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1 JUDGE SLAVIN: All right. Good evening,
2 ladies and gentlemen. Welcome back. I call out
3 of recess Lee County Zoning Officer's Petition
4 -- Steward Creek Solar's Petition 20 P 1555 for
5 Special Use.

6 We have been in recess since last Thursday
7 evening, and we'll pick it up again here.

8 A couple things. For the record, there
9 are 22 people here in the Old Lee County
10 Courthouse, main -- former main courtroom.

11 Among those present are members of the
12 Zoning Board of Appeals: Mr. Forster,
13 Mr. Hughes, Mr. Bothe, Mr. Pratt; and Mr. Meyer
14 on Zoom. Mr. Buhrow did not return from our
15 recess.

16 Ms. Kennedy is here for the Petitioner.
17 The honorable Charlie Boonstra, the honorable
18 Dee Duffy are present, as is the IT staff,
19 including Alice Henkel. The Petitioner's here
20 with various representatives and their attorney,
21 Ms. Kennedy.

22 And, Ms. Kennedy, the ball is still in
23 your court. You may continue.

24 MS. KENNEDY: Thank you, Judge. I'd like

1 to call our next witness, Tom Huddleston.

2 JUDGE SLAVIN: Mr. Huddleston, want to
3 step up somewhere here and raise your right
4 hand, please.

5 (Tom Huddleston was duly sworn.)

6 JUDGE SLAVIN: Have a seat right there,
7 please.

8 THE WITNESS: May I take my mask off, Your
9 Honor?

10 THE COURT: Yes, you certainly may,
11 whatever makes you comfortable, but I'm going to
12 get further away from you.

13 THE WITNESS: That would be fine.

14 MS. KENNEDY: May I inquire, Your Honor?

15 JUDGE SLAVIN: You may.

16 TOM HUDDLESTON,
17 having been duly sworn, was examined and
18 testified as follows:

19 DIRECT EXAMINATION

20 BY MS. KENNEDY:

21 Q. Can you state your name and spell it for the
22 record, please.

23 A. Yes, ma'am. Tom Huddleston. Last name is
24 H-U-D-D-L-E-S-T-O-N.

1 Q. And how are you employed?

2 A. I'm self-employed with Huddleston McBride
3 Drainage Company.

4 Q. And what is your job title there?

5 A. I'm partners in a group of drainage companies.

6 Q. And how long has Huddleston McBride been in
7 business?

8 A. We actually operate four different companies:
9 Huddleston McBride, Coopriider Drainage Company,
10 Countryside Drainage Company, and Messer Tile
11 Services. Messer Tile Services and Coopriider
12 have been in business for over 70 years.
13 Huddleston McBride has been in business and I
14 have operated the company for 47 years.

15 Q. Do you have any other relevant work experience
16 in drainage?

17 A. Yes. We do a lot of consulting work. We do
18 expert witness work. We do a lot of solar. We
19 do highway edge drain. We do about anything
20 that has to do with subsurface drainage.

21 Q. And when you say you're familiar with solar,
22 can you tell your experience in that realm?

23 A. Yes, ma'am. We -- we were involved with the
24 AIMA, which is the Illinois Impact Mitigation

1 Agreement. We testified and we made comments.

2 We also met with many counties, also
3 professional agencies such as Natural Resource
4 Conservation Service, the Land Improvement
5 Contractors Association, NRCS, and other
6 municipalities in helping to set up ordinances
7 and rules for -- to maintain prime farmland in
8 solar and wind.

9 Q. And when you say the AIMA agreement, is that
10 the agreement that the Illinois Department of
11 Agriculture requires a developer to enter into
12 prior to developing a solar energy system?

13 A. Yes, ma'am.

14 Q. And would you agree that one of the primary
15 goals of the AIMA is to address drainage issues
16 and preserve drainage?

17 A. Absolutely.

18 Q. You testified that you sometimes work as an
19 expert witness for solar farms. Can you expound
20 on that a little bit more?

21 A. Yes, ma'am. We have -- we have testified in
22 many zoning hearings on agricultural drainage
23 and how to maintain drainage from the lands of
24 others, legal mutual drains, and we have also

1 testified with municipalities doing the same.

2 Q. And you're presumably paid to testify?

3 A. Yes, ma'am.

4 Q. Are you ever paid to testify to exactly what
5 the company wants you to testify to?

6 A. I'm not sure I understand that question.

7 Q. Meaning, if the company wants you to say, Hey,
8 there's no drainage issues, would you say that?

9 A. No, ma'am.

10 Q. Would you base it on your own investigation and
11 conclusions?

12 A. Yes, ma'am.

13 Q. Are you familiar with Steward Creek Solar, LLC?

14 A. Yes, ma'am.

15 Q. And how so?

16 A. I was approached about, I think it was four or
17 five months ago by the company to look over the
18 project and write a belief on what our opinion
19 was on drainage and to consult on what measures
20 would be used to be able to maintain the prime
21 farmland aspects of the property.

22 Q. And have you had an opportunity to review the
23 petition and the application for Steward Creek
24 Solar?

1 A. Just very briefly.

2 Q. And did you perform an investigation of the
3 site?

4 A. I have been across the sites. I have done some
5 reconnaissance, but I haven't done any
6 site-intensive or any preliminary evaluation
7 yet.

8 Q. What, if anything, can you tell me about the
9 surrounding areas to the project?

10 A. It's predominately farmland. It's an area
11 we're real familiar with. It's been farmland
12 for -- since the late 18- -- mid- to late 1800s.
13 It has a lot of drainage. It has a lot of early
14 development. It's very mature, great farmland.

15 Q. And are you aware of the size of this proposed
16 project?

17 A. Yes, ma'am.

18 Q. And you understand it to be 5,000 acres in
19 size?

20 A. Yes, ma'am.

21 Q. In your experience, do you have any concerns
22 specifically related to drainage about taking
23 acres out of row crop production to use for a
24 solar energy system?

1 A. No, ma'am, I do not.

2 Q. And why is that?

3 A. Well, I think that there's methods and
4 procedures to preserve drainage and preserve the
5 prime farmland aspects of the properties so that
6 when it does come out of solar and is
7 decommissioned, it can go right back into
8 farming.

9 Q. And the lease agreement for this project is 35
10 years; is that correct?

11 A. Yes, ma'am.

12 Q. And so do you have an opinion as to whether
13 after this 35-year period whether the drainage
14 system will be improved within the project
15 footprint?

16 A. Yes, ma'am, it will be.

17 Q. And why is that?

18 A. Why would the drainage be improved?

19 Q. Correct.

20 A. Well, in my presentation I'll be able to
21 explain exactly how we do evaluations and how we
22 rebuild drainage systems so that we can warranty
23 them for the 35-year period.

24 Q. Mr. Huddleston, are you familiar with HEL

1 ground, or highly erodible land?

2 A. Yes, ma'am.

3 Q. Do you have any concerns about siting a solar
4 energy system on this type of ground?

5 A. No, ma'am, I do not, because this land will not
6 be tilled. Once it's in solar, it will be
7 seeded and sowed to grasses, which will
8 eliminate the surface erosion.

9 Q. I think at this time -- well, let me back up.

10 It's my understanding that you prepared a
11 PowerPoint presentation based upon your studies;
12 is that correct?

13 A. Yes, ma'am.

14 MS. KENNEDY: Alice, can you pull it up on
15 the screen, please?

16 Q. (By Ms. Kennedy:) Mr. Huddleston, looking up
17 at this screen, is this your PowerPoint
18 presentation?

19 A. Yes, ma'am.

20 Q. Please proceed.

21 A. Thank you.

22 We have -- our company has testified in
23 numerous occasions and added and contributed to
24 the Agricultural Impact Mitigation Agreement,

1 which is a law in the state of Illinois. It
2 requires certain activities to take place
3 basically in renewable energy, whether it be
4 wind and/or solar.

5 The -- I think all agencies and all
6 reviewers will concur that the primary reason
7 for this is to protect what we consider -- all
8 consider one of Illinois' most precious
9 resources, and that is prime farmland.

10 So I have a short presentation to show
11 some methodology on how we intend to do that.

12 Next slide, please.

13 So we are traditionalists pretty much when
14 it comes to farm drainage. Before we go into
15 any field to design or to modify drainage
16 systems, it's important for us to understand the
17 early development of the farmland and the
18 history behind the actual draining of these
19 lands.

20 In Alto and Willow Creek farm regions,
21 farmers settled these lands back in the 1800s
22 to -- back in the mid-1800s to about 1890.
23 Farmers were very diligent and worked
24 cooperatively in turning what we considered at

1 that time natural native wet prairie land into
2 fertile farmland, and, of course, that required
3 a lot of intensive work and cooperation in
4 subsurface and surface drainage.

5 Early farmers cooperatively built drainage
6 systems to develop the land for farming. They
7 first started by maintaining existing natural
8 native channels and rivers. They then moved
9 into digging canals and drainage ditches as
10 primary outfalls. Next to improved surface
11 drainage within the regions, they started to cut
12 in swales and grass waterways to convey water to
13 the open water courses. They then built large
14 truck mains --

15 JUDGE SLAVIN: Excuse me a minute.

16 Sir, if you want to come in, that's great.
17 But I prefer if you stand there at the door, if
18 you'd have a mask, please.

19 AUDIENCE MEMBER: I'm just working
20 security.

21 JUDGE SLAVIN: Please, thank you.

22 THE WITNESS: Thank you, Judge.

23 JUDGE SLAVIN: Sorry.

24 THE WITNESS: That's okay.

1 They then built large main trunk lines and
2 district mains that ran reasonably across the
3 many farms. Next they built local collection
4 systems, which are feeders of laterals within
5 individual farms that outlet into these systems.
6 They then improved roadways for transportation,
7 along with the inception of guidelines. These
8 basic principles were the beginning of what we
9 now call Illinois prime farmland.

10 Next slide, please. Thank you.

11 Later, in the mid-1900s, professional
12 drainage contractors and engineers began to
13 improve and modify drainage systems, which
14 stabilized thousands of acres of new farmland.
15 They created new stable conditions and higher
16 crop yields. This was actually the beginning of
17 precision farming, and motivated new types of
18 nutrient input systems and hybrid seeds.

19 Drain tile systems are basically clay
20 drain tiles, usually in 1-foot sections that are
21 butted against each other. The gap is sometimes
22 raised by small tins, and those tins gap the
23 drain tile ever so lightly so that water can get
24 into the drain tile but sediment cannot.

1 The drain tiles are then installed at a
2 pitch or a grade so that when the waters free
3 themselves up from the void within the soil
4 structures, they settle by gravity into the
5 drain tiles, and then convey down into the main
6 lines, the sub main, then the rivers and
7 channels down below.

8 There's several advantages to subsurface
9 drainage. They allow the farmers to be able to
10 till the land in the spring at a much earlier
11 date. It warms the soil much quicker for
12 earlier germination. It allows the crop to grow
13 a much deeper root structure. It allows the
14 entire farm to drain very consistently so that
15 the wetter soils drain at the same time as the
16 more adjacent mineral soils; therefore, the
17 farmers can get in much earlier and they can
18 harvest much later, which extends the growing
19 system.

20 Next slide, please.

21 Today's drainage technology is very much
22 different. We have started to abandon some of
23 the older systems and put more modified systems
24 in. Today's drainage, tillage applications,

1 nutrient inputs and hybrid seeds have increased
2 America farmland, including Lee County, to be
3 some of the best of the world.

4 Today's drainage systems include a more
5 complete approach to drainage. We now install
6 pattern systems, which are drain tiles that are
7 installed on either 40- to 70-foot centers.
8 They are usually small-diameter polyethylene
9 pipes that are plowed in and then we trench in
10 with open trenchers larger main lines.

11 There are also -- on higher ground, more
12 minimal soils, we're still putting in
13 herringbone or localized systems, such as the
14 illustration. We sometimes run random systems
15 to large areas of the field to intercept hill
16 seepage and other random flows.

17 Next slide, please.

18 This slide includes actually one of the
19 farms in Alto Township where we would start the
20 evaluation by what we call a preliminary
21 drainage evaluation, which is necessary to
22 consider what drainage elements need to be
23 preserved and modified.

24 We first looked at surface drainage.

1 Those are areas where surface waters convey
2 stormwater flows off of surface. We then look
3 at and identify what we call legal mutual
4 drains. Those are main lines that run through
5 the farm and actually drain to the lands of
6 others. Another term for these are legal mutual
7 drains; meaning that they are covered under
8 Illinois Drainage Code to protect them.

9 Then we look at the onsite collection
10 system, which are made up of feeders of high
11 levels to small-diameter drain tiles. These
12 tiles have been put in over the last hundred
13 years and function in different manners
14 throughout the farm.

15 Next slide, please.

16 After the -- after a preliminary
17 evaluation, we then move into what we call a
18 site-intensive investigation. This is an
19 example of one. This happens to be a farm right
20 south of the Oasis on I-88 in DeKalb. I don't
21 know if you all have noticed, but there's a
22 large commercial complex of 2,000 acres, which
23 we are just completing all of the work in this
24 area.

1 So this particular farm is one of the
2 million-square-foot warehouses that's going to
3 be constructed. So therefore, in accordance
4 with DeKalb's Ordinance, we're required to
5 locate all the drain tiles within the site.
6 This particular site/farm had 57,000 feet of
7 drain tile that ranged anywhere from 15 inch
8 down to 3 inch in size.

9 Next slide, please.

10 So the intensive survey actually starts by
11 our team modeling the site to depict which soils
12 would not be able to farm without subsurface
13 drainage. We then cut slit trenches across
14 these areas. When we locate the drain tiles, we
15 either hand probe them or we insert tracer
16 cables up the drain tiles, where we can
17 accurately stake them on the surface.

18 After we stake the drain tiles and we
19 repair the cuts, we then survey everything with
20 a tremble subscription system in centimeter
21 accuracy so that we know exactly where all the
22 drain tiles are. Then there's logs also on the
23 map that includes the size of the drain tile,
24 the type of the material the drain tile was

1 constructed of, the quality of the drain tile,
2 the flow rate, the amount of siltation, and the
3 classification, whether it's a main, sub main,
4 or lateral.

5 And, again, careful emphasis is given to
6 drain tiles which are regional and that we would
7 consider legal mutual drains that travel through
8 the lands of many and benefit other landowners.
9 If you look at the slide in the lower left-hand
10 corner, there's several tiles that extend in
11 upper lands. So we have to reroute those drain
12 tiles so that the upper landowners will continue
13 to enjoy the benefit of those systems.

14 Next slide, please.

15 After we finish the intensive survey, all
16 of the drain tiles are reconstructed and
17 modified so that we can warranty them for a
18 35-year period. If you remember, these drain
19 tiles were put in back in the mid-1800s and they
20 are clay material that had no ASTM or material
21 warranty at that time. So, therefore, we have
22 to make sure that those drain tiles stay intact
23 for the next 35 years. It's not easy to get
24 into a solar farm to repair tiles or lay

1 additional tiles.

2 So therefore, we reconstruct all the drain
3 tiles with polyethylene dual-wall perforated
4 pipe. In some cases we're able to deepen the
5 drain tiles. In some cases we're able to
6 enlarge the drain tile if the other landowners
7 have an issue with needing extra capacity. And
8 then we place all the lateral drain tiles as
9 well through the property.

10 We then survey and stake the drain tiles,
11 and we make sure that the geometry of the new
12 drain tile system is not in conflict with the
13 solar post operation. So we want to be sure
14 that when the solar posts are driven, that the
15 geometry is going to be not on the drain tile.

16 These drain tiles in many cases are
17 replaced by what we call like-kind procedures,
18 where we actually take the old tile out and
19 insert the new tile. That gives us the ability
20 to be able to pick up whatever feeder tiles may
21 have been missed in the investigation. So if we
22 do find a feeder lateral, we turn around and
23 replace that lateral and incorporate that into
24 the main line as well.

1 So, therefore, it's our opinion that by
2 following these best management practices --
3 including existing drain tile modification,
4 planning deep root stable vegetation, and
5 implementing a noxious weed control program --
6 that we will be able to assure that when
7 solar -- the solar farm is decommissioned, that
8 the prime farmland aspects will remain for
9 future generations.

10 Thank you. That concludes my
11 presentation.

12 Q. (By Ms. Kennedy:) Just a few follow-up
13 questions.

14 How do you propose that we avoid certain
15 construction issues --

16 JUDGE SLAVIN: Ms. Kennedy, can I get you
17 to --

18 MS. KENNEDY: Sorry, Judge.

19 Q. (By Ms. Kennedy:) How can we be sure that
20 during construction the company or its agents
21 won't hit drainage tiles?

22 A. So we have a very accurate map of the drain
23 tiles that have been GPS'd. We hand that GPS
24 map system that we prepare to the developer's

1 engineers. The developer then designs his solar
2 post layout, and he does the best he can to
3 avoid the drain tiles.

4 Now, these solar posts are on an average
5 of 15-foot centers in a grid, so it's not
6 possible in all cases to alleviate all drain
7 tiles. So, therefore, we have all the piles
8 staked accurately in the field before we
9 actually rebuild the drain tiles. So when we
10 rebuild the drain -- the drainage by like-kind
11 procedures, if the drain tile conflicts with the
12 solar posts, we would warp the drain tile off of
13 that location that they are assured there are
14 not any conflicts.

15 Q. Do you have any concerns about taking some of
16 our best soils out of production for a solar
17 energy system?

18 A. I actually do not, and I can explain. I think
19 that these best management practices, where we
20 put in these state-of-the-art systems, where we
21 repair older drain tiles, where we plant
22 deep-rooted grasses, native grasses, where we
23 control the weeds, where we completely eliminate
24 soil erosion, where we actually decrease runoff,

1 that these benefits actually allow the land to
2 pause or rest for a period of time to build up
3 the nutrients, to build up the soil structures,
4 and for the drainage to perfect.

5 So therefore, when the posts are pulled,
6 then the ground is tilled and then put back into
7 agriculture in most probably a better state than
8 it is before it goes in.

9 Q. And so is it a fair statement that the soil
10 integrity will also improve over the 35-year
11 period?

12 A. Yes, it will. The root structures actually
13 help break the ground up. It alleviates some
14 compaction that a lot of our land is suffering
15 from. It also adds a lot of organic nutrients
16 to the soils as well.

17 MS. KENNEDY: I have nothing further, Your
18 Honor.

19 JUDGE SLAVIN: All right. Turning then
20 to, Mr. Boonstra, questions of this witness?

21 MR. BOONSTRA: No, Judge. Thank you.

22 JUDGE SLAVIN: Ms. Duffy?

23 MS. DUFFY: No.

24 JUDGE SLAVIN: How about you,

1 Mr. Chairman? Mr. Forster?

2 MR. FORSTER: No.

3 JUDGE SLAVIN: Mr. Bothe?

4 MR. BOTHE: No.

5 JUDGE SLAVIN: Mr. Pratt?

6 MR. PRATT: Yes, I have a few.

7 EXAMINATION

8 BY MR. PRATT:

9 Q. See if I can do this right, not shuffle my
10 papers.

11 So this is quite a project you're talking
12 about, to go in and -- are you saying that
13 you're going to replace every tile that's in
14 5,000 acres?

15 A. It wouldn't be every tile. Some of these farms
16 have new tile in them at the time that we could
17 warranty. Like, some of them have some plastic
18 drain tile systems that were put in correctly
19 and they will withhold the next 35 years. But
20 most farms, the biggest percentage would be clay
21 drain tile, and we would replace those.

22 Q. You're saying though that even plastic tile
23 that would conflict with posts will be replaced?

24 A. Yes, sir. If it does conflict with a post,

1 then yes, it would be replaced.

2 Q. So do you have any cost estimate of this that
3 you have provided to the company?

4 A. We have done -- we have completed many of these
5 projects. I have done around 50 small community
6 solar projects that are 20 to 45 acres. We're
7 working on several large systems. I'm working
8 on a thousand-acre complete system in Champaign
9 where we're actually grid tiling the entire
10 site. It's a very flat site.

11 So the numbers are a little bit different
12 than what new drain tile construction is because
13 of the logistics that are required, the location
14 and so forth. So, yes, we have cost estimates.

15 Q. You're surely going to miss tile. I can't
16 imagine that you'll find every tile.

17 JUDGE SLAVIN: Is that a question.

18 MR. PRATT: It will be.

19 Q. (By Mr. Pratt:) So you made a comment that you
20 can't go back in and fix in a solar farm.
21 What's the alternative? And -- how are you
22 going to solve that problem?

23 A. Well, there's one way we're going to mitigate
24 that. And you're right, there are 3- and 4-inch

1 feeder tiles on top of hills sometimes where you
2 never believed they were there, and they have a
3 function.

4 So by implementing this like-kind
5 replacement, where we actually take the old tile
6 out, if we then run across these laterals
7 because they're T'd in those lines, and we would
8 find them and be able to replace them.

9 Now, we haven't -- in any of our projects,
10 we haven't missed tile yet. But if we do miss
11 tiles, then we can go in with mini excavators to
12 be able to reconnect them, but they would most
13 likely be a very small feeder tile, if that was
14 the case.

15 Q. So you say you're going to replace the clay
16 tile that's in the ground. How do you get that
17 out of the ground? I mean --

18 A. Yes, sir. We take small excavators, and we
19 actually cut the top out of the drain tile with
20 the excavators, and then the laborer that's in
21 the trench actually flips the bottom section of
22 the drain tile out, and then that leaves a small
23 cradle in the earth from the original drain
24 tile. So then we stick the new polyethylene

1 pipe in that same cradle. But most importantly,
2 what it does is, it allows us very easily to be
3 able to see a T connection or a lateral
4 connection.

5 Q. So this is above and beyond what's requested
6 for in the AIMA agreement, correct?

7 A. Absolutely, yes, sir.

8 Q. Did the -- is there any cost to the landowner
9 for this?

10 A. I can't answer that question.

11 Q. Okay. So let's talk about the runoff. You
12 mentioned that you think there will be less?

13 A. Yes, sir.

14 Q. The panels are going to concentrate the water.
15 You don't think that will create more runoff?

16 A. No, sir. The water then falls on the ground.
17 Of course, the ground is not -- is not bare
18 land, as it would be in farming. It's a very
19 rigorous prairie plant that has deep generation
20 of roots to improve permeability. So the water
21 is not able to run off the land as quickly
22 because the runoff coefficient is very low, and
23 then the land would soak -- the water would soak
24 into the ground because the land is more

1 perforated because the root structure from the
2 prairie plants, and then the drain tiles
3 actually de-water the storm structure during an
4 intermittent storm so that there's plenty of
5 storage within the soil structure to hold the
6 water and release it slowly through the drain
7 tiles.

8 Q. But the drain tiles are there already --

9 A. Yes, sir, correct.

10 Q. -- before the project was started?

11 A. Yes, sir.

12 Q. You're not going to add tile?

13 A. In some cases we have added tile in some areas,
14 which you're right, but remember, we're taking
15 all the compaction out of the soil, we're
16 improving the permeability, so the tiles will
17 run more efficiently.

18 Some of the tiles we actually often
19 replace as well will be drain tiles that are in
20 very poor condition. They have silt or dirt in
21 them, may be completely broken down. So we'll
22 be adding new tile or modifying old tile that
23 need new characteristics.

24 Q. There's quite a few creeks in this property.

1 Are you going to do anything to the creeks?

2 A. No, sir. We don't have any plans to dredge any
3 creeks.

4 Q. Not remove any tree lines in the creeks or
5 anything?

6 A. Not to my knowledge, no, sir.

7 Q. That wouldn't be your recommendation?

8 A. In some cases, some drainage channels need
9 maintenance. I haven't looked at the drainage
10 channels within this watershed yet, but as you
11 well know, all farm ditches need to be cleaned
12 and maintained from time to time.

13 Now, I can tell you that the solar farms
14 will not add nearly as much silt to these
15 ditches as the farmland does. So the ditches
16 will have a longer life to them.

17 MR. PRATT: No further questions, Judge.

18 JUDGE SLAVIN: All right. Mr. Meyer?

19 MR. MEYER: No questions.

20 JUDGE SLAVIN: All right. Interested
21 parties, those in the courtroom --

22 MR. PRATT: Judge.

23 JUDGE SLAVIN: Did I miss somebody? I'm
24 sorry, Mr. Hughes. I'm sorry. I thought I went

1 boom, boom, boom.

2 MR. HUGHES: No, that's fine. I have no
3 questions.

4 JUDGE SLAVIN: All right. Sorry.

5 Interested parties in the courtroom, live
6 in the courtroom, by raise of hand, questions of
7 Mr. Huddleston, please.

8 Yes, sir. I see you first. We have got
9 those microphones in the middle. Thank you.
10 And if you'll help us get started with your name
11 and the community you consider yourself living
12 in.

13 MR. HUBER: Jon Huber, J-O-N, H-U-B-E-R.
14 I guess I have a couple, simple questions.

15 JUDGE SLAVIN: Community?

16 MR. HUBER: Steward, rural Steward.

17 JUDGE SLAVIN: Thank you.

18 EXAMINATION

19 BY MR. HUBER:

20 Q. That 60 that I live on, you're familiar with
21 it --

22 A. Yes, sir.

23 Q. -- Tom Hart put waterways in that a year ago.

24 A. Yes, sir.

1 Q. And I cruise around it on my four-wheeler and
2 stuff --

3 A. Yes, sir.

4 Q. -- because I know the farmers that farm it.
5 Those waterways got cut really hard that first
6 spring and then that next summer. Actually,
7 since that --

8 JUDGE SLAVIN: Sir, you're telling him
9 things. You have got to ask him question.

10 Q. (By Mr. Huber:) I was wondering, will the
11 solar panels be in the waterways or will they
12 have the panels on either side of them?

13 A. That one example I showed, the panels actually
14 skip the waterway.

15 So these waterways have to be maintained,
16 just as yours on your farms. They have to be
17 mowed, and they have to be reseeded. Now, I can
18 tell you that the waterways probably won't cut
19 as badly in a solar project as they do a regular
20 farm because of the intensity of surface flow.

21 MR. HUBER: Okay. I guess that's all the
22 questions I have.

23 JUDGE SLAVIN: Okay. Thanks.

24 Anybody else have a question? Yes, sir.

1 MR. LUSZ: Adam Lusz, from near Eldena.

2 EXAMINATION

3 BY MR. LUSZ:

4 Q. So what solar farm or solar systems have you
5 studied for stormwater runoff to base your
6 assessments on?

7 A. Well, we have worked on many of them, and I
8 have been in many hearings with a lot of
9 different hydrology engineers and a lot of
10 experts, and I think the general engineering
11 industry would all tell you that the runoff in
12 prairie grass is much less than bean stubble
13 or --

14 Q. But what -- my question was actually, what
15 solar farms have you studied?

16 A. Champaign is one, uhm --

17 Q. Is it up? You have studied it, like, up and
18 active?

19 A. No.

20 Q. How many active solar farms have you studied?

21 A. No, but there are many studies published on
22 prairie fields and the runoff characteristics of
23 prairie.

24 Q. Correct. So how does solar panels change

1 stormwater runoff on land?

2 A. Well, they don't, actually. I mean, it's the
3 vegetation on the surface that changes the
4 runoff, and so if the surface --

5 Q. How --

6 JUDGE SLAVIN: You're interrupting. You
7 asked him a question. You have got to let him
8 finish.

9 Go ahead.

10 A. So the surface runoff in natural, native
11 prairie grasses would be more retardant than it
12 would be on bare cropland.

13 Q. (By Mr. Lusz:) What about the mowed prairie
14 grass?

15 A. Mowed prairie grass would be the same.
16 Actually, mowing is one of the methods to help
17 control weeds and to help the quality and the
18 density of the prairie grass itself.

19 Q. So am I correct then you have not studied any
20 stormwater runoff of active solar farms in the
21 country?

22 A. I have not personally, no.

23 Q. Are you aware that there's studies out there
24 that show stormwater runoff increases one and a

1 half times --

2 A. No.

3 Q. -- what the standard is?

4 A. No.

5 Q. What recommendations are you making to this
6 company to help manage surface stormwater
7 runoff; not subsurface, but surface stormwater
8 runoff?

9 A. To identify and maintain surface conveyance
10 channels and to skip those channels with solar
11 panels so that they can be maintained.

12 Q. Okay. Are you proposing then that you are
13 installing grid pattern tiling across the entire
14 5,000-acre parcel?

15 A. No, sir.

16 Q. So you're not updating past what is currently
17 there then?

18 A. Well, if there's a pattern system that's
19 already existing and it's clay drain tile and
20 it's in conflict, we would replace it. But most
21 of the parcels that I have looked at are more of
22 a gradient, so we would not be pattern draining
23 those systems.

24 Q. What drainage law governs an SES? So there's

1 agricultural drainage law and there's industrial
2 or commercial drainage law --

3 A. We abide by what's called the Illinois Drainage
4 Code.

5 Q. Are there -- can you elaborate? Are there
6 differences between --

7 A. Yes, sir. Illinois Drainage Code pertains
8 mostly to agricultural interest.

9 Q. And so does that apply to a solar project, an
10 industrial solar project?

11 A. Yes, sir, it does.

12 Q. Are you allowed to change the water flow under
13 that drainage law?

14 A. No, sir, absolutely not.

15 Q. Are you aware that of this 5,000 acres,
16 2,897.14 acres have a PI index, or a
17 productivity index, above 133?

18 A. No, sir, I'm not aware of it.

19 Q. Are you aware that a Class A soil type is a PI
20 index of 133 and above?

21 A. Yes, sir.

22 Q. Do you believe that prime Class A soils should
23 be reserved for food production agriculture use?

24 A. I actually think that all prime farmland should

1 be maintained for its natural resource ability
2 to grow food. I also believe that it's not bad
3 for farmland to rest or pause, to be regenerated
4 by new nutrients and to take it off the working
5 grid for a period of time.

6 Q. Is there gravel roadways that will be installed
7 on this project?

8 A. I can't answer that. I don't know the answer
9 to that.

10 Q. Does gravel change surface water or subsurface
11 drainage?

12 A. Yes, sir, it does.

13 Q. How so?

14 A. Certain gravels are impervious. If they're
15 compacted or -- such as CA6, for example, there
16 would be an impervious state in gravel driveway.

17 Q. Does that impact how you might want to drain
18 that soil?

19 A. No.

20 Q. Does that impact the amount of stormwater
21 runoff that neighboring farms may have from this
22 project?

23 A. It would, although the new condition, which
24 would be prairie plants, overwhelms any

1 additional runoff that a gravel surface way
2 would contribute.

3 Q. You don't have any studies for us as evidence
4 or to back up these claims?

5 A. That's typical civil engineering calculations.

6 Q. So you -- there's no studies though on solar
7 stormwater runoff to reference? It's just
8 engineering?

9 A. I'm sure there are. I'm not prepared to
10 produce one right now.

11 MR. LUSZ: Thank you. That's all I have
12 got.

13 JUDGE SLAVIN: Thank you.

14 Still folks in this room, questions?
15 Raise your hand. I can't -- yes, sir. Purple
16 cap.

17 MR. PRESTEGAARD: Take it off?

18 JUDGE SLAVIN: Absolutely.

19 MR. PRESTEGAARD: Thank you.

20 JUDGE SLAVIN: Get as close to the
21 microphone -- your first instinct is to push it
22 away, and everybody's is.

23 MR. PRESTEGAARD: Oh, no, not mine. Not
24 mine. I got no problem with the microphone,

1 Judge.

2 JUDGE SLAVIN: Name and community, please.

3 MR. PRESTEGAARD: Joel Prestegaard,
4 outside of Lee. I'll have a mile of these
5 around me.

6 EXAMINATION

7 BY MR. PRESTEGAARD:

8 Q. Thank you for your time, first and foremost.
9 Appreciate you being here.

10 A. Yes, sir, thank you.

11 Q. Prairie plants, do you know what kind of
12 plants? Have you been up to speed? Any idea?

13 A. That's a great question. There has been an
14 overwhelming response throughout Illinois and
15 Indiana and Wisconsin to plant deep-rooted,
16 large native prairie plants, which sometimes
17 include big stem -- big blue stem, for example.
18 Those prairie plants grow a root structure that
19 can be 6 to 8 feet in the ground.

20 I have asked these -- this solar developer
21 to consult with some ecologists who can propose
22 some native plants that don't have root
23 structures that get into the drain tiles. So it
24 will be a combination of native plants that have

1 a little lower, little shallower root growth,
2 maybe 24 inches or 20 inches in depth.

3 Q. Okay. Thank you.

4 And with those, I assume that there's a
5 height min- -- or maximum they can reach?
6 That's the problem with natural prairie grasses,
7 is they get too high for solar, correct?

8 A. Yes, sir, that's correct.

9 Q. How do they react to herbicides, such as
10 Roundup and so forth; native grasses?

11 A. You would have to ask the --

12 Q. Fair enough.

13 A. -- contractor that question.

14 Q. HEL ground, thank you for answering that
15 question.

16 A. Sure. Yes, sir.

17 Q. How much of this project is classified as HEL
18 ground?

19 A. I haven't been privy to those private records
20 yet for the landowner, so I'm not sure.

21 Q. No, understandable.

22 I know some of the farm ground personally
23 just because I have lived there my whole life,
24 so I know there is some.

1 You did mention that HEL ground covered in
2 vegetation shouldn't really be an issue, but
3 what -- in your opinion, or better yet, with
4 your profession, what would classify -- what are
5 the factors that classify land that's highly
6 erodible?

7 A. Slope and soil type.

8 Q. Those are the two biggest, right?

9 A. Yes, sir.

10 Q. So without -- what would driving a post every
11 15 foot into highly-erodible ground do during
12 the construction phase, disturbing the soil in
13 such a manner? You said highly-erodible ground
14 is never tilled, correct?

15 JUDGE SLAVIN: Wait a minute.

16 MR. PRESTEGAARD: I'm sorry. That was
17 two.

18 JUDGE SLAVIN: The problem with two is, he
19 doesn't know what to answer --

20 MR. PRESTEGAARD: Nope, my bad.

21 JUDGE SLAVIN: -- and -- well, I'll
22 explain to everybody.

23 -- and when you read the record, you can't
24 tell which question he was asking.

1 MR. PRESTEGAARD: Understood. Thank you.

2 JUDGE SLAVIN: So go ahead, just ask one.

3 Q. (By Mr. Prestegaard:) Let me back up. So
4 they're going -- you're going to go in and tile
5 highly-erodible ground, correct?

6 A. Yes, sir.

7 Q. They're going to put a post in every 15 foot on
8 center?

9 A. Yes, sir.

10 Q. In your opinion, what will that do during the
11 construction phase to the highly-erodible ground
12 in the matter of a large rainfall?

13 A. The posts are actually driven in pneumatically,
14 so there's not any soil disruption at all. So
15 there wouldn't be any bare ground that would be
16 subject to eroding caused by the solar post
17 construction.

18 Q. So the only ground that would really be
19 disturbed would be what you tile through?

20 A. Yes, sir, that's correct.

21 Q. With the -- this seems pretty elementary, but
22 why do we put gutters on houses?

23 A. To convey the water away from the house.

24 Q. And if you don't have them, what happens to the

1 ground beneath the roof structure?

2 A. It becomes saturated.

3 Q. Would there be any channelling if there was a
4 slope?

5 A. For a house that had 4- or 5,000-square feet,
6 yes.

7 Q. How many square feet are proposed in this solar
8 panel project that will have slope?

9 A. I'm not sure how deep the panels are that are
10 being proposed.

11 Q. Okay. Sorry about that.

12 And I do appreciate your work up in
13 DeKalb. You said that was how big of a project?

14 A. Around 2,000 acres and growing.

15 Q. Has your company ever done a 5,000 single-use
16 project before; 5,000-acre, single-use project?

17 A. Yes.

18 Q. Fantastic.

19 Is the topography of DeKalb any different
20 than the topography of Steward Creek?

21 A. There's some farms in Steward Creek that have
22 similar topography. The DeKalb land is pretty
23 flat.

24 Q. Pretty good ground up there -- that's more of a

1 statement. Sorry.

2 A. Pretty flat.

3 Q. I apologize here. I just have a few more
4 questions.

5 Will your tile work increase the value of
6 the current landowners'?

7 A. Yes.

8 Q. Will it increase the value of the parti- --
9 nonparticipating adjacent landowners?

10 A. Yes.

11 Q. And how would that be?

12 A. The legal mutual drains that are the main drain
13 tiles that go through the soil farms are
14 normally pretty old, and they would be -- there
15 would be new tiles so that the upland landowners
16 would have a better tile for discharge.

17 Q. The upland land. What about the ones that live
18 on the downside of all this water?

19 A. We would discharge into the same existing
20 tiles.

21 Under Illinois --

22 JUDGE SLAVIN: Just -- no, no. Just
23 answer the question, please.

24 MR. PRESTEGAARD: Okay.

1 JUDGE SLAVIN: No, that was directed at
2 him.

3 MR. PRESTEGAARD: Oh, I'm sorry. I wasn't
4 looking at you, Judge.

5 Q. (By Mr. Prestegaard:) Making sure I covered --
6 how many acres are -- of this project are
7 currently enrolled in CRP?

8 A. I don't know the answer to that.

9 Q. When you make gravel driveways, you, yourself,
10 your company, what would be the top layer then
11 of gravel that you would use?

12 A. CA6.

13 Q. You said earlier that's one that packs in hard
14 and won't let water permeate; is that correct?

15 A. Correct.

16 MR. PRESTEGAARD: I sure do appreciate
17 your time. Thank you so much for taking my
18 questions.

19 THE WITNESS: Yes, sir, thank you.

20 JUDGE SLAVIN: Anybody else in the
21 courtroom? Yup.

22 And if you'll help us, please start by
23 stating your name and the community in which you
24 consider yourself living.

1 MR. HUSS: Yes. My name is Andrew Huss,
2 and I live outside of Lee, Illinois.

3 JUDGE SLAVIN: You may inquire.

4 EXAMINATION

5 BY MR. HUSS:

6 Q. The mitigation you're talking about, the
7 measures for the negative impacts, if they have
8 negative impacts on surrounding parcels, is this
9 covered through the warranty?

10 A. I'm sorry, could you restate that, please?

11 Q. So if the measures that you put in to mitigate
12 the -- the mitigation measures of the impact to
13 others' land, will your warranty cover the other
14 land?

15 A. The mitigation, which requires vegetation and
16 the rebuilding of the existing drain tiles,
17 would have a positive benefit to adjacent lands.

18 Q. Okay. So for instance, the 95 acres
19 surrounding my house and the runoff were to come
20 onto my property and run towards the building or
21 something, would the warranty cover that coming
22 towards my house or my buildings?

23 A. I'm not sure if there's a warranty in place for
24 that, but the Illinois Drainage Code would

1 certainly dictate that.

2 Q. Okay. Are there any studies on the land that
3 has contained these root systems of the prairie
4 grass and then gone back into crop production
5 after 35 years?

6 A. Yes, sir, there's numerous technical studies
7 about root and prairie plant introduction into
8 farmland.

9 Q. Are there any studies that have followed drain
10 tiles in a utility scale solar field for 35
11 years?

12 A. No, sir.

13 MR. HUSS: No further questions.

14 THE WITNESS: Thank you.

15 JUDGE SLAVIN: Thank you.

16 Any other folks here in the courtroom?

17 Okay. Turning to the Zoomers. Folks, if
18 you don't remember how -- excuse me. If you
19 don't remember how, if you're videoconferencing
20 on Zoom, you go to Participants, I think it's
21 the bottom center of the screen, click on that,
22 and it should show you a drop down list that
23 includes "raise hand." Hit "raise hand," and I
24 will call on you in due course.

1 If you are teleconferencing on Zoom;
2 meaning, you can't see us but you can hear us,
3 leave your phone/cell phone on, but on your
4 dial, hit Star 9, and that should show us your
5 hand, and I'll call on you in due time.

6 Now is the time to indicate if you have
7 got a question. I'll give you ten seconds here
8 to find your way through the technology.

9 Alice, are they all showing on the screen?

10 MS. HENKEL: Yes, and there are no hands.

11 JUDGE SLAVIN: Okay. Very good.

12 Mr. Huddleston, you may step down. Thank you.

13 THE WITNESS: Thank you.

14 JUDGE SLAVIN: And I think now is a good
15 time for a break, until 8 o'clock -- let's make
16 it five after 8, real time, not courtroom time.

17 (A recess was taken at 7:54 p.m.
18 and proceedings resumed at
19 8:05 p.m.)

20 JUDGE SLAVIN: Alrighty. That's Slavin
21 lingo for, Everybody find their seat, please.

22 (Petitioner's Exhibit Number 5
23 marked for identification and
24 admitted into evidence.)

1 JUDGE SLAVIN: While everybody is finding
2 their seat, I will note for the record and for
3 anybody who is keeping track, I have marked
4 Mr. Huddleston's Power -- hard copy of
5 Mr. Huddleston's PowerPoint Petitioner's Number
6 5.

7 (Petitioner's Exhibit Number 6
8 marked for identification.)

9 JUDGE SLAVIN: I have also been handed a
10 one, two, three, four -- five-page proposed
11 exhibit that I have marked Petitioner's Number 6
12 that's entitled "Steward Creek Solar Farm, SCI
13 Engineering, Inc., Since 1978" on the front page
14 to identify it. That's Number 6, but that was
15 not admitted yet; Number 5 is.

16 And, Ms. Kennedy, you may proceed.

17 MS. KENNEDY: Thank you, Judge. I would
18 like to call Scott Billings as the next witness.

19 JUDGE SLAVIN: Raise your right hand,
20 please.

21 (Scott Billings was duly sworn.)

22 JUDGE SLAVIN: Have a seat, and if you
23 want to take off your mask while you're
24 testifying, that's all right with me.

1 THE WITNESS: Sure. Thank you, Your
2 Honor.

3 MS. KENNEDY: May I proceed, Your Honor?

4 JUDGE SLAVIN: You may inquire.

5 DIRECT EXAMINATION

6 BY MS. KENNEDY:

7 Q. Would you state your name and spell it for the
8 record.

9 A. Sure. Scott Billings, B-I-L-L-I-N-G-S.

10 Q. And can you give us a brief summation of your
11 educational history?

12 A. Sure. I have a bachelor's in geography/GIS and
13 a minor in economics from Southern Illinois
14 University in Edwardsville, and I have completed
15 my Master's classroom work in environmental
16 science but have not yet completed my thesis
17 work.

18 Q. And how are you presently employed?

19 A. I am a senior project scientist with SCI
20 Engineering, and I have been there since 2006.

21 Q. And what are your job duties?

22 A. My job duties are, generally, I'm in charge of
23 our natural resource group, so that includes
24 wetlands, delineation, threatened and endangered

1 species surveys, SWPPP preparation, anything and
2 everything that pertains to natural resources in
3 regards to anything from solar farms to
4 subdivisions.

5 Q. And do you have any other work -- relevant work
6 experience outside of SCI?

7 A. An internship with the IEPA right before I
8 started at SCI in 2006.

9 Q. And what is your experience with solar farms?

10 A. We have provided similar services to what I'll
11 explain tonight on several solar farms; one in
12 southern Illinois, one in Missouri, and
13 generally a few others that probably never made
14 it to build, but, yes, so generally same sort of
15 situation as far as natural resources with solar
16 farms themselves.

17 Q. And what is the largest solar farm that you
18 have studied?

19 A. I would say that the largest one was in
20 Missouri, which was right around 3,000 acres.

21 Q. And is this your first time testifying as an
22 expert witness?

23 A. It is. Typically in a lot of these situations,
24 with our due diligence services being on the

1 upfront, we don't get called in to do this too
2 terribly often on many of our projects.

3 Q. Are you familiar with the Steward Creek Solar
4 Project?

5 A. I am.

6 Q. And have you had the occasion to review Steward
7 Creek's application and petition?

8 A. I have reviewed a good chunk of it,
9 particularly those that pertain to what we were
10 being asked to review.

11 Q. And what are those?

12 A. The appendices that include the plant-based
13 weed and vegetation control plan and a few
14 others that are in regards to natural resources.

15 Q. And you are aware that this is a proposed
16 5,000-acre solar farm?

17 A. Yes, ma'am, or more.

18 Q. And what did the company hire you to do?

19 A. We were hired to provide a preliminary desktop
20 assessment of the project area itself, as well
21 as review some of the documents that have been
22 previously prepared.

23 Q. Have you reviewed the Lee County Ordinance as
24 it relates to solar energy systems?

1 A. I have.

2 Q. And in the environmental context, what is a
3 proposed developer required to do?

4 A. Well, as it pertains to anything that we were
5 reviewing, there is a particular section, I
6 think it's around -- under Number 7, entitled,
7 "Endangered Species and Wetlands." Generally it
8 states that the Applicants would need to run the
9 project through the EcoCAT program, which is a
10 threatened and endangered species assessment
11 program administered by the Illinois Department
12 of Natural Resources, as well as identifying the
13 other endangered species or wetland habitat that
14 might be on the site that could be impacted by
15 development.

16 Q. And to the best of your knowledge, has the
17 company consulted with IDNR through the EcoCAT
18 system?

19 A. As far as I know, yes. The EcoCAT, it's my
20 understanding, was submitted to IDNR. It came
21 back clean, and when that happens usually, and
22 in this case, the consultation is terminated.

23 Q. What, if anything, can you tell me about the
24 surrounding area to the project?

1 A. Just based on a desktop assessment, and we did
2 review -- I'm sorry, we did provide a drive-by
3 of the site using the public roads back on
4 September 9th of 2020, it's predominately
5 agriculture. We identified several areas, took
6 photos of several areas where there was water,
7 drainages, a lot of swales that go along with
8 agriculture, as they would in any other
9 location, so -- but overall, our assessment was
10 predominately agriculture.

11 Q. And so the company had already met the
12 threshold requirement initiating its
13 consultation with the IDNR. Do you know why the
14 company retained SCI for this project?

15 A. Well, as in any other project, there are
16 certain loopholes -- or not loopholes, but
17 things you have to do as part of any project;
18 for instance, in regards to wetland water
19 bodies. If there is going to be impacts, there
20 are certain permits that you have to have; for
21 instance, if you impact a jurisdictional wetland
22 or waterbody, you would need to obtain a Section
23 404 permit from the Corps of Engineers and a
24 Section 401 water quality certification from the

1 IEPA.

2 So with that being said, although we have
3 done a desktop analysis, there still is field
4 work that will need to happen as far as that's
5 concerned. Desktop will get you so far, but
6 prior to construction we would assume that the
7 agencies would require field work in that
8 regard. And that's the same, of course, for
9 threatened and species as well.

10 Q. And it's my understanding that you prepared a
11 PowerPoint presentation for tonight?

12 A. That is correct.

13 Q. And is that your PowerPoint presentation on the
14 screen there?

15 A. Yes, ma'am.

16 Q. Please proceed.

17 A. Okay. So the main reason that I wanted to
18 provide this presentation was just to provide an
19 overview of generally what our tasks were and
20 generally what were covered as part of this
21 project.

22 So next slide, please.

23 Just a little bit of background about SCI
24 Engineering and our qualifications. We were

1 started in 1987 primarily as geotechnical
2 engineers, and over the years we have added on
3 several disciplines as we see fit. We have
4 offices in Missouri, Illinois, Texas, and
5 Colorado, and we offer a full suite of
6 engineering services from geotechnical all the
7 way down to natural resources, which is what I'm
8 here to talk about today.

9 Next slide, please.

10 In regards to natural resources, just a
11 rundown generally of what we provide and how
12 we're looking at this particular project.
13 Again, we've done thousands of wetland waterbody
14 delineations, anywhere from North Dakota to
15 Mississippi and everywhere in between, the
16 St. Louis area, north and south.

17 We deal with the permitting aspect of
18 wetland and waterbody impacts, provide
19 mitigation for wetland impacts in the way of
20 design, banking, and monitoring of those sites,
21 and we also deal with the stormwater side of
22 things. So this is the development of SWPPPs
23 and meeting these National Pollutant Discharge
24 Elimination system.

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1 And lastly, we provide threatened and
2 endangered species surveys. This could be
3 anything from bats to birds to cave species, and
4 everything in between again.

5 Next slide, please.

6 Okay. In regards to this project, we were
7 asked just to provide a preliminary assessment
8 of the desktop analysis that was provided, as
9 well as those reports that have been previously
10 provided as part of the application.

11 So as you can see there, we generally
12 covered five different topics, including
13 wetlands and water bodies, wildlife corridors,
14 threatened and endangered species, stormwater
15 management, and vegetation management.

16 Next slide, please.

17 So I'm going to run through each one of
18 these with a couple slides and just provide our
19 general assessment and opinion on several of the
20 matters.

21 In regards to wetlands and waterbodies, so
22 typically, and as the case in this situation as
23 well, most solar farms and larger projects and
24 energy projects in general try to avoid impacts

1 if at all possible.

2 In this particular case, the Applicant
3 looked at the topographic map. We did the same
4 thing, looked at the National Wetland Inventory
5 map and several other aerial photographs, and
6 generally tried to design around those wetland
7 waterbody impacts.

8 So, again, it should be noted that
9 although this is the case, it's more than likely
10 going to be the case that all this must be
11 ground truthed at some point prior to
12 construction. So although we have identified
13 and these impacts are generally being avoided,
14 it would still need to be proved by actually
15 getting on the ground and doing surveys.

16 Next slide, please.

17 Again, just to cover, generally, as I just
18 discussed, everything has to be either confirmed
19 as present or absent on the sites. We would
20 recommend that if there are wetland or waterbody
21 impacts, that those impacts be avoided and
22 things be moved in order to avoid those impacts.
23 Again, just to clarify, impacts can be direct or
24 indirect; it all depends.

1 So many of -- many of these things,
2 drainages, water bodies that we're discussing,
3 some will be jurisdictional, many of them won't.
4 So we would provide an assessment of that before
5 construction.

6 And, again, unavoidable impacts, if
7 necessary, would need to go through the
8 permitting process with the Corps of Engineers
9 and the Illinois Environmental Protection Agency
10 prior to construction.

11 Next slide, please.

12 So during our assessments, we identified
13 several wetlands and water bodies within the
14 study area itself; however, as I stated, the --
15 it appears, based on our review of the site
16 plan, that those wetlands and waterbodies that
17 have been mapped on the desktop analysis would
18 generally be avoided. So there is a pretty good
19 chance that, based on our assessment, the
20 wetlands and waterbodies would be avoided and
21 permitting would not be necessary in this case.

22 Next slide.

23 Moving on to wildlife corridors. So,
24 again, with the site being predominately

1 agriculture, wildlife corridors are pretty
2 minimal. What we look for when looking at
3 wildlife corridors would include stream
4 features, riparian corridors, long stream
5 features, anywhere where it would be best suited
6 for animals to move to and from the site.

7 So we did an assessment of that and got a
8 general idea of where those sites are, and,
9 again, much like wetlands and water bodies, it
10 appears that most of those areas are going to be
11 avoided during construction.

12 Next slide.

13 The one thing that came up and needed to
14 be discussed was the fencing situation.
15 Obviously, with projects such as this, fencing
16 needs to be installed from a security standpoint
17 and to make sure that people are staying out of
18 these systems. So our only recommendation would
19 be, you know, there are some new fencing options
20 that allow some of the smaller species to get in
21 and out. Again, birds would not be affected by
22 that, by any means; it would just be the larger
23 animals.

24 However, you know, as is the case in any

1 development, the animals will find a way to get
2 to and from this site. So with it being
3 predominately agricultural and avoiding forested
4 areas, it shouldn't have a significant impact.

5 Next slide.

6 In regards to threatened and endangered
7 species, we did a -- just a quick analysis of
8 any species within Lee County that may pop up on
9 a project such as this, and we identified four.
10 Those include the Indiana bat, the northern
11 long-eared bat, eastern prairie fringed orchid,
12 and the prairie bush clover. So two of those
13 obviously are bat species; the other two are
14 plant species.

15 It should be noted that these are
16 federally-listed species. And I'll generally go
17 through each one here real quick and provide our
18 assessment.

19 Next slide.

20 In regards to bats, so the Indiana bat and
21 northern long-eared bat are two
22 federally-endangered -- I'm sorry. Let me
23 rephrase that. The Indiana bat is federally
24 endangered, while the northern long-eared bat is

1 federally threatened.

2 So both species generally hibernate in
3 caves during the winter and they roost in trees
4 during the summer. So with that being said,
5 based on the fact that tree-clearing will
6 generally be avoided during construction, it was
7 our assessment that, although the bats may be in
8 the area, any construction as part of this
9 project would not have a negative effect on
10 those species. So, again, in regards to the
11 EcoCAT, the consultation should be terminated in
12 that regard as well.

13 Next slide.

14 In regards to the prairie bush clover and
15 the eastern prairie fringed orchid, the bush
16 clover is generally found in tall grass
17 prairies. So when we did our assessment and
18 determined that the significant amount of the
19 project site was in agriculture, we can
20 generally assume that that species would not be
21 impacted by the particular project.

22 And the same thing generally goes for the
23 eastern prairie fringed orchid. So they like
24 wet prairie conditions and also wetland habitat

1 with full sun. So, again, by converting the ag
2 land to solar, it generally would not have a
3 negative effect on these species, and it may
4 actually have a positive effect on species if
5 the seed bank is there.

6 So with that being said, as far as those
7 four species, we don't foresee any major
8 obstacles in regards to their project; however,
9 much like the wetland and water body situation,
10 we would likely have to ground truth anything to
11 identify those species if they were there.

12 Next slide.

13 We generally mentioned this already, but
14 the project has gone through the EcoCAT system
15 through the Illinois Department of Natural
16 Resources. Nothing was identified during the
17 EcoCAT, and the consultation was terminated with
18 the Heritage Database.

19 And just so everybody understands, that
20 includes natural areas, dedicated nature
21 preserves, and registered land and water
22 reserves; and none of those areas were
23 identified as part of the EcoCAT as well.

24 Next slide.

1 In regards to stormwater management, it is
2 my understanding that grading will generally not
3 be necessary as part of this project. So we
4 generally looked at what that would look like
5 and what would need to happen as far as the
6 stormwater management was concerned.

7 So, again, with it being generally
8 agriculture, it was our opinion that basically
9 when you convert it over and include the native
10 vegetation, that a lot of that stormwater is not
11 going to be significant.

12 I know Mr. Huddleston covered a lot of
13 this as well, so I won't repeat everything he
14 said, but as part of the project, we would also
15 need -- or somebody would need to provide a
16 stormwater pollution prevention plan, or a
17 SWPPP. And in that case, generally that would
18 cover any stormwater that would leave the site,
19 and that would include BMPs that I'll cover in
20 this next slide.

21 Next slide, please.

22 So again, a site-specific SWPPP must be
23 prepared based on the fact that there's greater
24 than one acre of impact. So that would include,

1 again, your BMPs, such as stormwater retention
2 and detention basins, ditch checks, silt fence,
3 things of that nature, that were designed to
4 keep any silt on the site during and
5 post-construction.

6 A change in land use from predominately
7 agricultural should not have a negative effect
8 on the environment, again, for the same reasons
9 that were told by Mr. Huddleston.

10 Then once the solar farm is stabilized, we
11 don't anticipate any major stormwater effects
12 based on the change in vegetation, as well as
13 the fact that the large majority of the drain
14 tile would be kept in place or added, for that
15 matter.

16 Next slide, please.

17 So we also reviewed the landscape weed and
18 vegetation control plan that was prepared by
19 Steward Creek, LLC, to kind of get a better idea
20 of what that vegetation plan is going to look
21 like. Again, solar farms typically are sited on
22 land that is unsuitable for other development
23 and or on agriculture land, which is the case on
24 this particular project as well.

1 No tree-clearing -- it's our understanding
2 that no tree-clearing will be necessary as part
3 of this project. So there won't be any effects
4 in that regard.

5 In non-native and invasive species, it
6 will actually increase the control of those as
7 part of this project as well, based on the
8 management plan that we reviewed.

9 Next slide.

10 So as I said, we reviewed the landscape,
11 weed, and vegetation control plan, reviewed the
12 native seed mix that would go into planting
13 between the solar arrays, and looked at
14 generally what effect that would have on native
15 populations.

16 Some things that -- to note, that the seed
17 mix would increase the pollinator species that
18 are going to use the site; it would increase
19 some wildlife value, as we discussed; and,
20 again, provide invasive species control
21 throughout the 5,000 acres.

22 So overall, when we looked at those five
23 different topics, we did not identify anything
24 that wasn't covered or that would have a

1 significant effect on the project itself.

2 And that concludes my presentation.

3 Q. Thank you.

4 When you mentioned that the wetlands and
5 the waterways would be avoided, do you mean that
6 the project will be set back from all wetlands,
7 floodplains, and waterway?

8 A. That is my understanding, correct.

9 Q. And does the same ring true from that wildlife
10 corridor?

11 A. Correct.

12 MS. KENNEDY: I have nothing further, Your
13 Honor.

14 JUDGE SLAVIN: Excuse me just a minute.

15 MS. KENNEDY: Judge, I actually lied to
16 you. I would like to admit this into evidence.

17 JUDGE SLAVIN: Done.

18 MS. KENNEDY: Thank you.

19 (Petitioner's Exhibit Number 6
20 admitted into evidence.)

21 JUDGE SLAVIN: Okay. Mr. Boonstra,
22 questions of Mr. Billings?

23 MR. BOONSTRA: No questions, Judge.

24 JUDGE SLAVIN: How about you, Ms. Duffy?

1 MS. DUFFY: Sure.

2 EXAMINATION

3 BY MS. DUFFY:

4 Q. Sir, are you aware of the pesticides that
5 they're proposing to use -- oh, that's right.
6 Mr. Microphone.

7 Do you know what kinds of pesticides that
8 Hexagon is proposing to use to keep the
9 vegetation down around the fence lines and under
10 the solar panels?

11 A. I do not at this time.

12 Q. Do you know if bats roost under the solar
13 panels?

14 A. I can't say for sure that they won't, but
15 there's no studies to show that they would.
16 They generally -- it would be too -- it would be
17 too open of an area for the particular bats that
18 we looked at for them to likely roost in those
19 areas.

20 MS. DUFFY: That's all, Judge. Thank you.

21 JUDGE SLAVIN: Thank you.

22 All right. Interested parties -- no.
23 Zoning Board members. Mr. Forster?

24 MR. FORSTER: No questions.

1 JUDGE SLAVIN: Mr. Hughes?

2 MR. HUGHES: No questions.

3 JUDGE SLAVIN: Mr. Bothe?

4 MR. BOTHE: No questions.

5 JUDGE SLAVIN: How about you, Mr. Pratt?

6 MR. PRATT: Yes, I have a few.

7 EXAMINATION

8 BY MR. PRATT:

9 Q. Do your wetland and water body delineations --
10 what did you use to do that?

11 A. We have only done a desktop analysis using USGS
12 topographic maps, national wetland inventory
13 maps, aerial surveys. So we have not done any
14 field work as of yet. All of that would need to
15 happen during project development.

16 Q. So you talked about avoidable impacts/
17 unavoidable impacts. What's a waterway?

18 A. A waterway is -- well, if you're asking me what
19 something -- a jurisdictional waterway is, a
20 jurisdictional waterway is a waterway that has a
21 defined bed and bank and a defined watermark.

22 There's a new rule that went into place
23 per the federal government known as the National
24 Water Protection Rule, and generally what is

1 stated is that for something to be
2 jurisdictional it has to be either intermittent
3 or perennial, meaning -- which generally is
4 defined by the water flow.

5 So as part of any project development,
6 including this one, we would need to assess each
7 and -- each and every water body that's within
8 the study limits.

9 Q. I should have been a little better on that
10 question. As a farmer, a waterway to me is
11 what's -- a grass strip through the field where
12 the water runs down. Do you call that an
13 avoidable impact?

14 A. I don't. How I can speak to that is, is in
15 most cases that would be a non-jurisdictional
16 feature. So impacts to that area would likely
17 not need permitting; however, I -- as not part
18 of the design team, I don't know if those areas
19 would be avoided or not avoided, and I'm sure it
20 would go piece by piece.

21 Q. You don't make that determination to the
22 company?

23 A. No. We will identify during field surveys what
24 is jurisdictional and what would be regulated by

1 the Corps of Engineers.

2 Q. I see. Okay.

3 On the wildlife corridors, fencing --

4 JUDGE SLAVIN: Mr. Pratt, can you get a
5 little closer?

6 Q. (By Mr. Pratt:) On the wildlife corridors,
7 fencing, there's creeks with trees. Are you
8 going to recommend fences on each side of that
9 flowing water?

10 A. My understanding, based on the preliminary site
11 plans that we reviewed, is there will be no
12 fencing near those creeks or those water bodies.

13 Q. So how does that create a wildlife corridor?

14 A. Well, so our assessment of the wildlife
15 corridor was just to identify where we felt
16 those species are likely to concentrate. So
17 with that being said, the project, including the
18 fence plan, could be designed around those
19 areas. So that was really all the purpose of
20 our assessment was at this point.

21 Q. So you won't make a recommendation to put a
22 fence on each side of --

23 A. We will tell the Applicant where the wildlife
24 corridors generally are, which generally

1 correlate to the wetland water bodies that
2 are -- that have been identified on the desktop
3 assessment, but ultimately it will not be our
4 decision on where the fence will actually go.
5 We would just provide our recommendation on
6 where those wildlife corridors are.

7 Q. So on the vegetation plans, have you ever
8 thought about seeding the property before
9 construction of the solar farms?

10 A. So with there being no grading, what generally
11 happens is, as soon as construction is over, you
12 would provide an earth crop or a cover crop,
13 something like oats, which basically is a
14 quick-growing crop that would be put down
15 generally as soon as it's completed, and then
16 the seed mix would go on top of that in an
17 effort to avoid any erosion or any significant
18 erosion.

19 But to answer your question, it would be
20 difficult to seed it prior to construction
21 because it would likely not grow, based on the
22 fact that you're going to be utilizing that
23 area.

24 Q. So how much time do you think is necessary to

1 get that cover crop established satisfactorily?

2 A. It's usually a few weeks, but again, if we're
3 not grading and there's no bare soil, it
4 would -- it would take that long, but we would
5 assume that a lot of that erosion wouldn't
6 happen just based on the fact that you're not
7 tearing up the topsoil right off the ground.

8 Q. I guess my further question was, to get
9 established to the prairie grass vegetation that
10 the previous testimony said that would be good.

11 A. Sure. There -- in the landscape plan itself --
12 and I don't remember right off the top of my
13 head, but as far as the management itself,
14 there's a very defined schedule on what that
15 will look like, but I'm not prepared to tell you
16 exactly what that is at this moment.

17 MR. PRATT: Okay. No further questions,
18 Judge.

19 JUDGE SLAVIN: Thank you.

20 All right. Now interested parties in the
21 room. By raise of your hand, questions of this
22 gentleman?

23 Yes, sir. Mr. Illini, I'm going to call
24 you, unless the I stands for the Hawkeyes.

1 MR. PRESTEGAARD: No. God, no. This may
2 have been a free jacket.

3 JUDGE SLAVIN: Or Indiana or Idaho.

4 MR. PRESTEGAARD: I appreciate you being
5 here and --

6 JUDGE SLAVIN: Please state your name.

7 MR. PRESTEGAARD: Oh, yes. Good point.
8 Joel Prestegaard. I live outside of Lee.

9 EXAMINATION

10 BY MR. PRESTEGAARD:

11 Q. Why didn't the other projects, the ones that
12 didn't go to build, why didn't they go to build,
13 in your opinion?

14 A. Oh, that could be for a number of reasons. In
15 reality, I highly doubt it had anything to do
16 with any of the studies that we were providing.

17 Q. What part of Missouri was that large?

18 A. That was in -- just north of St. Charles
19 County. I'm drawing a blank on what county that
20 actually is.

21 Q. St. Charles County? South?

22 A. North of St. Charles County.

23 Q. Okay. Predominately farm ground.

24 A. Not as much as this, but -- and a lot more

1 slopes. So that is a particular project that I
2 don't think actually went to construction yet
3 for a number of different reasons that I don't
4 know.

5 Q. So they wouldn't have had an average PI on
6 that? You probably -- that's probably a bad
7 question. Don't worry about it.

8 So you say to date you have only done a
9 desktop assessment and review of prepared
10 documents?

11 A. That's correct.

12 Q. Prepared by -- who were those documents
13 prepared by? I am sorry.

14 A. Well, the majority were provided by Steward
15 Creek Solar, LLC, and then we also reviewed the
16 Natural Resource Plan that was provided by the
17 Lee County Soil and Water Conservation District.

18 Q. All right. Your engineering firm hasn't had
19 any boots on the ground then to date?

20 A. Other than just the drive-by analysis on
21 September 9th, which basically we didn't even
22 leave the truck, that would be it.

23 Q. On that drive-by you said you saw a few swales.
24 Can you define a swale?

1 A. Sure. So we identified a number of different
2 things, one of those being swales. We generally
3 classify a swale as a grassed area that is used
4 to basically drain -- drain farm fields that's
5 not used -- or that's not included as part of
6 the drain tile system.

7 Q. Thank you.

8 EcoCAT, kind of a cool term. It's an
9 Illinois thing, right? That's a drop-down of
10 questions -- prepared questions for
11 qualification --

12 A. So generally -- I'm sorry. Go ahead.

13 Q. No, that's all right.

14 A. Just to give you a general idea of what an
15 EcoCAT is, basically it's an online system where
16 you input your project information, particularly
17 your site and what those boundaries are, and the
18 State looks at it, does a general assessment of
19 any identified species, threatened and
20 endangered species that are in that area, and it
21 provides a report.

22 Q. Okay. But it's not an in-person or actual
23 on-the-ground audit?

24 A. It is not. It is online only.

1 Q. Okay. I guess, in your recommendation then as
2 the hired engineer, meaning, it sounds like
3 you -- sorry. Trying to get to a question here.

4 It sounds like -- am I hearing you right
5 that you'd rather have boots on the ground,
6 exploring the terrain and so forth before you
7 make any type of recommendations or
8 qualifications to the project?

9 A. That would generally be correct, and the main
10 reason is, is the regulatory agencies, including
11 the Corps of Engineers, IEPA, IDNR, are going to
12 require those surveys, require them to actually
13 permit any project, regardless.

14 Q. And to your knowledge, the SWPPP hasn't been
15 done yet?

16 A. To my knowledge, yes, that's correct.

17 Q. Would that be something that would be -- just
18 as Mr. Huddleston's work, your work, everybody
19 else's, would that be something that would --
20 could directly impact a project of this size if
21 it was of a negative performance?

22 A. Well, so we have done a significant number of
23 large-scale projects, whether it's solar or wind
24 or oil and gas or whatever it is, and I mean,

1 like I said, you can provide a desktop analysis,
2 but until you actually get boots on the ground
3 and actually determine what's on the site --
4 because there very well could be surprises.
5 Those maps are only as good as they are just for
6 providing, you know, a preliminary assessment.

7 So there has been many cases where we've
8 identified something that maybe we didn't see on
9 the map, and went back and a developer or a
10 client basically had to change something based
11 on the information we brought to the table.

12 Q. I think the magnitude of this project is part
13 of the problem. So let's break it down. In
14 your opinion, in your professional opinion,
15 would a small municipality or town ever move
16 forward with a project without first doing the
17 SWPPP analysis?

18 A. Well, it really depends on what they want to
19 do. You know, there's -- we -- there are
20 developers out there every single day that do
21 projects without doing any of this analysis at
22 all, based on their own judgment. So, you know,
23 they do a risk rewards analysis, and if they
24 determine that they -- you know, based on their

1 site, they don't need to do these things, they
2 just don't do them.

3 There's some risk there, obviously. You
4 know, they could miss something and be in
5 trouble for it later, but, you know, that's just
6 up to the developer. Sometimes we don't even
7 get that phone call, and that's just the way
8 that goes.

9 Q. Certainly, and I appreciate that.

10 So the two years of bare ground during
11 construction, how well is that going to hold off
12 rain water, erosion?

13 A. I am not sure where the two years comes from.

14 Q. I'm sorry. They told us there would be two
15 years of build time.

16 JUDGE SLAVIN: Just the way you asked the
17 question. If you were told that the
18 construction was going to last two years --

19 Q. (By Mr. Prestegaard:) Let's say you were told
20 the construction process was going to last two
21 years, what would mitigate, stop any runoff, in
22 your professional opinion?

23 A. Well, that's where the nurse cover crop comes
24 in. So obviously, like any large-scale

1 projects, 5,000 acres isn't going to get built
2 at the exact, same time. So I'm assuming that
3 this would be phased, and each particular phase,
4 once that part of that project was done, it
5 would be seeded almost immediately, at least
6 with nurse crop, and then pretty quickly with
7 the native seed mix.

8 Q. As long as it was a time of year where a nurse
9 crop would actually germinate and grow, it might
10 actually help?

11 A. That's correct. I know the majority of the
12 nurse crops will grow generally most of the
13 year. There are a few months, obviously, over
14 the winter where it would be tough, but there
15 are some other things that the client could do
16 in that case, like hydro seeding and things like
17 that as well that may help prevent that erosion.

18 But, again, I can't speak to you what the
19 timetable looks like on that construction.

20 Q. Are all the endangered species in Lee County
21 listed in your packet, to your knowledge?

22 A. Based on our assessment, using the tools we
23 have, that is correct.

24 Q. Okay. I can't believe I'm going to ask this

1 question. Have you ever heard of a blandings
2 turtle?

3 A. Repeat that one more time.

4 Q. Have you ever heard of a blandings turtle?

5 A. Blandings turtle? We -- I have not had a --
6 any dealings with the blandings turtle, no.

7 Q. Me neither, but I do know that as early as this
8 year there was a large --

9 JUDGE SLAVIN: Now you're telling him
10 things.

11 Q. (By Mr. Prestegaard:) Do you --

12 JUDGE SLAVIN: The trouble with --

13 Q. (By Mr. Prestegaard:) Are you of any knowledge
14 of a release of blandings turtles in Lee County
15 in 2020?

16 A. I am not knowledgeable of that, no.

17 Q. Okay. Would that be something that could be
18 researched by a common individual such as
19 myself?

20 A. Well, based on the fact that you're bringing it
21 to the table, I would guess the answer is yes.

22 MR. PRESTEGAARD: I sure appreciate your
23 time in answering my questions here this
24 evening. Thank you, sir.

1 THE COURT: Thank you.

2 Other people in the room? Yes, sir,
3 Mr. Lusz.

4 MR. LUSZ: Adam Lusz, from near Eldena.

5 EXAMINATION

6 BY MR. LUSZ:

7 Q. Why just a desktop impact study as we sit here
8 today?

9 A. I can't answer that question, because obviously
10 that would be more of a question for the client
11 themselves, the Applicant, but I do -- it is my
12 understanding that field studies will be
13 happening at some point.

14 Q. Do you believe that field studies should be
15 required before this County would approve a
16 permit like this?

17 A. I can't answer that question.

18 Q. Is it required for you to actually complete
19 more surveys then after this approval or this
20 hearing or whatever we're having? Is it a
21 requirement of you to complete this?

22 A. That would depend on the regulatory agencies
23 and what they were asking for.

24 Q. If I'm a nonparticipating landowner and I'm

1 worried about a change in stormwater runoff that
2 may impact me, is your study going to help put
3 me at ease that you're studying this, you're
4 studying to mitigate or to ensure that I'm safe?

5 A. Ensure is a strong word. We can't really, in
6 our profession, ensure anything. We can just
7 provide our best knowledge and put that into a
8 plan.

9 So to answer your question, as part of the
10 project, we would provide a SWPPP plan, which
11 would -- it -- that plan, you know, it has to be
12 approved by the IEPA and the County themselves.
13 So hopefully, you know, the purpose of us
14 preparing that SWPPP plan is to meet the needs
15 and to keep any stormwater on site or do the
16 best we can with the BMPs that are available.

17 MR. LUSZ: Thank you. I have got no
18 further questions.

19 JUDGE SLAVIN: Thank you.

20 Any other folks in the room? Yes, sir.

21 NR, GUASTO: I have just got one.

22 JUDGE SLAVIN: Yes, sir.

23 MR. GUASTO: My name is Loren Guasto,
24 Steward.

1 JUDGE SLAVIN: Would you spell your last
2 name for my court reporter?

3 MR. GUASTO: G-U-A-S-T-O.

4 JUDGE SLAVIN: Thank you.

5 EXAMINATION

6 BY MR. GUASTO:

7 Q. Have you noticed a lot of this property,
8 proposed site, is up along the interstate?

9 A. Yes.

10 Q. Okay. We have got -- well, how would that
11 affect the deer population? Would there be
12 enough room for deer to, you know, move around?
13 I work for the State in the wintertime, and I
14 pick up a lot of dead deer.

15 JUDGE SLAVIN: That's a statement. Just
16 ask him a question.

17 Q. (By Mr. Guasto:) Okay. How would it affect
18 the deer population? Would that be a problem,
19 the interstate and fencing?

20 A. Without having any studies on it, I'm not a
21 hundred percent sure, but I wouldn't see it
22 being -- really changing anything in that
23 regard.

24 Q. You wouldn't think it would cause more

1 accidents?

2 A. Well, that's kind of the purpose of avoiding a
3 lot of that corridor. I mean, obviously, the
4 deer wouldn't be in particular ag fields where
5 the fence is, but they're still moving along the
6 same corridors.

7 Q. Yeah, they're -- how do I ask this question?

8 They are in the fields all the time.

9 JUDGE SLAVIN: That's a statement.

10 MR. GUASTO: Oh, I'm sorry.

11 JUDGE SLAVIN: If you ask him, just say,
12 are they in the fields all the time?

13 Q. (By Mr. Guasto:) Are they in the fields all
14 the time, the deer?

15 A. They can be. I mean, obviously there are
16 certain times of the year when they are more
17 prone to be in fields than others.

18 MR. GUASTO: Thank you.

19 JUDGE SLAVIN: Thank you.

20 Any other folks, by the raise of your
21 hand?

22 Yes, sir, in the gray vest.

23 MR. HUBER: Jon Huber, Steward.

24 I think we should all watch Jeopardy more

1 often. We could all ask better questions.

2 EXAMINATION

3 BY MR. HUBER:

4 Q. Is this going to increase --

5 JUDGE SLAVIN: I'm just like Alex Trebek.
6 I say, Please phrase it in the terms of a
7 question.

8 MR. HUBER: We'll have to watch it before
9 the next meeting.

10 Q. (By Mr. Huber:) Do you think it would increase
11 the coyote population, since they have kind of a
12 hidden spot, they can get under the fences in
13 those low areas, and they can be invasive.

14 A. It would really be hard for me to say yes or no
15 to that question.

16 Q. Would those corridors be a nice place to put a
17 deer stand?

18 A. As a hunter, yes.

19 MR. HUBER: That's all I have.

20 JUDGE SLAVIN: Thank you.

21 Any other folks in the room?

22 Okay. Turning to the Zoomers, I remind
23 you Zoomers, if you are videoconferencing and
24 you want to ask a question of this witness, go

1 to Part- -- move your cursor down to view to
2 bottom of the page, middle says "participants."
3 Click on "participants," and up should pop a
4 list, and click on "raise hand."

5 If you're teleconferencing; in other
6 words, if you can just hear us, keep your cell
7 phone on but hit Star 9, and we should be able
8 to see I think a hand raised then.

9 MS. HENKEL: We have one.

10 JUDGE SLAVIN: Okay. It looks like Dee
11 Duffy.

12 MR. HENKEL: No, it would be Ali Huss.

13 JUDGE SLAVIN: Oh, she's in the upper --
14 okay. I see, yes, Ali Huss.

15 Can you hear me?

16 MS. HUSS: Yes.

17 JUDGE SLAVIN: Okay. You have got a
18 question of the witness? Go right ahead.

19 EXAMINATION

20 BY MS. HUSS:

21 Q. Yes. You mentioned your company has multiple
22 locations. Which office are you out of?

23 A. I am out of our O'Fallon, Illinois, office.

24 Q. I'm sorry, I can't hear your response.

1 A. O'Fallon, Illinois.

2 Q. Okay. You identified that there are wildlife
3 corridors. How many are there?

4 A. We haven't numerically put a number on that.
5 We just -- like I said, we have only done a very
6 preliminary desktop analysis of where those
7 forested areas are. But overall, like I had
8 mentioned, they are predominately along riparian
9 areas, along the water bodies within the survey
10 area. But, again, the majority of the site is
11 agriculture.

12 Q. Okay. Have there been studies that follow the
13 impact on wildlife and threatened or endangered
14 species for the duration of a 35-year solar
15 project?

16 A. Not that I'm aware of, other than the
17 assessments that we have -- these preliminary
18 assessments we have been providing.

19 Q. Okay. And when do you plan to do these
20 fieldwork observations?

21 A. To my knowledge, that timeline has not been
22 determined yet.

23 Q. Is there a guarantee that these fieldwork
24 observations will happen?

1 A. The timelines and the need will generally be
2 determined by the dealings with the County and
3 then the regulatory agencies. So, no, I can't
4 guarantee that any and all of these surveys will
5 happen, but in most cases it's been our -- it's
6 been our understanding that on larger-scale
7 projects such as this they will generally be
8 required.

9 Q. Okay. And if these statistical estimations
10 that you have made change upon the field
11 observation, how will the public be notified of
12 this?

13 A. I can't particularly answer that question. All
14 I can say is that we will provide our analysis
15 and our reports to the Applicant and then
16 provide general recommendations based on our
17 findings. So what happens with those is
18 generally out of our hands at that point.

19 Q. Okay. So is it a fair statement that the field
20 observations may not be made public to anyone
21 other than the interested parties?

22 A. I don't know the answer to that question.

23 Q. I'm sorry, I didn't hear your response.

24 A. I don't know the answer to that question.

1 MS. HUSS: Okay. Thank you for your time.

2 THE WITNESS: Thank you.

3 JUDGE SLAVIN: Thank you.

4 Any other Zoomers? Give you ten seconds
5 to hit the icons.

6 All right. Seeing none, Mr. Billings, you
7 may step down.

8 THE WITNESS: Thank you.

9 JUDGE SLAVIN: Ms. Kennedy, are you
10 prepared to go any further this evening?

11 MS. KENNEDY: We are, Your Honor.

12 JUDGE SLAVIN: Okay.

13 MS. KENNEDY: I'd like to call Mike Lehr
14 as our next witness. I believe he's on Zoom.

15 JUDGE SLAVIN: Mr. Lehr, I don't see you.
16 Mr. Lehr, are you -- say something to your --
17 you pop up on the --

18 MR. HENKEL: He's over here.

19 JUDGE SLAVIN: Oh, there's his name.

20 Are you there? Can you hear me? You are
21 on mute.

22 Can you hear him?

23 MR. HENKEL: He is not muted.

24 JUDGE SLAVIN: Okay. Mr. Lehr?

1 MR. LEHR: Yes. Can you hear me?

2 JUDGE SLAVIN: I can hear you now. Have
3 you got a video camera?

4 MR. LEHR: I'm sorry, there's a lot of
5 echo. Can you say that again?

6 JUDGE SLAVIN: Yes.
7 Do you have a video camera you can turn
8 on?

9 MR. LEHR: Yes, I do.

10 JUDGE SLAVIN: There you are.

11 Mr. Lehr, you want to raise your right
12 hand for me, please.

13 (Mike Lehr was duly sworn.)

14 JUDGE SLAVIN: Okay. You may inquire,
15 Ms. Kennedy.

16 MS. KENNEDY: Thank you.

17 MIKE LEHR,
18 having been duly sworn, was examined and
19 testified as follows:

20 DIRECT EXAMINATION

21 BY MS. KENNEDY:

22 Q. Mr. Lehr, can you hear me all right?

23 A. I can. There's a lot of echo in the room, so I
24 may have to ask you to repeat, but please bear

1 with me.

2 Q. Sure. We'll give it our best shot.

3 Can you state your name and spell it for
4 the record.

5 A. Yes. It's Mike Lehr, L-E-H-R.

6 Q. And can you give us a brief summation of your
7 educational history?

8 A. Yes. I have a bachelor of science degree in
9 mechanical engineering, I have a master's degree
10 in business administration, and I am a licensed
11 professional engineer.

12 Q. And how are you employed?

13 A. I'm employed by a company called Leidos
14 Engineering.

15 Q. And what does Leidos Engineering do?

16 A. We have provided -- over the last 60 years, we
17 provide consulting services to the electric
18 power industry. We have consulted on all kinds
19 of projects all around the world: nuclear,
20 coal, gas turbines, a lot of solar, a lot of
21 wind, hydro. So we have seen pretty much every
22 power-plant-type project there is.

23 Q. And what is your position with Leidos?

24 A. I'm a managing director.

1 Q. And what does that entail?

2 A. Basically what it is, is I'm the person that
3 deals mainly with clients. We do -- just to
4 give you a little background on Leidos, Leidos
5 provides owner-engineering-type services to
6 clients, as well as independent engineering
7 services. So I manage both sides of that.

8 Q. Are you familiar with Steward Creek Solar, LLC?

9 A. Yes, I am.

10 Q. And how so?

11 A. I have reviewed all the documents. For
12 example, I have reviewed the preliminary site
13 layout drawings, I have read through the project
14 description in detail, I have taken a look
15 through the Lee County Ordinances regarding
16 solar projects, I have looked at the AM --
17 the -- I can't remember the acronym. The
18 AIM- -- AIMA, I guess is what it's called. So I
19 have read through that. I have looked through
20 all of the attachments that were to the project
21 description, and I believe that's about
22 everything I have reviewed.

23 Q. And are you aware that Steward Creek Solar is a
24 proposed 600-megawatt solar energy system that's

1 to be constructed on about 5,000 acres?

2 A. Yes.

3 Q. And you mentioned some experience with solar
4 farms. What is the largest solar farm that you
5 have interacted with?

6 A. The largest one I have worked on is a 412-
7 megawatt solar farm. It's currently under
8 development and getting ready to start
9 construction down in Texas.

10 Q. And what is the largest wind farm that you have
11 interacted with?

12 A. Myself, I have not done much on the wind side.
13 Our company has. We have got a lot of wind
14 experience, but that's one of the areas I really
15 have not done much work in.

16 Q. Is it fair to say that you're responsible for
17 developing a construction plan for this project?

18 A. Yes.

19 Q. And could you describe for this ZBA what that
20 plan is or what it will encompass?

21 A. Well, the construction plan would start out
22 basically as a high-level document. It would
23 identify the requirements for the design that
24 would have to go -- that would start initially.

1 It would outline the Code requirements, the
2 permit requirements, would also outline any of
3 the studies that would be incorporated into the
4 project, such as the studies that have just been
5 reviewed here tonight and any other studies that
6 are done.

7 So that whole plan becomes the high-level
8 document with which administering the
9 construction of the project begins, and any
10 details get filled in as the project progresses
11 prior to the start of construction.

12 Q. And what does the construction schedule look
13 like?

14 A. The construction schedule for a project this
15 size -- again, a detailed schedule has not been
16 developed, but for a project this size, and you
17 probably heard this, it's probably about a 21-
18 to 24-month construction schedule. Some of that
19 is based on weather.

20 The schedule starts basically with -- once
21 the permits are issued -- the schedule could
22 even contain the permitting process, but
23 typically the construction schedule starts once
24 the permits are issued, the design starts, then

1 the procurement and onsite construction
2 activities start, and it takes it all the way
3 through testing and commercial operation
4 procedures.

5 Q. And are there any construction activities that
6 will take place that would involve any
7 disturbances or any impacts that residents in
8 the area will see?

9 A. Yes. As any project, especially one of this
10 size, there are going to be things that the
11 residents will see. There's no large -- with
12 solar projects, there's no large pieces of
13 equipment out there. You wouldn't see cranes
14 out there like you would on other either
15 building construction or power plant
16 construction. Everything is very low-level.

17 The biggest types of equipment that you'll
18 see onsite would be forklifts to move the
19 materials and equipment around and the pile-
20 driving units. Those aren't large units, the
21 pile-driving units. So as a resident, you will
22 see that equipment. It would obviously be off
23 in a distance, probably even from the nearest
24 residence, until -- even with the setbacks.

1 You would hear some noise during the pile-
2 driving, but that noise is relatively -- by the
3 time it gets to where the site boundary is, is
4 usually very, very low level. You could still
5 carry on a conversation while they're driving
6 piles if you were standing at the site boundary.

7 It's very -- from a power plant
8 standpoint, the construction of the solar plants
9 is very minimal impact to residents.

10 Q. And is it a fair statement that those
11 disturbances or impacts would cease once
12 construction is complete?

13 A. Correct.

14 Q. Will the construction for this project require
15 the construction of any new roads?

16 A. Yes. Yes, it will. The roads would be
17 internal roads to the project site. No new
18 county or township roads, but it would be
19 roadways into the different areas of the
20 project.

21 Q. And I'm not certain that I heard you correctly,
22 but you said there would be no new county or
23 township roads; is that correct?

24 A. As far as I understand, that's correct.

1 Q. How will the materials for construction be
2 stored?

3 A. The materials on a solar site, it's a little
4 different than a -- some of the other power
5 plants or maybe even some large industrial
6 constructions in that the solar site is very
7 spread out and, as you well know, it's 5,000
8 acres.

9 So the materials would come in, there's
10 usually a central receiving area at the site
11 that's designated by the construction
12 contractor. Once the materials are received at
13 that point, they are inspected, and then most of
14 that material, again, due to the large area of
15 the site, that material gets moved out and
16 staged to where it's going to be needed at
17 the -- in the particular area of the site. So
18 you don't usually end up with a big storage area
19 with all the equipment and all the materials for
20 the site. The area gets staged out fairly
21 quickly.

22 Q. And would the storage of those materials be
23 within the project site?

24 A. Yes. Yes, they would be maintained within the

1 fenced boundaries of the project site.

2 Q. How many employees will be utilized during this
3 construction process?

4 A. Typically a project this size would range in
5 the order of maybe 300 to -- on average, maybe
6 250 people on the site. During the peak time,
7 it might go up to possibly 400, 450 people.

8 Q. And where will those individuals park?

9 A. They would park on the site. As the site
10 starts construction, not 400 people are going to
11 show up on day one. So the way the construction
12 and the parking would progress is, as the
13 project -- and I'll go through this in a little
14 more detail in my presentation.

15 It's a phased project. So there would be
16 a main parking area on the north side of the
17 site, where it starts construction. Then as the
18 project moves south, other parking areas would
19 be developed so that the craft labor that's
20 working in the areas as the project develops
21 would drive to those particular parking areas so
22 that they're close to where they are doing the
23 work.

24 Q. Are you familiar with what's known as a road

1 use agreement?

2 A. Yes, I am.

3 Q. And are you aware that the Lee County Ordinance
4 for solar energy systems requires the applicant
5 to enter into a Road Use Agreement with the
6 county and townships affected?

7 A. Yes. Yes, I am.

8 Q. And to the best of your knowledge, does Steward
9 Creek intend to enter into a Road Use Agreement
10 with the County and the Townships?

11 A. Yes, to the best of my knowledge, that's true.

12 Q. Now, you mentioned the AIMA, or the
13 Agricultural Impact Mitigation Agreement. Can
14 you tell me what that is?

15 A. Well, it's an agreement that has several
16 points, and I'll touch on some of these in my
17 slide presentation. It has several points that
18 have to be addressed as a part of constructing
19 the project. As an example, it discusses
20 support structures, above-ground facilities that
21 are going to be on the project site, topsoils,
22 how they are going to be handled, rock removal,
23 compaction on the site, the erosion --
24 prevention of erosion during construction on the

1 site, clearing of any trees or grubbing of the
2 land prior to starting construction. It talks
3 about access roads. So it kind of covers the
4 whole gamut of the activities that would happen
5 during construction.

6 Q. And so is it a fair statement that the AIMA
7 sets forth certain guidelines that must be
8 followed during the construction process?

9 A. Yes.

10 Q. Are you familiar with what's known as the
11 stormwater prevention pollution plan?

12 A. Yes, I'm familiar with that.

13 Q. And what is that?

14 A. What it is, is a plan that's put together prior
15 to the start of construction that describes how
16 stormwater on the site during construction is
17 going to be handled, whether there's going to be
18 additional, new runoff channels required. Some
19 of this may come from some of the studies that
20 Huddleston and McBride may do. There may be
21 some other hydrologists that look at that as
22 well.

23 But what it does is, it establishes areas
24 where the runoff is, whether there's going to be

1 any temporary ponding or site collection ponds
2 needed, and it would also identify how the
3 erosion control is going to be handled around
4 the perimeters of the site: silt fencing, hay
5 bales, and those types of things.

6 Q. And is this SWPPP plan required prior to
7 construction?

8 A. Yes.

9 Q. But it's not required to be entered into or to
10 have been designed at the time of this hearing;
11 is that correct?

12 A. No, that's correct. You have to -- the plan is
13 put together and it's best if it's put together
14 once you have a construction company selected,
15 because they can provide input on the best ways
16 to control certain things on the site. They
17 would take into account the hydrology studies
18 and so forth and have input into developing
19 that.

20 So usually the SWPPP becomes -- is issued
21 out -- again, it's prior to construction, but
22 not this early in the project.

23 Q. And at the time of the execution of this SWPPP
24 plan, the Lee County Soil and Water Conservation

1 District would surely weigh in on that; is that
2 correct?

3 A. Yes. Yes, exactly.

4 Q. Will you work with Huddleston and McBride to
5 identify and avoid drain tiles within the
6 project area?

7 A. Yes. As they kind of alluded to in their
8 presentation, they would survey the site and
9 identify all the drain tiles and the paths that
10 they take. And then once the layout for the
11 site is fairly well established -- and, again,
12 that's later on in the project rather than right
13 now, but before construction. Once that is
14 established, then you would lay out basically
15 the location of all the piles that are driven
16 and all the underground electrical cables. And
17 if there is any conflict between the drain
18 tiles, then you would obviously want to work
19 with Huddleston and McBride to either reroute
20 the drain tiles around where the obstruction --
21 where the conflict would be, or you could alter
22 the design a little bit to some extent, move a
23 pile here or there or move a trench over to miss
24 the drain tile.

1 So it usually ends up kind of being a
2 give-and-take as the project gets designed.

3 Q. Does the AIMA have any requirements as to what
4 happens when a drain tile is hit?

5 A. Well, obviously the -- it would have to be
6 corrected. I don't recall the exact words in
7 the AIMA, but I know for this project it's
8 commitment by the owners that if a drain tile is
9 hit, it would be -- work would stop and that
10 drain tile would -- at least in that area would
11 be rerouted around or repaired so that the drain
12 tile effectively would still be intact
13 afterwards, after the repair.

14 Q. It's my understanding that you prepared a
15 PowerPoint presentation for tonight; is that
16 true?

17 A. Yes, that's correct.

18 Q. I'm going to ask you to share your screen and
19 to proceed with your PowerPoint presentation.

20 A. Okay.

21 Okay. Can everybody see my screen?

22 Q. We can, thank you.

23 A. Okay. Great.

24 So first of all, let's start off with,

1 again, you know my name is Mike Lehr. I have
2 stated that upfront. I'm the Steward Creek
3 consulting construction manager.

4 I work for a company called Leidos, and as
5 I alluded to earlier, we have extensive
6 experience in large renewable energy projects,
7 including wind, even though my experience
8 personally hasn't been a lot of wind, but I
9 certainly have a lot of solar, nuclear, coal,
10 natural gas projects under my belt.

11 A little bit about Leidos, Leidos on the
12 solar side, we have advised over 64 gigawatts of
13 solar projects. And I know that gigawatt, that
14 may not mean a lot to everybody, but that can
15 power several large, large cities with that kind
16 of output across the country.

17 As an example, a couple of the projects
18 that Leidos has done, Copper Mountain Solar
19 Complex was a 557-megawatt solar project located
20 outside of Las Vegas. It was kind of similar to
21 this project in that it was made up really of
22 four smaller projects that totaled up to the 557
23 megawatts. So it was a stage project similar to
24 Steward Creek.

1 The California Flats Solar Project was
2 outside of San Luis Obispo and provides all the
3 renewable power to Apple Computer.

4 And then the AV Solar Ranch Project is a
5 241-megawatt project, again located in
6 California, and it's outside of Los Angeles and
7 provides some of the power for the City of Los
8 Angeles.

9 So that's just kind of a brief -- I mean,
10 Leidos has way more than that, but it's just
11 kind of a snapshot of a few solar projects
12 Leidos has done.

13 My experience, I have done several large
14 solar projects. The Intersect Solar Project I'm
15 working on right now is a 412-megawatt project.
16 It's located in Texas.

17 The Mount Signal III Project was -- is a
18 project that just finished up here recently.
19 It's located in El Centro, California. Again,
20 that project is similar to this one. A lot of
21 these are, because they were out on farmland.
22 Particularly, the Mount Signal III Project was
23 on a 5,000-acre site, farmland, spread out just
24 about like this project was.

1 So this slide shows the overall layout for
2 the project. So the project is bounded on the
3 north side by Gurler Road. It's bounded on the
4 east side basically by the West County Line
5 Road. It's bounded on the west side by
6 Highway -- Interstate Highway -- Interstate
7 Highway 39, and on the south side by Highway 30.
8 So that kind of gives the whole encompassing
9 site of the project.

10 So the project is going to be phased in
11 three phases. You may have already heard that.
12 I'll show you those phases in a little more
13 detail in a couple of following slides here.

14 So the phases will be from north to south,
15 and that's how construction will proceed.
16 Correction is slated right now to start in late
17 2022.

18 So following on from that slide, this is
19 the -- kind of the layout that would be in the
20 north phase of the project. And, again, it's
21 bounded on the north side by Gurler Road and on
22 the south side by Perry Road, and this -- the
23 size of this project will probably be just a
24 little less than one-third -- the output of this

1 project, on megawatt scales, about a little less
2 than one-third of the total output of the
3 project.

4 The project will then, construction-wise,
5 move from the north as things progress to the
6 central portion of the project. And the central
7 portion of the project is bounded by Perry Road
8 on the north and Herman Road on the south side,
9 and the output of this central portion of the
10 project would be just a little over one-third of
11 the output of the project.

12 And then the south phase of the project is
13 shown here, and it's bounded by Herman Road to
14 the north and Willow Creek Road, basically, to
15 the south. There's one portion that might be a
16 little -- that's a little south of Willow Creek,
17 but that's kind of the guidelines, just to give
18 everybody a feel for what that south project is.
19 And the size of this output of this portion of
20 the project would be, again, about one-third of
21 the output of the project.

22 So with that in mind, one of the early-on
23 things that has to be looked at is the -- how
24 the sites are going to be accessed, and so this

1 slide gives you an idea of exactly how we're
2 planning to access the sites specifically. So
3 all of the access would come off of Interstate
4 39 basically at two points: at Perry Road and
5 down at Highway 30.

6 So the access would be up the local roads
7 and into the sites. So, as an example, access
8 to the north site, you would go up Paw Paw Road
9 to whichever crossroad you would need to go to,
10 to get entrance to where you're working on the
11 north side.

12 Then for the central portion of the
13 project, again, most of the deliveries and
14 access would be off of Perry Road, down Paw Paw
15 Road, into the central portion of the project,
16 as you can see, for access to that portion down
17 through Herman Road.

18 And then for the south portion of the
19 project, the access would mainly be off of I-39
20 through the Highway 30 exit and then north on
21 Paw Paw Road to gain access to the sites.

22 So based on that, preliminary road use has
23 been -- an agreement has been put together, and
24 it's been reviewed by the Willow Creek Township

1 and the Alto Township and their -- the
2 preliminary -- there hasn't been any concerns
3 voiced about the road use -- preliminary road
4 use.

5 So there will be a final Road Use
6 Agreement, and again, it will be with the
7 townships, and that would be in place before the
8 project started construction.

9 You asked earlier about the AIMA and some
10 of the things that it talks about. This
11 provides a list of the topics that are in the
12 AIMA. I'm not going to touch upon every one of
13 those bullet points, but there's a few here
14 that -- bolded that I will touch on.

15 The topsoil removal and replacement,
16 there's no plan to take the topsoil off the
17 project site at all and sell it -- take it off
18 the project site. If there's topsoil that has
19 to be removed to either level or fill in, it
20 will all be topsoil from the project site and
21 used at the project specifically. There won't
22 be anything removed from the project site.

23 Q. The routing of the drain tiles, the previous
24 presentation touched on that in a lot more

1 detail than what I plan to talk about, but,
2 again, if -- as I stated earlier, if a drain
3 tile -- during the design of the project, once
4 the drain tiles are surveyed and laid out, if
5 the design identifies where it would interfere
6 with a drain tile, the drain tile will either be
7 slated to be moved to allow the -- either the
8 post or the underground cable burial there, or
9 if it's amenable, maybe a post can be moved or
10 the underground trench can be moved. So it will
11 be worked out at that point to minimize any
12 impact on the drainage tiles.

13 Prevention of soil erosion, again, that
14 would be -- and the SWPPP covers some of this.
15 But, again, that would be the -- putting in --
16 compacting the soil for the roadways, putting in
17 gravel roadways for the sites, limiting the
18 speed limits on the sites, putting in silt
19 barriers around the project sites and hay bales
20 around the project sites during construction.

21 And then as it moves into the operation
22 phase once construction finishes up, as was in
23 the previous presentation, then there would be
24 native grasses planted to prevent the erosion.

1 And if there is any -- during construction, any
2 identified specific areas where there's a lot of
3 dust generated or erosion-type things, the
4 construction company could come in and spray
5 those areas to prevent the dust-type erosion
6 from the project site during construction.

7 So additionally, there's going to be
8 permits that are going to be required to
9 construct this: the SWPPP, which we have
10 already touched on, there's going to be building
11 permits, electrical permits, and as well as the
12 Road Use Agreement. So those are the types of
13 things that get in place prior to starting
14 construction.

15 So this slide is to give everybody kind of
16 an idea of construction, how it progresses a
17 little bit. As I stated earlier, construction
18 on a project of this size, being 21 to 24
19 months, it will be in the three phases we have
20 discussed.

21 So at the start of construction, what
22 happens is the site gets prepared, and that
23 doesn't necessarily mean the whole site has gone
24 in and recreated. A lot of these solar projects

1 anymore like to maintain -- and, again, from
2 drainage, they like to maintain the topography
3 of the site because that helps the drainage as
4 it is, and tries not to disturb if there's low
5 vegetation on the site. By "low," I mean
6 grasses or something like that, tries not to
7 disturb that. There's no need to really just
8 make the site completely bare ground to install
9 these solar facilities anymore.

10 So the site would be prepared for the
11 start of construction. The access roads would
12 be installed. The gravel would be placed down
13 and compacted for the roads. Then the SWPPP for
14 the construction portion would be implemented
15 for, like, the silt barriers, and those types of
16 things would be erected. Any drainage channels
17 that may be needed or drainage ponds, those
18 would all be put in at the start of
19 construction.

20 As I said earlier too, the topsoil will be
21 retained on site. And the civil work, really we
22 try to minimize that. There's no need to go in
23 and regrade those sites.

24 The -- then once the site is really

1 prepared from a topography standpoint, then the
2 piles are driven. In the picture on the upper
3 right, it shows the pile-driving machine.
4 There's a guy standing next to it so you can get
5 an idea of how big that machine is.

6 The piles are driven typically about 6 to
7 8 feet. That gets determined by a geotechnical
8 report that will be done that will establish the
9 actual depth of the piles that need to be
10 driven. In some cases they get driven less,
11 some cases more. But in general, it will
12 probably be in the order of 4 to 6 feet -- or 6
13 to 8 feet, I'm sorry.

14 So once the piles are installed -- and not
15 all the piles have to be installed at the site
16 before the erection of the solar panels begins.
17 They'll -- the way construction will progress
18 is, piles will get driven in a certain area, and
19 then the racking for the solar panels will start
20 coming in where they'll bolt on to the piles.
21 So even though they're driving piles on another
22 portion of the project, maybe in that same area
23 just further down, they'll start bolting the
24 racking up and putting the solar panels in

1 place.

2 And you can see what the solar panels --
3 how they're installed in the picture on the
4 lower right. Everything that's put in from the
5 solar -- onto the piles, the solar racking and
6 the panels, it's all bolted connections.
7 There's nothing welded on it.

8 The -- then once the solar panels are
9 up -- and again, it doesn't have to be for the
10 full site. Just once a -- several rows of the
11 solar panels are up, the electricians will come
12 in and start connecting the wires. They join
13 them in series down the panels. Now, the panels
14 produce direct current. So the electricity
15 flows through some wires over to an inverter.
16 There will be some inverters on site, and they
17 will take this direct current out of the solar
18 panels and convert it to alternating current,
19 which is then routed over to the substation and
20 out to the power grid.

21 As stated earlier in some of the other
22 presentations, there will be a 6-foot chain link
23 fence around each of the project sites, and it
24 will have stranded barbed wire on the top.

1 The operation and maintenance phase, I
2 wanted to touch on that just a little too. Once
3 the plan is constructed and deemed commercially
4 operable, the operation and maintenance phase,
5 the plan will actually be controlled off site.
6 So there will be very few people actually on
7 site, and they would be mainly just a few folks
8 coming and checking on the project, making sure
9 nothing has been damaged, doing any preventative
10 maintenance that may need to be done, spraying
11 weeds as needed and mowing as needed.

12 So there's very little -- once the project
13 is in place, there's very little amount of
14 people coming onto the project site and very
15 little noise at all. It's just mainly vehicles
16 on and off the site.

17 So with that, that concludes my
18 presentation.

19 Q. Thank you. Just a few follow-up questions for
20 you, Mr. Lehr.

21 A. Sure.

22 Q. Does that SWPPP plan end once construction is
23 completed?

24 A. It's usually dictated by what the County

1 requires, or the local ordinance, I guess I
2 should say. Yes, the SWPPP, from that
3 standpoint, usually ends at the end of
4 construction. I have not seen projects in the
5 past where the SWPPP has continued on past
6 construction during operation. So in all, in my
7 experience, yes, it usually ends at the end of
8 construction.

9 Q. But the AIMA would continue throughout the
10 general operation of the project; is that
11 correct?

12 A. Yeah, that's correct.

13 MS. KENNEDY: I have nothing further.

14 JUDGE SLAVIN: All right. I hate to do
15 this, but we're going to. Mr. Lehr, we'll see
16 you tomorrow night. Tomorrow will begin at
17 7 o'clock. You can be cross-examined by the
18 State's Attorney, the Zoning Officer, the ZBA,
19 and other interested parties who are here or on
20 Zoom.

21 So 7 o'clock tomorrow night okay with your
22 schedule, sir?

23 THE WITNESS: Yes. Yes, it is.

24 JUDGE SLAVIN: Okay. We'll flip your

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image up then. Thank you.

THE WITNESS: Okay. Thanks.

JUDGE SLAVIN: Have a good evening,
everybody.

(The hearing was recessed at
9:30 p.m.)

1 On this 19th day of October, A.D., 2020, I
2 do signify that the foregoing testimony was given
3 before the Lee County Zoning Board of Appeals.
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8 Bruce Forster, Chairman
9

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11
12 Dee Duffy,
13 Zoning Enforcement Officer
14

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