1	STATE OF MICHIGAN
2	COUNTY OF OTTAWA
3	
4	IN RE: HOP DRAIN
5	BOARD OF DETERMINATION
6	
7	
8	Proceedings commenced at 10:00 a.m., on Tuesday,
9	November 19, 2019, at the Borculo Community Center, 6520 96th
10	Avenue, Zeeland, Michigan, held before Marjorie A. Covey,
11	CSR-2616, Certified Shorthand Reporter and Notary Public.
12	
13	
14	APPEARANCES:
15	Mr. Joe Bush, Ottawa County Water Resources Commissioner
16	Mr. Chad Meints, Chief Deputy to Water Resources Comm. Ms. Sara Hirts, Secretary
17	Mrs. Dish Manday-Klah. Daggad Chairman
18	Mr. Rich VanderKlok, Board Chairman Mr. Ken Souter, Board Secretary
19	Mr. Larry Bruursema, Board Member
20	Mr. Paul Forton, P.E., Spicer Group
21	Mar Cara Calash's all's Plantas Marsak's Marsas
22	Mr. Greg Golembiewski, Blendon Township Treasurer
23	Mr. Jerry Olman, Ottawa County Road Commission
24	
25	

Zeeland, Michigan

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November 19, 2019 - 10:00 a.m.

## PROCEEDINGS

WATER RESOURCES COMM. JOE BUSH: Good morning everyone. I'm Joe Bush, the Ottawa County Water Resources Commissioner, also known as the Drain Commissioner. I changed the name back in -- or the Board of Commissioners did change the name and water resources more fit to what the job is really all about.

Basically we're here today because we had a petition from residents and that's -- there is two ways to petition my office, and that is either through the property owners for the township, and this particular petition, which is in Drain Code, if anybody gets bored, you can look up the Michigan Drain Code online and read it. It's not very thick but it's very complex and that's why we're here, because we received a petition from the property owners. And this is for improvements on a drain known as the Hop Drain, which is a county established drain.

One thing to note on a particular drain, the Drain Commissioner or Water Resources Commissioner is only allowed to spend 5,000 per mile, per year, per drain. If it goes beyond that it's going to require a petition or resolution from the township.

In this circumstance we kind of said hey, we need

to petition our office if you want improvements or adding a branch, anything to do legally on this particular Hop Drain as we know it, the improvements need to be done through a petition.

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And we invite people within the drain district and that's where you got your mailing for today's meeting.

So to do all of that is part of my job. And that's why we're here at the Borculo Community Center is to go through the process and have a public hearing, have public testimony, which are you folks.

And I have to get a three-panel board, that's what I have to do. They're not affiliated with the Hop Drain, Blendon Township, or have any affiliation with the project whatsoever. They're outside of the drain district. Usually outside of the township.

And I appoint people who understand Drain Code, which is very important. Number two, they understand drainage. And number three, they understand the process of why we're here and they represent their own townships that either now currently or they have in the past or they understand engineering, and they have experience in doing these BODs. Several of these folks have been doing these for quite a few years.

So we try to get experts at drainage, that's why were here, primarily focused on drainage or flooding concerns

or basically high water.

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So what we do is we invite people, and then I got a court recorder, we have Margie, and she's a court recorder so everything is recorded word for word. So during the public testimony, you'll see on the agenda, get up, state your name, address and go ahead and voice your concerns or if you have a problem.

We find out at these Board of Determinations that there is more problems than what we're aware of because we can't be everywhere. We don't talk to everybody. But people would normally come and say oh, yeah, I had a problem too; or they can say, I don't have a problem.

That's good for this panel to understand. These three gentlemen, they don't know anything beforehand. They get appointed, I call them, my secretary who signed everybody in, Sara and Chad, puts the Board of Determination together. These gentlemen have not been out there to say oh, yeah, there is a problem or talk to the property owners. They're here for the public testimony to hear the problems.

And then we're here today for these three gentlemen to decide whether we move forward with the project.

There is no project cost, we don't even have a project. But in Drain Code it requires me to hold a Board of Determination to determine the necessity. That's why we're here today, the necessity for me to move forward with

something with an engineering firm to say, yeah, there is a problem, how do we fix it, and what does that look like? So that's why we're here today.

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If somebody asks what's the cost of this? We haven't evaluated that, because this three-panel board has a decision. They can turn it down and say, we don't see a necessity. I can't have a \$10,000 engineering cost that I have to pay and they decide to turn it down because I have no way to pay that cost.

So I don't put the carriage before the horse, so to say. I wait for this three-panel board per Drain Code to say, yes, we see a necessity to move forward. And that's why you're here today.

I appreciate everybody's time this morning. People say, why at 10 o'clock in the morning, why not at 6? I get more people that show up at 10 than I do at night, and that's the truth. Everybody says you get more people at night; no, I get more complaints at night, I'm interrupting supper time, sports, homework, there is always something, people are busy at night so we try to stick with 10 o'clock.

I do appreciate your time, I respect your time and we'll try to make this go as smoothly and quickly as possible because if you have an issue or disagreement, this is the time to do it in front of the court recorder.

You can read this later. You can always go to the

website, MIOttawa.org, give her four to six weeks and it will be on my website, hopefully, and you can read word for word what I say, what the engineer, what the board and what you folks say.

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This is why we're here, to listen to you folks, that's primarily our job, and then for this three-panel board to make a decision on that. That's what they base their decision on.

I'll do introductions quickly. We have a township board member, Greg is in the front row with us today. So, Greg, we appreciate your time to come here and kind of see the process and the issues over in that area.

We have Jerry Olman from the road commission. The road commission is one of our key partners in a lot of projects because a lot of road water and roadside ditching affects drainage and affects the stability of the road. So they're a big partner in all of our projects, and one of the key people for how we move things forward.

We will go from right to left. Ken Souter is from Port Sheldon Township, he was with the road commission nearly 40 years as an engineer so he definitely knows Drain Code and water, it flows downhill. Right, Ken?

BOARD MEMBER KEN SOUTER: Right, it also has.

WATER RESOURCES COMM. JOE BUSH: And then we have -- oh, my gosh, Rich VanderKlok, I always forget Rich. He's

been doing this for a few years. He's a township board member at Georgetown Township and Rich does a great job of doing this, he understands drainage and Drain Code and the process.

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Then we have Larry Bruursema and he's from

Georgetown Township as well. He was a board member, city

town -- township manager for multiple, multiple years, sat on

the road commission board for, I forget how many years.

BOARD MEMBER LARRY BRUURSEMA: 18.

WATER RESOURCES COMM. JOE BUSH: How many?

BOARD MEMBER LARRY BRUURSEMA: 18.

WATER RESOURCES COMM. JOE BUSH: So 18 years as a commissioner. So very experienced board members and they're here to listen to your testimony.

And then of course I introduced Margie, our court reporter.

We have Paul Forton from Spicer Group, he's the engineer. There will be a presentation from him to highlight some of the concerns and the issues out near the Hop Drain. And then if you have an issue with maybe your district, the lines on the map or -- be sure to stand up because we always have Paul go out and check that out, if it's deemed necessary to move forward, to make sure those lines align to what's really happening.

Paul will go into more detail on that but we're

more than happy to go out and evaluate it and say, yeah, you're in, or no, you're not really in. Now is the time to voice that if you don't think you're in.

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Then my staff, of course, my chief deputy Chad, and Sara my secretary.

So as soon as I give these three gentlemen the oath, they'll take over the meeting, they will elect their own chair and secretary.

If there is any questions, be sure to ask them and they'll direct their questions to either Paul Forton or I.

But I'll give them the oath and they will run the meeting.

Gentlemen, please rise. Raise your right hand.

Do you each solemnly swear that you will faithfully perform and discharge the duties imposed upon you as required by law as members of the Board of Determination appointed by the Ottawa County Water Resources Commissioner to determine the necessity for maintenance and improvement for the Hop Drain, located in Blendon Township in said county, and to further determine whether the addition or deletion of said lands as recommended by a licensed engineer or surveyor will more accurately define the drainage district boundary of the land benefited by the drain, and whether such revision is just and equitable pursuant to Section 197 in Public Act 40 of 1956, as amended, gentlemen?

BOARD MEMBER KEN SOUTER: I do.

1	BOARD MEMBER RICH VANDER KLOK: I do.
2	BOARD MEMBER LARRY BRUURSEMA: I do.
3	WATER RESOURCES COMM. JOE BUSH: Thank you.
4	BOARD MEMBER RICH VANDER KLOK: The first order of
5	business is the election of a chairperson for our Board of
6	Determination. A motion would be in order.
7	BOARD MEMBER KEN SOUTER: I move that Rich serve as
8	chairman on this.
9	BOARD MEMBER LARRY BRUURSEMA: I'll support that.
10	BOARD MEMBER RICH VANDER KLOK: Moved and supported
11	that I serve as chair.
12	If there is no discussion, all those in favor, say
13	aye.
14	BOARD MEMBER KEN SOUTER: Aye.
15	BOARD MEMBER RICH VANDER KLOK: Aye.
16	BOARD MEMBER LARRY BRUURSEMA: Aye.
17	BOARD CHAIRMAN RICH VANDER KLOK: And opposed?
18	None opposed, that's carried.
19	And then a motion would be in order to appoint a
20	secretary for our Board of Determination. And I would move
21	that Ken Souter be the secretary.
22	BOARD MEMBER LARRY BRUURSEMA: I will support that.
23	BOARD CHAIRMAN RICH VANDER KLOK: It's moved and
24	supported.
25	There being no discussion, all in favor, say aye.

1	BOARD MEMBER KEN SOUTER: Aye.
2	BOARD CHAIRMAN RICH VANDER KLOK: Aye.
3	BOARD MEMBER LARRY BRUURSEMA: Aye.
4	BOARD CHAIRMAN RICH VANDER KLOK: That is carried.
5	Then the next item of business that we want to do
6	is just make reference to public comment. And I would like
7	to make a motion that public comment shall be limited to
8	three minutes per person, and if someone would support that?
9	BOARD MEMBER LARRY BRUURSEMA: I would support
10	that.
11	BOARD CHAIRMAN RICH VANDER KLOK: Moved and
12	supported that public comment be limited to three minutes per
13	person.
14	All those in favor, say aye.
15	BOARD SECRETARY KEN SOUTER: Aye.
16	BOARD CHAIR RICH VANDER KLOK: Aye.
17	BOARD MEMBER LARRY BRUURSEMA: Aye.
18	BOARD CHAIRMAN RICH VANDER KLOK: And that is
19	carried.
20	The next the next item that we want to deal with
21	is the engineer presentation. And then after his
22	presentation, then we will entertain public testimony.
23	So, Paul?
24	ENGINEER PAUL FORTON: Thank you, Board. I know
25	I've worked with several of you before, but if I haven't and

you haven't worked with me, I'm extremely casual so again if you guys have questions at any time, feel free to stop me.

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I'll try to be brief in respect of everybody's time but I do want to go through the information in a little bit more detail on what we've seen.

Joe hired us to come on and do an inspection, a cursory inspection of the drain. I've spoken with many of you out in the field as we've done that.

So we'll get into number one where is this drain, talk a little bit about the background about this drain, then we'll get into that inspection that we were able to complete, and we're going to talk about the drainage district boundary and then take any questions that you may have.

So again just as a reminder for everybody in the room, Joe mentioned this, but we are not here to talk about scope or how big or small this project will be or how much it's going to cost. We have no idea with the information that we have. This is really just the first step in the process.

So I know a lot of times folks want to know how much is this going to cost? We have no idea. I don't even have survey data on this drain.

This is completely a visual inspection. Given that it was hunting season we tried to stay on the roads and not traverse outside of the road right-of-way so as not to mess

any of you up if you were trying to bow hunt earlier in October.

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So the location is just about three miles east of here at Port Sheldon and 76th is where our drain is located.

The dark blue line that you see up the middle here is the drain. Here is the intersection of Port Sheldon and 72nd. I might have said 76th earlier.

BOARD SECRETARY KEN SOUTER: You did.

ENGINEER PAUL FORTON: My fault. 72nd Avenue, that is close to where the drain outlets. This would be the downstream point where it dumps into the Beldt Drain.

The drain itself flows generally in a northerly direction from Van Buren Street past Bingham over to 72nd and then north until it crosses Port Sheldon.

The system itself is an open drain system so we're talking about a creek or a ditch. This is not a storm sewer or a pipe system. It's an open drain system.

The watershed that it serves is approximately 800 acres or one-and-a-quarter square miles. And generally speaking the land use in this area is agriculture and undeveloped forest ground. We do have homes along the roads, but again you're looking at mostly agriculture and forest for a land use type in this area.

That's important probably only to somebody like me as we look to model a system like this, potentially how much

water runs off, how much can be absorbed in the ground, how much is commercial and so on and so forth.

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I want to go through a series of photos now so that those of you who haven't seen the drain or looked at other portions beyond where you live, you can kind of see the general condition.

This is a picture standing along 72nd, and it's facing south which is upstream of our drain. You can see that there is a large box culvert here. This is the upstream end of the Beldt Drain. So this water is flowing towards us and then making a turn and heading west.

So I'm going to -- just as you see here, the drain looks in fairly decent condition at this location, you have good vegetation on both sides and things are stable.

As we move further upstream, this is a picture close to Port Sheldon, now looking north or downstream.

Again things are in pretty good condition. There are a few isolated areas where we're starting to see some erosion along the roadside. That can cause obviously safety concerns for the traffic if somebody moves over on the shoulder and perhaps goes, we try to have a bank there so folks have something to ride on and recover.

But there are a few isolated spots where some erosion is starting to occur and things are getting a little closer to that edge of asphalt than we'd like to see.

This is a picture at 72nd and Port Sheldon. You can see we have a steel tube here that conveys the water from the south side of Port Sheldon to the north side. And this culvert is in pretty decent condition. It's a little bit tough with the lighting in here but you can see -- this is typical, that it's starting to rust along the water surface line.

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A positive here is that you have a large amount of open area in this culvert. That means that there is not a lot of sediment in this culvert. It can convey the water, and in this case, this is in fairly good condition here at Port Sheldon, the Port Sheldon crossing.

As we move upstream, down 72nd Street, you can see that we start to see some of the vegetation is getting a little bit excessive in areas where it can start to slow that flow in the drain.

There is several driveway culverts along 72nd and there is one buried under the grapevines here. And you can see how this vegetation could inhibit flow during a storm event where the water just can't quite get through as efficiently as we'd like to see it.

Also some of these driveway crossings, again most are steel culverts, some of them are pushing their service life. I would say most of them are in fairly decent condition, but as we see that rust line grow, we start to

have concerns about that culvert failing ultimately and causing capacity issues.

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But in general the culverts are in good to fair condition. There are several though that are approaching the end of their service life.

If you remember from the map, that open drain paralleled 72nd and it broke off to the east, this is just a picture of that bend.

And the next photo here is looking upstream from 72nd looking east up the drain. Again, no major blockages, we did not observe any major woody debris within the drain itself, but we are starting to see some of the vegetation encroach.

My understanding is this drain was cleaned out not too many years ago, I guess in my world probably within five to ten. Some maintenance work had been done on this drain to try to alleviate some of the issues.

And it's clear here that in some of those portions things are looking pretty good still. So that's excellent news.

Moving up the next crossing is Bingham Street, and we have another steel culvert here fairly close to the same size as Port Sheldon, maybe a little bit smaller.

Again, it's in fairly good condition but you can see the rust line is beginning to form. And any time we get

that water-air interface, that's where we'll start to see the wear on these culverts the soonest. I did not witness any holes through the rusting at this point or pitting, but you are starting to lose some of the cross-sectional area of the steel.

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Upstream of Bingham Street you can again see we do have some vegetation that's beginning to encroach.

The next crossing is a concrete pipe. I believe this is an old airport runway, I'm not sure if it's still being utilized that way or not, but there is an old concrete pipe that is buried in the weeds here. You can just see the edge.

So take my word for it, it's buried in there. Not a great photo but you have a concrete pipe in there.

That concrete pipe is much smaller compared to the road crossings that we see downstream, okay.

And with that, this is a photo now that's taken from on top of that culvert looking downstream. And it's hard to see because of the leaf cover, but the yellow lines represent the width of the channel, the average width of the channel if you were to cut all the brush and trees away, you'd see a channel that is this wide between the yellow lines.

What you're seeing from the culvert, which is under my feet here, and just downstream of that is it's much wider.

We have what we call a scour hole on the downstream side of this concrete pipe.

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Without doing any modeling and with your experience with the road commission, you know, you guys already know this, this is an indicator that this pipe, in particular, this pipe is too small. Any time we see a scour hole on the downstream side of a pipe, we know that that pipe is too small.

There is several reasons for that. Again, when compared to the downstream culverts, it's a much smaller pipe; but another issue that this particular crossing has is on both ends, the last section of concrete pipe on each end has dropped, it's tipped down. So instead of having a nice shotgun barrel type pipe (indicating), it goes across the runway strip and both ends have dropped. And any time an end drops, you start to lose some of the cross-sectional area that that pipe can carry, okay.

It's a fancy way of saying when you get a big storm, water builds up, it's blasting through the downstream end of this thing like a shotgun barrel, it's just blowing.

To give you a sense of how big a gap this is, this is a picture on the upstream end of that same crossing where that pipe is tipped down. It's always hard to tell from a photo's size and perspective, I was able to stick my head in that joint through the gap in the top of that, and I have a

pretty big head, most engineers probably do. I know I'll get 1 2 a laugh from the guy with the road commission, but to give 3 you a sense, my head fit through that so I could take a peek 4 and look at what it looked like downstream to see how the 5 pipe is. 6 The main run of the pipe is in great shape, but the 7 ends are definitely a cause for concern. UNKNOWN SPEAKER: 8 What size is that pipe? 9 ENGINEER PAUL FORTON: What size is that pipe? 10 did not measure it. I believe it's 36 or 48, somewhere in 11 that size range. 12 BOARD SECRETARY KEN SOUTER: Ouick question. 13 ENGINEER PAUL FORTON: Go ahead. 14 BOARD SECRETARY KEN SOUTER: It looks like form 15 your picture there has been some work done around that pipe? 16 ENGINEER PAUL FORTON: Yes, I did notice a backhoe 17 behind the owner's home there. And it looked like they tried 18 to repair some of the erosion that's been occurring here. 19 Many times if it's undersized, what will happen is 2.0 the water will build up on the upstream side and it will 2.1 start to swirl trying to get into that pipe. And a lot of 22 times that swirling action will start to chew out around the 23 sides of that pipe as that water is trying to suck in and get

I don't know if that's what happened here, I don't

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through.

know for sure, but that would be my best guess. And as it chews out the sides it undermines that invert, and that pipe and material underneath it disappears and drops.

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On the downstream end, very similar circumstances where when the water comes blasting out of this, because it's at a high velocity, is starts to swirl. And a lot of times that's what causes this scour hole to form and it will scour even on the edges of that pipe. It will chew away the backfill from that pipe and that's another reason why the downstream end would drop. Excellent question.

UNKNOWN SPEAKER: The pipe that crosses Bingham is still full on a bad storm so --

ENGINEER PAUL FORTON: Yes. Yes. So I don't know if you caught that.

I know we're kind of intermingling public comment with the presentation, but the pipe that crosses Bingham is still full when that pipe is full.

Up at Van Buren Street, we have another concrete pipe underneath the road. It's in great condition, no concerns here.

You do see that the waterline is slightly high in this culvert, which leads me to believe we need to do a little bit of maintenance dipping downstream so we can provide more relief for this culvert.

Another thing you'll notice here is the change in

vegetation color. And you can see there is a ring right here, and these photos were taken after I believe it was an inch-and-a-half or two-inch rain.

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I'll put a mark on it, you can see there is a high watermark where the vegetation is brown down here and green up high (indicating). So that tells me that the last storm event prior to my inspection, the water was up that high.

It's a little easier to see in the photo here where now I'm standing on Van Buren looking north, or downstream.

And you can very clearly see the mud line, where that vegetation is brown from here down and green up above that.

So the water in this particular system does buildup, and it holds there for quite awhile.

This is the end of the legally established drain at least as it's shown on the county GIS layer. We have not done historic research to see if it continues past this point. But on the county GIS it ends here at Van Buren and this is looking upstream into yard areas.

Facing west down Van Buren, this is just a photo that I took because at this point you're saying, why are we here, Paul, why are we even talking about this? What's the problem?

Most of the source of the complaints that we've received are right here at Van Buren. The reason for that, if I go to the overall map, there has been localized flooding

that's been reported on the south side of Van Buren. And I know that there are a lot of folks here in the audience today that will attest to that.

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Perhaps with your experience with the road commission you know that. I'm going to be honest quite frankly, welcome to Blendon Township. It's flat as a pancake. If you get on Port Sheldon down here and you look to the east, you're not seeing large hills. It's flat, which leads to drainage issues.

And so the localized flooding on the south side of Van Buren, what will happen in this watershed is water will flow generally from Barry Street, from this area, in a northerly direction. And it's hitting Van Buren Street and kind of gets stuck there. Van Buren is almost serving like a dam.

There is several small cross culverts that can get the water to the other side, and then obviously the culvert on the county drain; but those tubes cannot keep up with the water that comes to that area. That's either -- without doing any modeling, it's quite simply either a function of the capacity at Van Buren or the ability of the open ditch downstream to carry that water away. If it's extremely flat, it takes a lot of time for that water to exit the system.

So those would be the two things that we would want to look at if a design were required for this particular

system.

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That being said, again, I want to emphasize we're not here to talk about scope or cost. I'm just here to present what I have seen and what I have heard from the residents that I've talked to.

This particular area on the north side of Van Buren is very similar in the fact that water just sits there. I talked to several landowners and you can see all the ditches and the aerials where farmers have tried to get that water away.

In this particular township, as flat as it is, dig a ditch and you can send it east or you can send it west.

We'll talk about that a little bit more when we get into the boundary.

This particular picture is taken on the south side of Van Buren, and this is a residence where this is a shed that they've got in a little lower area. What I always look for is indicators, right, like that mud line in the open channel.

The indicator on the shed, you can see that water has come up high enough on that shed to put grass clippings sticking to the side of that. So we have another high watermark on this particular building where you can see in that storm event the water came up, begins to spill over Port Sheldon. But at that point it's causing issues for

homeowners on the south side.

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So overall there are a few areas of concern where you've got erosion along the banks on 72nd. There are a few spots where the vegetation is now beginning to encroach on that open channel. There are some of the driveway culverts specifically that are getting close to their service life given that they're steel and beginning to rust out.

We also have that concrete culvert that appears to be undersized with the scour hole. Those joints obviously are indicating that that culvert is beginning to fail. Then we have localized flooding on the south side of Van Buren Street.

So that's kind of a summary of the inspection, just a window to look into the area.

Now I'm going to completely shift gears.

So the first thing you have in front of you is necessity. Again you're not determining what the project will be but is it necessary that we do something or not.

The second thing that's in front of you, and Joe spoke to this is the actual drainage district boundary. And when I say drainage district boundary, there is a couple different ways to say that. There is the district boundary, you can call it a watershed boundary, a special assessment district, all of those things are the same thing.

And what Joe asked us to do is, as a result of the

inspection, hey, while you're out there, verify the boundary, let's modernize it to match our new elevation data, basically LiDAR data. They fly an airplane over the county, it shoots a beam down, comes back up to the airplane and they can get basically a surface model of the ground.

And then why is that important? We'll get to that in a little bit.

But I mentioned the special assessment district, I guess we'll dive into it right now.

This is the current historic existing boundary and anybody inside of that line would have received a notice about today's meeting.

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One thing I'd like to point out about the existing district boundary is that it's very blocky. This is how we used to do it years ago before we had real high quality data.

Well now everybody inside of that district boundary or special assessment district would be liable for an assessment for any work, maintenance and so on that's done on this particular drain.

So it's important that we get that line as accurate as possible to ensure that the correct people are paying, and those that shouldn't be paying, don't.

How we determine that is basically off the surface flow, surface water, where does that water go. We're identifying that outer boundary of the watershed. We're

basically looking for the edge of the bathtub where any rain that hits goes down the drain hole. That's what we're trying to do here through this process.

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So how do we do that? We look at LiDAR data. And you can see the old yellow line here, this is at Barry and 72nd. The old yellow line was fairly close, we didn't make any major, major changes around this line.

But you can see that there are two different drainage patterns here that I want to point out. You can see there is an area here at the south end, and if you have never looked at this LiDAR data before, this white area here I like to think of that as the high point, like the snow on the mountain. So this is a colorized rendering of this information data.

Here is the snow on the mountain, and the continental divide, per say, and then it flows down to the lower green colors. So what we have here is an area or acreage that does drain to the north through this valley has historically not been included in this district.

The way that plays out for the drain office at a day of review is that this person comes in and says, hey, I'm paying, but all of their water is coming onto me and they're not, and that's not fair. We agree, this is the time and the process that we can fix that.

The reverse situation is that we have a particular

parcel like this where their water clearly flows to the west, and I'm going to go to the next slide and show you where there is some culverts that we identified.

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This water doesn't even make it through this culvert, it goes to a different drain, but currently it's being assess to that based on the historic boundary. So that's why we're here today.

So the process that we take, we sit in the office and we draft up what's called a field check in line based purely on LiDAR. Sitting in an office doesn't get it done. You have to go out in the field and then we field check it, and that's where we find these culverts to verify that, yes, this water goes that way, and this water goes that way.

We've done that around the entire perimeters of the boundary.

The magenta line is what we would propose to include and then the yellow line is the existing boundary as it sits today. So again very close, especially considering the data that they had when some of these old boundaries were originally established, but we do need to make some corrections.

I'll point out one right here especially since there is so many guys from the road commission in the room or former road commission. There is one cross culvert right in this particular area (indicating), and the way it sits today, there is a little blip right there if I were to zoom in,

there is some water on the east side of 72nd that goes that way, but not as much as historically used to go that way. So that's one particular area that we've cleaned up.

2.0

2.1

Coming over here to the corner of 64th and Van

Buren there is a new home that got built and you can see from
that corner there is a road side ditch on the south side of

Van Buren that brings that water over to the west, until it
hits another cross culvert under Van Buren to get it to the
other side.

There is another ditch that brings the water out to the south and takes it that way. So that's how we do this process and we look at each individual area to figure out where we are adding and removing lands.

The other thing that I'll note is that I mentioned earlier that everybody inside the yellow line received a notice, we also extend that boundary out for today's purposes to include everybody in our proposed line as well.

So you might be sitting in the room and you might say, I own a parcel -- let me see if I can find one. I own this corner right here, my water doesn't even go that way, it goes to a culvert and goes west. I agree, but by law we have to send you a notice so you're aware of today's meeting, okay?

So there are some of you that may have been removed and there might be some of you that we've added or added more

acreage based on our field inspection and what the elevation data can show us.

More than you ever wanted to know about district boundaries and watersheds.

So at this point this would be the proposed boundary that we would like you folks to vote on later on in your proceedings.

Yes?

2.0

2.1

BOARD SECRETARY KEN SOUTER: I have a question.

Now if this is passed and you revise this drainage district, do you then go and revise the drainage districts that are adjoining it so that -- or does that have to go through some kind of a hearing also?

ENGINEER PAUL FORTON: Excellent question.

So when we revise this boundary today, in effect what you're saying is all the other surrounding areas are now slightly inaccurate too.

BOARD SECRETARY KEN SOUTER: That's correct.

ENGINEER PAUL FORTON: So we can't just change those. Is a portion in the law called Section 197, and I'm not a lawyer but that's what they labeled it as part of the Drain Code. And you can go through this Section 197 process and have a day of review for each of the other drains surrounding this to match that.

I believe that's something that Joe's office is in

the process of doing, going through their historic file and looking at the new LiDAR data. Because at the end of the day you want all of these district boundaries to fit like a puzzle. You don't want any overlaps, and you don't want any gaps.

2.0

If you have overlaps, say I own an 80-acre farm and I've got 60 acres going into this district, well there might be a historic roll that has 60 acres of my property in another one. Well wait a minute, 60 and 60 is 120 and I only own 80, that's not fair.

So those are the types of things that we are in the process of updating through the files.

So certainly not today we can't legally change it today. The lawyers would kill me if we tried to do that today. Legal counsel would not be happy.

But it is something that's on our radar screen to correct because I know for example, I believe it was at Van Buren and 72nd there have definitely been some issues where folks were getting assessed for the Klynstra Drain, and they came in and Joe's office corrected that. Saying we don't have a cross culvert that takes water across 72nd, we shouldn't be in.

So that's again, a lot of those comments, I appreciate talking to many of you in the field so that we could verify and nail this basically.

1	Any other questions that the board has?
2	Great. I will turn it back over to you. I'm
3	available for questions.
4	BOARD CHAIRMAN RICH VANDER KLOK: Thanks.
5	Now I'd like to open it to the public comment and
6	I'm going to ask that if you want to address the board, that
7	you state your name and address; and if you could, identify
8	where you live or have lands in the drainage district.
9	And so normally we have you come forward so that
10	Margie is able to hear you, but if you'd like to if you
11	can stand and speak loudly enough so that she can hear you,
12	that would be fine.
13	So is there anyone that would like to address the
14	board?
15	If you'd stand and please state your name and
16	address and the land that
17	MR. BERNIE TERLAAN: My name is Bernie Terlaan,
18	7100 Van Buren Street.
19	BOARD CHAIRMAN RICH VANDER KLOK: Margie, can you
20	hear him okay?
21	(At 10:41 a.m. went off the record.)
22	(At 10:42 a.m. went on the record.)
23	BOARD CHAIRMAN RICH VANDER KLOK: And just address
24	your comments to the board.
25	MR. BERNIE TERLAAN: Okay. My name is Bernie

Terlaan. I live at 7100 Van Buren Street.

2.0

I own four acres which is adjacent to 28 acres that's behind me which is where all the water comes from and it comes on my property. I also have a bunch of photos from different times. I've also went to the road commission years ago.

I've lived there since 19 -- actually since 1974 in the same area within a thousand feet of where I'm living right now. But I've lived in this house since 1998. And I've had water go over the road. I've had water all the way around my house. I've got pictures here, I don't know when you want to see them.

BOARD CHAIRMAN RICH VANDER KLOK: Sure, if you have pictures, that would be fine.

MR. BERNIE TERLAAN: I can give you those. These are from 10-2. These are from 13, and the ones from 13 are going to show a lot worse because the county changed the drain -- they added a drain -- well years ago I went to the drain commission and they didn't do nothing for me so I ended up going to Grand Haven to Ottawa County.

And they in turn came out and checked and they could not lower the ditch that's along 72nd because there is a huge gas line that runs right down the middle of it.

So in turn they came down about, I don't know, a hundred, 200 feet from -- might be a little more than that.

It's actually on Kamps property line.

2.0

2.1

2.4

But anyway they put a culvert in there to get rid of the water because they couldn't get it where it was properly supposed to go. So now it crosses the road and goes in front my house back over to the Hop Drain.

And this has happened four times already this year. But it's happened, there are summers that we don't have it; but any time you get more than two inches of rain and up to four inch, once the ground gets saturated I get flooded. I have pictures of my building.

BOARD CHAIRMAN RICH VANDER KLOK: Sure.

MR. BERNIE TERLAAN: And I also got another set of photos just like that of October 27th, so that was within the last couple of weeks.

BOARD CHAIRMAN RICH VANDER KLOK: Okay.

MR. BERNIE TERLAAN: So this is my problem, this is the 28 acres that you're looking at right here, that's what it looks like. It looks like I'm at the cottage.

But anyway that's what I've been dealing with for 20 years. And I used to live on the other side of 72nd Street, and I've seen that -- which is Kamps house now, but I've seen that where that was flooded and actually got water into the building itself, in their home.

BOARD CHAIRMAN RICH VANDER KLOK: So you're basically speaking in favor of the necessity to --

MR. BERNIE TERLAAN: 1 Yes. 2 BOARD CHAIRMAN RICH VANDER KLOK: -- that something 3 has to be done? 4 MR. BERNIE TERLAAN: Yes. BOARD CHAIRMAN RICH VANDER KLOK: Okay, good. 5 And 6 you can pick these pictures up --7 MR. BERNIE TERLAAN: You guys can have those if you 8 want to look at the other ones that I have on the phone. 9 BOARD CHAIRMAN RICH VANDER KLOK: I think that's 10 fine. 11 ENGINEER PAUL FORTON: I've seen them. MR. BERNIE TERLAAN: There is one thing I'd like to 12 13 say about this. 14 That water all runs in my pond which it used to be 15 agriculture, now it's zoned for residential. But that 16 particular field right there got zoned residential, and it 17 used to be a huge farmer, Borson Farms had that land, or 18 leased it. And they used to unload in front of my, on Van 19 Buren Street they used to come up and go around. 2.0 Well they also bought all the land around it. 2.1 they filled in a bunch of the ditches on the other end so 22 that they didn't have to go with their combines and go on 23 72nd to unload their stuff. So they have a farm on Barry 24 Street so they just cut through that corner which in turns 25 sent most of that water this way.

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BOARD CHAIRMAN RICH VANDER KLOK: Sure. Sure.
 1
 2
     Okay.
 3
               BOARD SECRETARY KEN SOUTER:
                                            Thank you.
 4
               BOARD CHAIRMAN RICH VANDER KLOK: Thank you.
 5
               MR. BERNIE TERLAAN: You're welcome.
 6
               BOARD CHAIRMAN RICH VANDER KLOK: You can take your
 7
    pictures if you'd like.
 8
               Is there anyone else that would like to address the
9
    board?
10
               State your name and your address and where you
11
     are -- where your property is located.
12
               MR. ERIC PAYNE: Eric Payne, 5438 - 72nd.
13
               BOARD CHAIRMAN RICH VANDER KLOK: Okay.
14
               MR. ERIC PAYNE: And to kind of show you where I'm
15
     located at here, it would be right here (indicating). I have
     the 28 or 29 1/2 acres that borders Mr. Terlaan that just
16
17
     spoke.
18
               And what hasn't been mentioned that I guess I want
     to make clear is a lot of us would like to extend the Hop
19
2.0
    Drain branch due to the concerns that Bernie mentioned.
2.1
     I have the same issue on my property that I'm pulling water
22
     through an open ditch coming from Barry, that hits my land
23
     dead center. And that's what's flowing haphazardly across my
2.4
     29 1/2 acres towards Mr. Terlaan.
25
               The issue that we have since we don't have a legal
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county drain is where do I go with the water to make this 1 2 situation better without hindering someone else. 3 BOARD CHAIRMAN RICH VANDER KLOK: MR. ERIC PAYNE: So if I dig a new open ditch, and 4 5 now the other neighbor has a water issue. 6 BOARD CHAIRMAN RICH VANDER KLOK: 7 MR. ERIC PAYNE: So I'm kind of running out of 8 options on where to go. And I mean I'm willing to try to 9 manage my own property, but the issue is I can't also modify 10 the natural flow of the water. 11 But I don't really consider it natural because I have a ditch that comes right in from the south to my 12 13 property. 14 BOARD CHAIRMAN RICH VANDER KLOK: 15 MR. ERIC PAYNE: So if I were to fill in the end of 16 that ditch, bury the end of it to protect that, that might help Mr. Terlaan, but then it affects these properties back 17 here to the south. 18

So the general idea that hasn't been stated is if along this property line here there is an old open ditch from 40 years ago that hasn't been touched, probably due to the same issue of liability. If that was extended as the Hop Drain, that would fix the majority of our problems because that would give us a place to put the water legally.

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ENGINEER PAUL FORTON: Board, if I may before you

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move on, Eric, he used the word extend which doesn't mean
 1
 2
     anything to most people, but it's very critical with the
 3
     Drain Code and the way that the petition was written was to
 4
    possibly extend and/or add branches.
 5
               So what Eric is asking for is viable under this
 6
    petition, I quess I wanted to point out.
 7
               BOARD CHAIRMAN RICH VANDER KLOK: Sure.
 8
               So you're speaking in favor of the necessity for
9
     improvements?
10
               MR. ERIC PAYNE: Yes, sir. And I cannot speak on
11
    behalf of some of my neighbors with larger tracks of land but
12
     I know on my own, if I had somewhere to legally go with my
13
     water at my own expense, I would push my water that
14
     direction. And I'm out of -- since the water is flowing
15
     north to where I have, I'd say five neighbors with two- to
16
     four-acre parcels, I'm really out of options with the
17
     direction the natural flow is going to make it any better.
18
               BOARD CHAIRMAN RICH VANDER KLOK: Sure, okay.
19
     Good, thank you.
2.0
               MR. ERIC PAYNE: Yep.
2.1
               BOARD CHAIRMAN RICH VANDER KLOK:
                                                 Is there anyone
22
     else who would like to address the board?
23
               If you'd come forward, please, and state your name
24
     and your address.
25
                                 I'm Carey Kamps, and I live at
               MR. CAREY KAMPS:
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6671 Bingham. And I've lived there 45 years. It wasn't even a road when I came.

2.0

2.1

But we have no ditches on the side of Bingham to -I'm on the border I think of this shed. But there is no way
we can get our water to the drain. We need ditches on the
side of the road with proper culverts, we've needed it for
years.

And I'm in favor of, if we're going to work on the drain, we got to be able to get our water there.

BOARD CHAIRMAN RICH VANDER KLOK: So are you saying that you are in the current district, or you're on the -- just on the border?

MR. CAREY KAMPS: I believe I am, I'm on the edge.

And I've also got 40 acres on New Holland. And according to the picture it looks like it could be -- could be -- DeLange owns the 40 on the corner, and I'm the next 40.

BOARD CHAIRMAN RICH VANDER KLOK: Okay.

MR. CAREY KAMPS: And that water comes across the back and it actually flows east onto DeLange. And DeLange put in a drainage system, and real close to my property line he's got a manhole there that would take my water.

But I plowed that this fall, and I skipped it because you got to leave that open for that water. But it's flowing east through there. And I think according to your picture it looks like it's supposed to go north, northwest.

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ENGINEER PAUL FORTON: I want to, if I may, I would
 1
 2
     like to take a look at that if we can, let me get down to
 3
     that boundary slide. I want to make sure I understand
 4
     exactly where you are.
 5
               I believe this is one is going to be our best bet,
 6
     right there.
 7
               So up on Port Sheldon, are you speaking to this
 8
     area here?
9
               MR. CAREY KAMPS: No.
                                     My first thing was on
10
     Bingham.
11
               ENGINEER PAUL FORTON:
                                             Right here?
                                      Okay.
12
               MR. CAREY KAMPS:
                                 East of the Hop Drain.
13
               ENGINEER PAUL FORTON:
                                      Okay.
                                             In this area?
14
               MR. CAREY KAMPS: Yeah.
                                        There is no ditches in
15
     there to carry that water, all that area where all them
16
    houses are.
17
               ENGINEER PAUL FORTON: Very, very flat.
               MR. CAREY KAMPS: It's flat, but if we had a ditch,
18
19
    head pressure would carry it.
2.0
               ENGINEER PAUL FORTON:
                                      Yep.
                                            And so when you say --
2.1
     okay, so as we talk about extending and adding branches, we
22
     can't just do that on a whim, we would need easement from
23
     folks or working with the road commission to maybe establish
24
     a branch along the road, or possibly work with the road
25
     commission to not even establish a branch, but work within
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your right of way, Jerry, to accomplish some of these things.
 1
 2
               So to the east of the drain on Bingham is your
 3
     first concern?
 4
               MR. CAREY KAMPS:
                                 Yep.
               ENGINEER PAUL FORTON: You've mentioned DeLanges,
 5
 6
     which kind of brought me up here.
 7
               MR. CAREY KAMPS: No, DeLange is down here on new
    Holland.
 8
9
               ENGINEER PAUL FORTON: Down here?
               MR. CAREY KAMPS: You see 64th and New Holland
10
11
     there?
12
               ENGINEER PAUL FORTON: Yes.
13
               MR. CAREY KAMPS:
                                 That's his 40.
14
               ENGINEER PAUL FORTON: 64th and New Holland, all of
15
     this water --
16
               MR. CAREY KAMPS:
                                 Right. That 40. And I'm the
17
    next 40 so I'm close.
               ENGINEER PAUL FORTON: All of that water in that
18
19
    particular area, it's difficult to see in the aerial but I
2.0
    know from being out there it's not in this drainage district.
2.1
     So at New Holland and 64th that all bleeds to the east.
22
               MR. CAREY KAMPS:
                                 I wasn't sure.
23
               ENGINEER PAUL FORTON: Just as you said.
2.4
               MR. CAREY KAMPS:
                                 Okay. Then I guess Bingham
25
     Street is my own --
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1	BOARD CHAIRMAN RICH VANDER KLOK: Sure. Sure. And
2	you're speaking in favor of the necessity of it?
3	MR. CAREY KAMPS: Well we need ditches and it's
4	only going to help the road. In spring we got to carry that
5	frost out of the road. Without a ditch the road goes to
6	pieces.
7	BOARD CHAIRMAN RICH VANDER KLOK: Absolutely,
8	understand.
9	MR. CAREY KAMPS: Thank you.
10	BOARD CHAIRMAN RICH VANDER KLOK: Thank you.
11	Is there anyone else who would like to address the
12	board?
13	MR. DAN GRAVELING: My name is Dan Graveling. And
14	I own property on, well it comes off of Barry Street. My son
15	also has a house there as well that connects to my property.
16	His address is 7065 Barry Street.
17	His house would be right next to that culvert that
18	is going underneath Barry from yeah.
19	ENGINEER PAUL FORTON: Right in there?
20	MR. DAN GRAVELING: A little bit further to the
21	go to the west.
22	ENGINEER PAUL FORTON: Okay.
23	MR. DAN GRAVELING: Right in there.
24	ENGINEER PAUL FORTON: Gotcha.
25	MR. DAN GRAVELING: And then as Eric Payne said,

yeah, that culvert goes through. There is an old, I don't know if it was a drainage district or what it is, but again if Eric were to block that, I would flood out all that much worse too.

2.0

And part of that does flood when we do have heavy rains as well in the back. So I guess I'm in favor. I don't exactly know of what, but --

BOARD SECRETARY KEN SOUTER: Of getting rid of the water?

MR. DAN GRAVELING: Right. And my son's house too, just, you know, that basement has -- you know, it lays pretty flat, the lay of the land behind us. So if things were to get worse, I could see a problem with his basement flooding as well. So, yeah.

BOARD CHAIRMAN RICH VANDER KLOK: Okay, good, thank you. Appreciate your comments. Because that's obviously one of the things that this Board of Determination, we make that determination for necessity and maintenance.

Then it goes to the Water Resources Commissioner, and with the engineer, then they have the authority to go ahead and look at the scope.

We don't know what that scope will be, and so your comments are very pertinent and important because you're giving us direction in terms of what you see and what you're experiencing with your property. So thank you.

1	Is there anyone else that would like to
2	MS. CHERYL DOORNBOS: Hi, I'm Cheryl Doornbos. I
3	live at 6485 - 72nd. So I am just at the junction of the
4	two, you know, where you cross Port Sheldon, we're on the
5	north side.
6	We had never been included in this type of an
7	assessment before, it had stopped at Port Sheldon. And I
8	wasn't familiar with it at all.
9	But we are assessed for the drain going west, which
10	is, I thought the Avink Drain.
11	ENGINEER PAUL FORTON: Right.
12	MS. CHERYL DOORNBOS: Is that correct?
13	ENGINEER PAUL FORTON: She's right here on the
14	corner. I'm going to go down to the one with the aerial,
15	this one is better. It has a label. You have the Beldt
16	coming up to 72nd and the Avink coming in. And then you got
17	the Hop Drain drain coming along the
18	MS. CHERYL DOORNBOS: So that's the Beldt Drain,
19	not the Avink?
20	ENGINEER PAUL FORTON: Well Beldt to 72nd and then
21	it looks like it is the Avink from there up. So behind you
22	it is the Avink.
23	So if you were to receive a special assessment, you
24	have the pleasure of being in at least four, I think.
25	Because number one you're on the continental divide, so some

of your water, some of your acreage gets to the Hop. The 1 2 bulk of your acreage goes to the Avink. But since both of 3 those drain through the Beldt, you're in that one. 4 And then if you do any work on anything downstream 5 of the Beldt then you happen to be in that one too. 6 For example, I'm in two drainage districts as well 7 because I'm in a small one that dumps into a big one. You're 8 in a situation where some of your water goes one way, some 9 goes to another, but it all ends up in one spot going 10 downstream. 11 MS. CHERYL DOORNBOS: The drain on the north side of our property always flows east. I've noticed that, even 12 13 the fish coming up are going east. 14 But there were neighbors that I've talked to, and 15 they were all wondering about this too, why are we on the 16 west side assessed for this Hop Drain. 17

ENGINEER PAUL FORTON: So are you on the west side of 72nd?

MS. CHERYL DOORNBOS: On the west side of 72nd, yes, and our house is bermed up and setback.

18

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ENGINEER PAUL FORTON: The folks on the west side of 72nd, the only parcel on the west side that is in is the -- I believe there is some greenhouses there on that corner.

MS. CHERYL DOORNBOS: The greenhouses there.

ENGINEER PAUL FORTON: And those are the only folks 1 2 that would be included in the assessment role. 3 for that is there is a culvert that goes underneath 72nd 4 bringing their water from the west side to the east side. 5 Not a very big area, but a little one. 6 MS. CHERYL DOORNBOS: Okav. 7 ENGINEER PAUL FORTON: Now you may have received a 8 notice because you're so close to the line, we tend to 9 over-notify slightly so that we don't want to miss a parcel 10 that by law needs to get a notice. 11 So if you're on the west side of 72nd and you don't own anything near the greenhouse, then Merry Christmas, 12 you're not in this district. 13 14 MS. CHERYL DOORNBOS: Yeah. Otherwise that's a 15 double whammy for the assessments. And the neighbors are all 16 wondering, there is a couple of them just on the south side 17 of Port Sheldon too, and they've all said, we're on the west 18 side, why do we have to be assessed for this drain? 19 ENGINEER PAUL FORTON: Most likely those are folks 2.0 that received a notice just to over-notify slightly to make 21 sure that every parcel was --22 BOARD CHAIRMAN RICH VANDER KLOK: So you didn't miss anyone, right. 23 24 BOARD SECRETARY KEN SOUTER: We didn't want to miss

25

you.

1	MS. CHERYL DOORNBOS: That's good. Thank you.
2	BOARD CHAIRMAN RICH VANDER KLOK: That's good
3	clarification, appreciate that.
4	Is there anyone else that would like to address the
5	board?
6	Jerry, do you have I'm sorry, before after
7	he's finished, Jerry, if you, from the road commission have
8	any comments.
9	Yes, sir?
10	MR. CAL KARSTEN: Cal Karsten, 7004 Van Buren. I
11	have a piece of property on Van Buren which is along the back
12	side of Eric's.
13	But we were talking about cleaning out ditches that
14	are not part of the drain. Is that a part of the assessment
15	that the Hop Drain costs would go to? Or would that be just
16	the individual landowners paying for the cleaning of those
17	ditches?
18	ENGINEER PAUL FORTON: It depends. So number one
19	we might not get jurisdiction.
20	If I may, sorry, guys?
21	BOARD CHAIRMAN RICH VANDER KLOK: No, go ahead.
22	ENGINEER PAUL FORTON: I forget formality here, but
23	to answer your question, if some of the if additional
24	branches are established, many times the Water Resources
25	Commissioner or Drain Commissioner will give a higher benefit

factor for folks that are served by that branch. They don't 1 2 always have to do that, but occasionally that will happen. 3 For example, somebody could say I live at the lower 4 end of the Hop Drain, I don't have any benefit by extending 5 this up further. 6 And so you're all in a watershed together so to 7 some extent everybody pays; but the folks that might be serviced by a branch that's added or extended, may receive 8 9 what's called a higher basis of benefit, a higher benefit 10 factor for their acreage. 11 And so that's a long way of saying, yes and yes, you might have to pay some of it, but probably not all of it. 12 13 If that makes any sense. 14 I got another question. MR. CAL KARSTEN: 15 Joe, you mentioned that you have 5,000 per mile per 16 year? 17 WATER RESOURCES COMM. JOE BUSH: That's all I'm 18 allowed to spend. 19 MR. CAL KARSTEN: That's county money, right? Or 2.0 drain money? 2.1 WATER RESOURCES COMM. JOE BUSH: That's actually 22 money assessable from the people. So the county doesn't have 23 money for drains. Everything is special assessment. 24 So that 5000 per mile, per year, per drain comes 25 from the road commission based on road runoff and

right-of-way, it comes from a percentage that I put to the 1 2 townships, which is usually sometimes 20, 25 percent of the 3 cost, and then the county will split half. When I say 4 county, the county, me, will split the special assessments 5 with the road commission because we share that per Drain 6 And that's how we operate by doing that. Code. 7 And then whatever is left over, whether it's MDOT 8 or the railroad or another township does a split in the cost, 9 then it goes back to the residents. 10 So that 5,000 isn't money that's in a pool of money 11 that the county has for drain maintenance. 12 It's not like you take 5,000 from MR. CAL KARSTEN: 13 mile two and put 10,000 toward mile one? 14 WATER RESOURCES COMM. JOE BUSH: We could go up to 15 10,000 if it's two miles. 16 MR. CAL KARSTEN: But you can't take 10,000 and put 17 it on just one of the miles? 18 BOARD CHAIRMAN RICH VANDER KLOK: 19 ENGINEER PAUL FORTON: I want to clarify a few 2.0 things if I may, because I think we're asking a question but 21 I want to make sure there is a bigger elephant in the room. 22 The maintenance miles, that's when we do 23 maintenance, clear trees, remove beaver dams, ash tree falls 24 in the drain, you got to cut it out.

That is not what we're talking about today.

25

would be general maintenance like you do an oil change on a car or Jerry replaces a culvert or repaves a road. So that cap is not what a cap would be here.

2.0

In a petition project, what this is going to allow Joe's office to do would be to exceed that 5,000 per mile in maintenance in order to conduct a larger project.

And then that cost would be assessed again to the township at large, the road commission has a benefit for the right-of-way that they have, and then the county in general for convenience, health and welfare I believe is how the law is written. So I just wanted to clarify that too.

And, as far as those maintenance dollars, if you can assess 10,000 in maintenance without notice and just cleaning things up, that 10,000 can get spent anywhere on this drain centerline.

I just want to clarify to make sure that you don't walk away without all the answers and that you don't make a decision based on some of the facts.

WATER RESOURCES COMM. JOE BUSH: I want to be clear too because I know Rich is on Georgetown Township, and sometimes they pay at large because they have a bigger budget, bigger pot of money, it comes down to the township.

I have about six to seven townships that pay at large and pay whatever the three big ones, township, road commission and county will pay that mechanism.

But we'll say Blendon, Robinson, some of your more 1 2 out in the country, less tax base, they don't pay at a 3 hundred percent. So they'll say, give us our 25 percent, 4 we'll pay that, and then the residents would have to take the 5 rest of the costs. 6 So it varies township to township too, and year to 7 year and project to project. Some years Blendon might not 8 spend much money, some years they're like, we're at our max. 9 And it's spread over years. I can actually spread an 10 assessment like this, hypothetically speaking if it's 50,000, 11 and the residents are like, well I really can't afford it 12 this year. Can you spread it over three or four or five 13 years? I can do that, or ten years. So I can spread that 14 out at very low, low interest rates. We get phenomenal 15 interest rates for projects. 16 I hope that answers your question. 17 BOARD CHAIRMAN RICH VANDER KLOK: Thank you. Anyone else from the audience who wants to speak? 18 19 Yes, sir, Greg. 2.0 MR. GREG GOLEMBIEWSKI: Good morning. Greg Golembiewski, address 6874 Bingham Street. 2.1 22 And I would speak in support of starting with the 23 extension that Eric was talking about early on. 24 Clearly there is a water issue out here in Blendon

Township. We have drains that need to be maintained,

25

extended. We have residents that are accruing property damage and buildings, not being able to farm. We certainly don't want residents to face liability where their property is being devalued at all.

2.0

2.1

And I live just west of Carey Kamps, and our street is an issue there with no drains on either side. So he lives on the north side, I live on the south side.

So when the frost comes out of the ground, the water will go over the road. And I'm not really sure even if they put drains on the north side, how is our water going to get over to there. So -- but that's obviously something for the experts to answer there.

I just do know that anywhere you look in Blendon there is water, water, water. And dirt roads. So I would speak in support of that.

And just quickly if I can address Joe there, on the special assessment part of it, Blendon does have drains that are paid at large. So in a project like this, how do we go about getting Blendon to maybe accept some of that burden of that cost?

WATER RESOURCES COMM. JOE BUSH: That's -- that's a discussion we can have when we get more of the process done, see what that cost looks like.

BOARD CHAIRMAN RICH VANDER KLOK: Because that would not be in the scope of the Board of Determination at

this point. 1 2 WATER RESOURCES COMM. JOE BUSH: Right. But that's definitely a conversation I have with everyone of the 17 3 4 townships I work with, I feel, like what can you guys help 5 with. 6 MR. GREG GOLEMBIEWSKI: Thanks for your time this 7 morning. 8 BOARD CHAIRMAN RICH VANDER KLOK: Thank you. 9 think everyone has spoken. 10 So Jerry? 11 OTTAWA COUNTY ROAD COMM. JERRY OLMAN: Jerry Olman, 12 Ottawa County Road Commission. I just have a question for 13 Paul, I quess. 14 Based on your presentation, is it your opinion that 15 the culvert that's failing at the airstrip is the bulk of the 16 problem based on your photos? I didn't see any scour at the Bingham Street crossing. It's possible the Van Buren Street 17 18 culverts could be too small. 19 Do you think they are too small or is it just a 2.0 combination of the failing culvert at the airstrip? 2.1 ENGINEER PAUL FORTON: I think it's a combination 22 of several things. And I want to take this minute to talk 23 about something I didn't mention in the presentation, and 24 I'll be brief.

But certainly that concrete culvert is a large

25

portion of the problem. When you see high water marks and mud lines that high in the open channel upstream of that but not downstream of that, that's a red flag. So certainly in looking at that crossing, if a project is found necessary, that's the first place I'll look. How much water comes to that point and how big does that culvert need to be.

2.0

The second issue that's been brought up repeatedly is Blendon Township is flat. So if we do a project and replace the culverts and they're properly sized, the topography of the land will only carry so much water. So we could spend this money and help that two- to three- to four-inch rain carry that on through.

I always pick on Louisiana because it's easy. If you build a city below the ocean, it will have a problem. So if we get a six-inch rain in this watershed after we've potentially improved it, you could still have a problem. I'm not going to lie, guys. I'm not going to pull the fleece over anybody's eyes.

You can upsize culverts, but at that point once the culverts are big enough what takes control is the slope of the stream. And you can only pitch it so much before you hit the Avink to carry that water away.

So I guess to answer your question, Jerry, more specifically, yes, I think that's a critical issue. Not only is the pipe itself small, but when you tip the end of the

barrel down below the stream bed, you've just cut the 1 2 capacity in half. So that's definitely a source of the 3 problems that we're seeing out there and it might be the silver bullet. 4 5 But it won't address some of the issues that Eric 6 mentioned about taking that water, maybe more efficiently or 7 how it was setup years ago when the farmers dug their 8 drainage districts and their ditches, you add some homes and 9 trees start filling them in and things don't flow as 10 efficiently. 11 So I think there is areas very easily to optimize 12 what you're mentioning. And then also I believe it was 13 Mr. Kamps mentioned that we got issues that the water can't 14 even get through it. And it is flat as a pancake. And 15 anything that is there as a roadside ditch there is trees in those too that block the flow. 16 17

So, yes, a long way of saying that is definitely a part of the problem.

BOARD CHAIRMAN RICH VANDER KLOK: Okay, thank you, Paul.

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I'm going to close the public portion of our meeting and then I think I will ask Ken and Larry for comments that they'd like to make, or any observations.

MR. CAREY KAMPS: Mr. Chair, may I say one thing, yet? I know I'm past.

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BOARD CHAIRMAN RICH VANDER KLOK: If it's something
 1
 2.
    new that hasn't been said.
 3
               MR. CAREY KAMPS:
                                 It's in regards to that airstrip.
 4
               THE REPORTER:
                              I need your name again.
 5
               BOARD CHAIRMAN RICH VANDER KLOK: Your name and
 6
    address.
 7
               MR. CAREY KAMPS:
                                 Carey Kamps. And I spent a lot
 8
    of time out there by that airstrip. I worked my horses out
9
     there. And that, I believe that's a 48-inch tile.
10
               And I agree with you, they're tipped, okay.
11
     it's still carrying the water because the Bingham Street is
12
    plugged.
13
               ENGINEER PAUL FORTON: Okay. Which Bingham is
14
    downstream of the -- so, yep. If there is no head
15
    differential or water elevation surface difference between
16
     the upstream side and the downstream side, then it's not the
17
     culvert, it's the ditch. And that's the game that we play in
18
    design is what controls, culverts or slopes?
19
               BOARD SECRETARY KEN SOUTER: How long is that
2.0
     48-inch culvert? How long is that underneath that airstrip?
2.1
               ENGINEER PAUL FORTON: It's fairly long. You're
22
     talking about a hundred feet, maybe even more.
23
               BOARD CHAIRMAN RICH VANDER KLOK: Okay. Anything
    more? Ken or Larry?
24
25
               BOARD MEMBER LARRY BRUURSEMA:
                                              I don't think so.
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think it's been pretty well covered. I think there is a big
 1
 2
    problem out there.
 3
               BOARD SECRETARY KEN SOUTER:
                                            This is not a
 4
     stranger. When I worked for the road commission, this area
 5
    has had problems for years. And it's flat, and they need an
 6
     outlet. I am in favor of doing something.
 7
               I feel sorry for the people that can't get the
 8
     water to it, so that, those areas should be looked at too.
9
               BOARD CHAIRMAN RICH VANDER KLOK: Sure.
10
               BOARD SECRETARY KEN SOUTER:
                                            If you're ready, I'd
11
     make a motion that the maintenance and improvement of the Hop
12
     Drain is necessary and conducive to public health,
     convenience and welfare.
13
14
               BOARD CHAIRMAN RICH VANDER KLOK: And I will
15
     support that.
16
               Motion is made and supported. Any other
     discussion?
17
18
               BOARD MEMBER LARRY BRUURSEMA:
                                              No.
19
               BOARD CHAIRMAN RICH VANDER KLOK: Ken, anything
2.0
     else?
2.1
               BOARD SECRETARY KEN SOUTER:
22
               BOARD CHAIRMAN RICH VANDER KLOK: Okay, all those
23
     in favor, signify by saying aye.
2.4
               BOARD SECRETARY KEN SOUTER:
                                            Aye.
25
               BOARD CHAIRMAN RICH VANDER KLOK: Aye.
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1	BOARD MEMBER LARRY BRUURSEMA: Aye.
2	BOARD CHAIRMAN RICH VANDER KLOK: That is carried.
3	And so now the next decision that we as a Board of
4	Determination need to make is for the addition or deletion
5	and the boundary lines that Paul showed us in his
6	presentation.
7	Any comments about that or is there a motion?
8	BOARD SECRETARY KEN SOUTER: No. I'd like to
9	comment on it. I'm kind of impressed that we have that kind
10	of finite detail. We always have these problems on drains
11	where it's like, hey, Joe's drainage goes into it, but Pete's
12	doesn't.
13	And if we've got this kind of data, that's
14	wonderful. I really we've always had this problem with
15	drain maintenance.
16	BOARD CHAIRMAN RICH VANDER KLOK: Anything else on
17	that?
18	Then I would make the motion that the addition of
19	lands as recommended by the engineer will will more
20	accurately define the boundaries of the land benefited by the
21	Hop Drain, and that such additions or deletions is just and
22	equitable.
23	BOARD SECRETARY KEN SOUTER: I'll second it.
24	BOARD CHAIRMAN RICH VANDER KLOK: Any other
25	comments?

1	Moved and seconded.
2	All those in favor, say aye.
3	BOARD SECRETARY KEN SOUTER: Aye.
4	BOARD CHAIRMAN RICH VANDER KLOK: Aye.
5	BOARD MEMBER LARRY BRUURSEMA: Aye.
6	BOARD CHAIRMAN RICH VANDER KLOK: That's carried.
7	I think in the motion let me just go back a
8	moment.
9	I think when I made that motion that the addition
10	and/or deletions, did I say that in the original
11	BOARD MEMBER LARRY BRUURSEMA: Yes, you did, in the
12	motion.
13	BOARD CHAIRMAN RICH VANDER KLOK: I just wanted to
14	be sure that both of those things are included.
15	BOARD MEMBER LARRY BRUURSEMA: I just want to know
16	if everybody understands that, what we just did.
17	UNKNOWN SPEAKER: Repeat it.
18	BOARD MEMBER LARRY BRUURSEMA: Does everyone
19	understand it?
20	BOARD CHAIRMAN RICH VANDER KLOK: Well I think
21	BOARD MEMBER LARRY BRUURSEMA: The district has
22	changed somewhat.
23	BOARD CHAIRMAN RICH VANDER KLOK: And you all saw
24	the map of where the proposed changes are going to be, so you
25	understand that. Because that was pretty clear in the

presentation.

2.0

And now what happens, these -- the Board of

Determination has made their decision, and now of course it

goes to the Water Resources Commissioner.

I'm going to ask Joe if he has any comments that he wants to make about that at this point.

WATER RESOURCES COMM. JOE BUSH: I just want to say again thanks for everyone's time this morning to be here at 10 o'clock and to sit through and learn some of the process.

One of my multiple parts to this job, it's one of my funner parts. I get to meet people and hear different concerns that I'm either aware of or not aware of.

Also this day, you have ten days to appeal today's Board of Determination if you feel it necessary to do that through Probate Court, not through the county, it's through probate but you can appeal the decision, or the Board of Determination, just, I throw it out there for the court reporter to pick up on so people understand they can do that, if you don't feel that it's a necessity.

But be sure to always call us, contact us. You've got my phone number up there. We can hand out business cards.

Paul Forton is always available. Spicer, they're working across the state and other states on drainage.

That's their number one thing is water management, so that's

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1
     why we hire Spicer. There is a lot of great firms out there,
 2
     we use multiple firms but Spicer is definitely a good firm and
     we trust that he'll be working with me and going in the right
 3
 4
     direction.
               So thank you again for coming.
 5
 6
               BOARD CHAIRMAN RICH VANDER KLOK:
                                                   Thank you, Joe.
 7
               I would declare that the meeting is adjourned.
 8
               Thanks.
 9
               (Board of Determination adjourned at 11:17 a.m.)
10
11
12
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2.0
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1	CERTIFICATION OF COURT REPORTER AND NOTARY PUBLIC
2	
3	
4	STATE OF MICHIGAN )
5	) SS
6	COUNTY OF MUSKEGON )
7	
8	I certify that this transcript, consisting of 60
9	pages, is a complete, true and correct record of the BOARD OF
10	DETERMINATION - HOP DRAIN held on November 19, 2019.
11	
12	
13	
14	DATE: November 27, 2019
15	Mayoue Cours
16	
17	MARJORIE A. COVEY, CSR-2616 141 East Michigan Avenue, Suite 206
18	Kalamazoo, MI 49007 1.800.878.8750
19	Notary Public Expires: October 14, 2021, Muskegon
20	County, Michigan/Acting in the State of Michigan.
21	
22	
23	
24	
25	

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