</b> 2:5 3:7 <hr/> <b>R</b> <hr/> <b>railroad</b> 25:21 28:9 55:24 <b>railroads</b> 33:5 <b>rain</b> 10:18 62:11 71:11, 16,20 <b>rainbow</b> 32:12 <b>rainfall</b> 34:2		

24:3	<b>saves</b> 30:19	<b>separated</b> 25:11	28:2,22 35:15, 16 36:21 47:1	<b>sneak</b> 21:16
<b>right-of-way</b> 28:8	<b>savings</b> 73:19	<b>separately</b> 11:20,24	49:23 55:12	<b>snow</b> 32:8 62:3,12 64:12 71:20
<b>rise</b> 7:14	<b>scale</b> 15:8	<b>serve</b> 8:13 53:4	56:14,15,24	<b>soft</b> 68:7
<b>road</b> 3:13,23, 24 7:1,2,6 11:5 23:25 24:22 26:4 27:2 33:5 42:20 47:25 51:2 66:22 70:7	<b>scenario</b> 71:12	<b>serves</b> 21:7 23:16 27:3	57:4 68:12	<b>soil</b> 68:7
<b>roads</b> 11:6 45:15	<b>schedule</b> 40:25	<b>services</b> 23:15	<b>sides</b> 3:16	<b>solely</b> 52:23, 24
<b>Rob</b> 35:23 36:16 37:12 39:9,21 41:1	<b>scientific</b> 47:23	<b>set</b> 14:20	<b>signed</b> 10:10	<b>solemnly</b> 7:15
<b>Rocky</b> 32:9	<b>scope</b> 12:23 13:10,11,15, 17,25 14:10 15:9	<b>setting</b> 63:4	<b>significant</b> 10:7 55:5,16 70:18 71:7,11	<b>solution</b> 37:9 67:6 69:20,21
<b>round</b> 47:11	<b>season</b> 59:12, 18 68:25	<b>setup</b> 15:17, 19 16:23	<b>simple</b> 19:7 77:24	<b>solve</b> 22:1 35:25 53:10
<b>row</b> 4:18 46:25 49:13	<b>screen</b> 31:24	<b>severe</b> 37:5	<b>simply</b> 30:21	<b>sounds</b> 17:11 48:2 58:13
<b>rumors</b> 65:5	<b>seconded</b> 79:1	<b>sewer</b> 23:13 24:4,17,23 27:18,19 28:5 29:11 30:1 34:21,22 35:14 38:10 39:2	<b>single</b> 14:18 19:5,18	<b>Souter</b> 2:6 3:22 8:1,4,7,8, 12,16,18 9:4, 8,11 18:23 21:1 44:25 45:2,22 46:1, 19 49:6,10,12, 17 50:7,22 55:9 57:23 58:16 61:7 64:15,18 65:10,25 69:3 71:24 72:16 73:5,8,25 74:8,15,20,23 75:6,12 76:22 77:2,5,10,14, 20,22 78:6,13, 16,18,25 79:5, 11
<b>run</b> 6:4 47:11 48:3 49:1	<b>secretary</b> 8:13 9:2,7 66:1,3 73:3,13 74:7,14,18,22 75:5,11 76:6 77:8,12,18 78:5,8,14,16, 18 79:4	<b>shape</b> 25:20	<b>sit</b> 3:15 33:3	<b>sits</b> 7:1
<b>running</b> 70:15	<b>sections</b> 31:17	<b>She'll</b> 5:2	<b>site</b> 29:17 33:25 34:9 35:18 54:22 72:24	<b>sitting</b> 16:6 71:15,20
<b>runoff</b> 59:19 62:11 70:4 71:1,8	<b>sediment</b> 25:13 26:10 29:12	<b>shed</b> 32:25	<b>sited</b> 15:12	<b>situation</b> 11:10 15:12
<b>runs</b> 6:7 44:14,15	<b>sees</b> 25:17 26:9	<b>Shelton</b> 42:10,14,17, 21 43:6,10 44:12,17	<b>situations</b> 20:20	<b>size</b> 31:19,22 43:13
<b>Russian</b> 11:14	<b>segmented</b> 33:12	<b>shirt</b> 49:7,8,13 55:10	<b>sized</b> 39:23 42:4,7	<b>sizing</b> 39:21 54:7
<hr/> <b>S</b> <hr/>	<b>send</b> 12:9 30:20,21,22	<b>short</b> 46:23	<b>slideshow</b> 25:8	<b>slightly</b> 68:15
<b>Sanctuary</b> 11:23 29:25 36:8,9 54:12 74:4,11	<b>sending</b> 67:13	<b>shovel</b> 57:20	<b>slowly</b> 54:23	<b>small</b> 26:11
<b>sand</b> 51:3,4	<b>sense</b> 11:18 55:6,7	<b>show</b> 7:12 31:13 33:6	<b>southerly</b> 36:22	<b>southern</b> 61:2
<b>Sandy</b> 36:23 38:21	<b>separate</b> 11:13 12:4 54:14 73:17	<b>showing</b> 26:6		
<b>Sara</b> 5:15		<b>shown</b> 33:10		
<b>save</b> 31:4		<b>shows</b> 32:1 70:12		
		<b>shrubs</b> 56:25		
		<b>sic</b> 23:21		
		<b>side</b> 3:15 20:7,23 25:22 27:2,18,23,25		

<b>speak</b> 6:8 52:9 61:6	<b>standards</b> 22:14	23:12	59:23 64:8 70:12	<hr/> <b>T</b> <hr/>
<b>SPEAKER</b> 26:13 35:5 36:25 37:4 41:10 49:9,11, 16	<b>standing</b> 68:6 75:8,9	<b>street</b> 14:5 22:25 23:2 24:16 27:16, 24 28:2 30:7 35:9 42:7,11 47:7,10,11,21 48:1 50:5,24, 25 51:2 56:24 60:24 62:1 65:14 67:16 69:10 70:7	<b>Summerset</b> 54:5,13 55:12 56:3 64:19	<b>table</b> 51:14,16 61:15,20 62:12 64:9
<b>speaking</b> 26:11 45:13 72:14 73:19	<b>standpoint</b> 12:6	<b>streets</b> 67:6	<b>sump</b> 56:10	<b>tag</b> 14:19 15:11
<b>special</b> 10:15, 23,25 12:4,12 16:16	<b>start</b> 9:9 17:20 24:20 46:24, 25	<b>stress</b> 68:21	<b>supervisors</b> 3:12	<b>takes</b> 13:6
<b>specific</b> 9:21	<b>started</b> 14:7	<b>striped</b> 49:7,8	<b>support</b> 8:14 9:4 76:7 77:12 78:10	<b>taking</b> 2:21 5:2 12:3 13:17 15:1 21:21 51:12 60:7 75:25
<b>specifically</b> 60:12	<b>starts</b> 22:25 28:9	<b>stripes</b> 50:8	<b>supported</b> 77:15	<b>talk</b> 12:16,20 17:24 20:22 22:5,10,12 25:19 29:21, 23 35:2 55:21 61:7 73:4
<b>spend</b> 10:6 15:5 19:6 21:20	<b>state</b> 4:19 6:2 11:4 21:7 60:20	<b>structure</b> 39:7 70:17	<b>supposed</b> 3:5 62:4 68:13	<b>talked</b> 21:8 22:13 55:22
<b>Spicer</b> 5:4 21:6 45:9	<b>statehood</b> 15:2	<b>structures</b> 59:16	<b>surface</b> 32:4	<b>talking</b> 4:8,24 14:5 22:7 24:2 52:4 53:19 57:7 58:22 62:8,25 65:3 72:18
<b>spots</b> 35:12	<b>station</b> 22:22 23:1 28:22,25	<b>study</b> 66:11	<b>surprised</b> 47:20	<b>taxes</b> 16:16
<b>spread</b> 13:23	<b>stay</b> 20:5 40:24	<b>stuff</b> 56:25	<b>surrounding</b> 51:20	<b>taxpayer</b> 19:14 76:13
<b>spring</b> 34:2 35:10 40:14 59:19 61:12, 20 63:21,22 64:12,13 66:13 68:8,24 70:5,11,13 71:1	<b>steal</b> 20:21	<b>sub-</b> <b>watersheds</b> 30:24	<b>survey</b> 21:14 29:3 46:6	<b>taxpayers</b> 51:21 76:13
<b>Springer-</b> <b>johnson</b> 66:20	<b>steps</b> 66:15	<b>subcategor-</b> <b>ies</b> 54:14	<b>surveyed</b> 45:7	<b>Taylor</b> 18:3, 11,14 57:25 58:3,20 59:2,9 60:14,18,21 61:2,9,12,15, 19,25 62:18, 22 63:19,21 64:1,8 65:9,11 71:23,25 72:6, 13,22
<b>square</b> 23:16 26:12	<b>stick</b> 25:9	<b>subdivision</b> 11:22,24 36:9, 18 37:16,24 38:9 40:8 41:8,21 42:12 43:2 44:1 47:14,15 53:13 74:3,4, 10,11 75:3,9	<b>surveyor</b> 78:20	<b>technically</b> 19:6
<b>Stacy</b> 4:17,18 5:1 9:8,15 21:12 22:10 23:6 30:11 32:23 73:6	<b>stop</b> 16:12	<b>subdivisions</b> 29:24 30:1,15 36:7 40:12 53:4,10,19 75:2	<b>swear</b> 7:15 47:23	<b>technologies</b> 12:11
<b>staff</b> 5:15 31:3 32:18	<b>stopped</b> 51:13	<b>sudden</b> 48:14,18,21	<b>sweet</b> 46:23	<b>Technology</b> 31:10
<b>stakeholders</b> 16:13 17:22	<b>store</b> 38:22	<b>summarize</b> 8:21 66:2	<b>synonymousl</b> <b>y</b> 10:16	
<b>stand</b> 22:16	<b>stores</b> 27:9	<b>summer</b> 26:18 40:14	<b>system</b> 23:11 24:13 25:1,15 28:24 30:9,19 31:2 34:21,22 35:14 36:14 37:12,25 38:10 39:13, 16,22 40:3,10 41:3 44:22,23 45:23 54:9 58:13 59:6 65:15 73:17, 21	

<b>telling</b> 44:6	<b>tiles</b> 43:16	<b>township</b> 2:8, 15 3:10,12 4:3,7,11 5:14 7:21 10:11 11:6 12:18 13:20,21 16:6, 8 17:22 19:16 20:4 31:17 34:8 51:22,23 52:3,10 53:12, 17,22 54:25 55:8 72:11,17, 23,24 73:2 76:2,12	<b>type</b> 23:22	<b>update</b> 5:10 12:11 33:19
<b>tells</b> 24:12	<b>Timber</b> 20:13 27:20 34:5,12, 16 39:3 48:13 49:21 50:3,10 51:20 53:25 65:14 66:8,12, 20 67:10 68:1, 3,12,18 75:3	<b>traced</b> 68:10	<b>types</b> 23:17	<b>updating</b> 22:14
<b>ten</b> 58:5	<b>time</b> 2:21 6:7, 24,25 8:22 14:18 16:25 17:18 18:10, 11 20:18 23:9, 10 24:7 27:5, 14 28:13 31:17 33:17 34:2 40:14 44:7 49:25 51:1,15 54:23 58:19 65:2 67:4 70:5,11, 15,17 72:10	<b>track</b> 65:8	<b>typically</b> 70:5	<b>upper</b> 29:1 45:5
<b>term</b> 10:22	<b>times</b> 3:15 31:15 75:7	<b>tracks</b> 55:24	<hr/> <b>U</b> <hr/>	<b>upset</b> 48:23
<b>terminology</b> 56:5	<b>title</b> 2:11	<b>trail</b> 55:15	<b>U.S.</b> 31:20	<b>upsizing</b> 46:11
<b>terms</b> 10:15 12:9 17:17 55:5	<b>today</b> 2:14,18 3:21 4:8,17,24 5:2,7 6:12 14:6 24:2 29:20 31:10, 18 32:18 54:15	<b>transcript</b> 4:15	<b>ultimately</b> 10:20 15:9 39:8	<b>upstream</b> 24:20,21 26:5, 19 41:25 42:9 45:21 51:5
<b>terrible</b> 65:21	<b>today's</b> 6:14, 18	<b>transfer</b> 46:20	<b>Um-hum</b> 75:11 78:5	<b>urge</b> 67:22
<b>testimony</b> 3:17 6:1 41:12,24 43:20 44:7	<b>told</b> 20:13 58:11	<b>transferred</b> 69:16	<b>unable</b> 66:9	<hr/> <b>V</b> <hr/>
<b>thaw</b> 50:14	<b>top</b> 15:13 16:16 26:18 61:13 62:11 65:18	<b>Transportatio n</b> 46:9	<b>uncomplicate s</b> 12:6	<b>Van</b> 24:1,5,6 28:19 45:19
<b>thawed</b> 50:15	<b>topo</b> 78:3	<b>traps</b> 51:3	<b>underground</b> 26:24 28:2 69:17	<b>VANDER</b> 8:2, 6,11,14,17 9:2,7 66:3 73:3,13 74:7, 14,18,22 75:5, 11 76:6 77:8, 12,18 78:5,8, 14,18 79:4
<b>thing</b> 5:13 8:23 13:13 21:9 25:12 26:8 29:13 33:2 43:25 46:4 54:4,16 57:7 60:21 75:13	<b>topographica l</b> 56:18	<b>trees</b> 24:12 29:10	<b>underneath</b> 24:18 25:6 26:24 28:9 31:20 54:14 55:23	<b>Vanderklok</b> 3:9
<b>things</b> 2:20 9:12 19:1 21:8,23 32:15 34:7 45:8,10 48:5 53:13 54:11 57:20 60:10	<b>tore</b> 51:7	<b>tributary</b> 11:11	<b>undersized</b> 25:19 29:14	<b>varied</b> 23:21
<b>thinks</b> 15:13 19:21	<b>totally</b> 51:17	<b>true</b> 9:14 60:14 61:4 72:3	<b>understand</b> 3:13,14 18:14 21:10 52:19 64:25 66:14	<b>vegetation</b> 26:22
<b>thousand</b> 13:10 14:11	<b>tour</b> 21:14 45:11	<b>trust</b> 79:6	<b>understandin g</b> 41:3,14 52:25	<b>vent</b> 43:18
<b>three- member</b> 3:2		<b>tuned</b> 20:5	<b>understands</b> 3:25 19:20	<b>verify</b> 27:13 33:2
<b>three-panel</b> 3:11		<b>turn</b> 22:15 33:17 39:22 68:15 76:5	<b>undertaking</b> 66:11	<b>versus</b> 31:12 41:17,18
<b>thunder</b> 20:21		<b>turned</b> 30:3	<b>undeveloped</b> 23:18	<b>vote</b> 12:21 13:3,5,9 14:25 15:2,3,10 16:20
<b>tied</b> 38:14 59:15		<b>turns</b> 25:24 27:24 33:12	<b>unfair</b> 76:16	<b>votes</b> 15:4
<b>tight</b> 33:8		<b>Twelve</b> 35:5,6	<b>unique</b> 11:10	<hr/> <b>W</b> <hr/>
<b>tile</b> 42:2			<b>UNKNOWN</b> 26:13 35:5 36:25 37:4 41:10 49:9,11, 16	<b>walk</b> 58:3

<p>65:22</p> <p><b>walking</b> 26:2 27:3</p> <p><b>walkout</b> 43:16</p> <p><b>walks</b> 27:13</p> <p><b>wall</b> 26:6</p> <p><b>wanted</b> 52:11 54:11,16 73:4</p> <p><b>Warner</b> 23:1 27:24,25 28:2 47:12 50:23, 25 51:2 60:23</p> <p><b>water</b> 2:7,9,12 4:13 5:19,22 7:6,9,18 8:3 9:19,25 10:18 12:9 13:1,6, 11,19 15:13 16:8,9 18:25 20:11,16 25:1 27:8 28:14 31:21 32:23, 25 34:20,24, 25 35:8,11,13, 15 36:3 37:13, 14,16,21,22, 23 38:17,19, 22,24 39:13 40:5,11,14,18, 22 41:7,18,22 42:4 45:12 48:3,15 49:1, 25 50:11,14, 16 51:2,9,14 52:2,4,6,8,12, 15,16 54:8,21, 23 55:7,19 56:10 57:13 58:7,12,18,24 59:8,11,17 60:2,7,10,15 61:15,20,21 62:12,22 63:1, 3,5,8,10 64:9, 13,23 65:8,15, 19 66:12 67:2 68:7,16 69:12, 16 70:8,10,15, 19,25 71:2,15 72:25 75:8,9, 20 76:18</p>	<p>79:10</p> <p><b>Watersedge</b> 26:23</p> <p><b>watershed</b> 10:14,17,20, 21 11:1 15:12 23:15 26:12, 18 29:15 30:7, 12 31:12,19 32:20 42:4 45:16</p> <p><b>ways</b> 56:18</p> <p><b>website</b> 4:13 56:17</p> <p><b>weed</b> 26:17</p> <p><b>weeks</b> 4:14 26:14,16</p> <p><b>welfare</b> 76:10</p> <p><b>Wenger</b> 61:24,25</p> <p><b>west</b> 11:23 24:16 25:22 27:2,18,23 29:25 41:8,9, 12,14 42:23 74:3,9</p> <p><b>wet</b> 35:10</p> <p><b>whatsoever</b> 4:5</p> <p><b>white</b> 32:7</p> <p><b>William</b> 18:3, 11,14 57:25 58:3,20 59:2,9 60:14,18,21 61:2,9,12,15, 19,25 62:18, 22 63:19,21 64:1,8 65:9,11 71:23,25 72:6, 13,22</p> <p><b>wind</b> 66:25</p> <p><b>winds</b> 59:13</p> <p><b>windshield</b> 21:14 45:11</p> <p><b>winter</b> 60:1 68:8,24 70:5, 18</p>	<p><b>wintertime</b> 38:23 60:5</p> <p><b>wood</b> 55:19, 20 57:18,19 67:3</p> <p><b>wooded</b> 63:17</p> <p><b>woods</b> 63:5</p> <p><b>word</b> 4:12</p> <p><b>words</b> 16:1</p> <p><b>work</b> 5:7 13:4, 20 16:7 19:3, 14,17,22 21:6 24:21 40:3 41:1 46:25 51:18,23 54:17 59:5 66:23 67:23</p> <p><b>worked</b> 3:23 39:21 40:25 67:18</p> <p><b>working</b> 5:6, 12 17:21 20:7, 23 22:23 26:20 35:22 37:8,10 40:24 46:8,10 67:16, 17,23 75:25</p> <p><b>works</b> 4:19 44:17</p> <p><b>world</b> 28:18 30:8</p> <p><b>worried</b> 50:18</p> <p><b>worry</b> 68:24</p> <p><b>worse</b> 57:16 67:21 68:8 71:12</p> <p><b>worth</b> 19:25</p> <p><b>wrong</b> 75:1</p> <hr/> <p style="text-align: center;"><b>Y</b></p> <hr/> <p><b>yard</b> 27:21 32:24 67:17</p> <p><b>year</b> 19:7 33:22 34:2</p>	<p>39:11 47:11 50:11,12 57:17 68:6,9</p> <p><b>years</b> 3:23 4:4 18:11,12 20:16 24:9 43:2 47:9,10 48:12 49:22, 23 50:4,5,13, 25 51:1 53:6 56:20 57:6 58:5 61:16 62:2 71:11</p> <p><b>young</b> 49:17</p> <hr/> <p style="text-align: center;"><b>Z</b></p> <hr/> <p><b>Zerillo</b> 49:20</p> <p><b>zoom</b> 34:14</p>
---	--	--	--