| 1  | BEFORE   |
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| 2  | THE RETIREMENT BOARD                               |
| 3  | FIREMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO      |
| 4  |  |
| 5  |  |
| 6  |  |
| 7  | IN THE MATTER OF ) INVESTMENT COMMITTEE )          |
| 8  | INVESTMENT COMMITTEE                               |
| 9  |  |
| 10 | STENOGRAPHIC REPORT OF PROCEEDINGS had at          |
| 11 | the audio/video meeting of the above-entitled      |
| 12 | matter, held at 20 South Clark Street, Suite 300,  |
| 13 | in the City of Chicago, County of Cook, State of   |
| 14 | Illinois, on June 16, 2021, commencing at the hour |
| 15 | of 9:30 a.m.                                       |
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| 1  | APPEARANCES   |
|----|---|
| 2  | COMMITTEE MEMBERS:  |
| 3  | DANIEL FORTUNA, President and<br>Annuitant Trustee                      |
| 5  | WILLIAM MURPHY, Secretary and Active Trustee                            |
| 6  | TIMOTHY McPHILLIPS, Investment Committee<br>Chairman and Active Trustee |
| 7  | MELISSA CONYEARS-ERVIN, City Treasurer                                  |
| 8  | ANNETTE NANCE-HOLT, Active Trustee                                      |
| 10 | ATTORNEYS FOR THE BOARD:  |
| 11 | BURKE, BURNS AND PINELLI, LTD.<br>BY: MS. SARAH A. BOECKMAN             |
| 12 | ALSO PRESENT: LORNA SCOTT, Chief Investment Officer                     |
| 13 | MARC TORRES, IT Analyst  MARK MYSLINSKI, City Treasurer's Office        |
| 14 | KELLY WELLER, Executive Director as of 7-1-21                           |
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| 1  | MEMBER MCPHILLIPS: Good morning,                   |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 2  | everybody. This is Committee Chairman Tim          |  |  |  |  |  |
| 3  | McPhillips of the Investment Committee.            |  |  |  |  |  |
| 4  | I hereby convene this Investment                   |  |  |  |  |  |
| 5  | Committee meeting for June 30, 2021.               |  |  |  |  |  |
| 6  | Lorna, could you please take a roll call?          |  |  |  |  |  |
| 7  | MS. SCOTT: Trustee McPhillips.                     |  |  |  |  |  |
| 8  | MEMBER MCPHILLIPS: Here.                           |  |  |  |  |  |
| 9  | MS. SCOTT: Trustee Murphy.                         |  |  |  |  |  |
| 10 | MEMBER MURPHY: Here.                               |  |  |  |  |  |
| 11 | MS. SCOTT: Trustee Fortuna.                        |  |  |  |  |  |
| 12 | MEMBER FORTUNA: Here.                              |  |  |  |  |  |
| 13 | MEMBER MCPHILLIPS: We have a quorum. I             |  |  |  |  |  |
| 14 | will make some quick comments for the record and   |  |  |  |  |  |
| 15 | then I will turn it over to Lorna.                 |  |  |  |  |  |
| 16 | Public Act 101-0640 allows this meeting            |  |  |  |  |  |
| 17 | to be conducted by audio and video conference. The |  |  |  |  |  |
| 18 | Act requires a roll call vote on each matter acted |  |  |  |  |  |
| 19 | upon.  |  |  |  |  |  |
| 20 | We are proceeding by audio and video               |  |  |  |  |  |
| 21 | conference because we continue to believe that due |  |  |  |  |  |
| 22 | to the pandemic it is prudent to not be physically |  |  |  |  |  |
| 23 | present in the same space.                         |  |  |  |  |  |
| 24 | We have posted notice of this meeting in           |  |  |  |  |  |

1 accordance with the Open Meetings Act and the 2 meeting is being recorded. A transcript of the 3 proceedings will be prepared and ultimately, after 4 approval, will be made available on the Fund's 5 website. I will also note that this meeting is 6 7 solely focused on educational investment matters and we will not be taking any actionable votes. 8 9 As Trustees know, we are required to 10 fulfill the annual training requirements under 11 Section 1-113.18 of the Illinois Pension Code. 12 I'd like to thank Lorna for organizing 13 this educational session and I will now turn things 14 over to her to proceed with our Committee agenda. 15 MS. SCOTT: The first item on the agenda 16 is an infrastructure investment overview. I am 17 going to turn the presentation over to Callan, to 18 Brady, to take us away. 19 MR. O'CONNELL: Thank you, Lorna. Just a 20 quick minute and a half introduction and then, 21 Marc, maybe you can pull up our first set of slide 22 docs, the infrastructure education. 23 What we wanted to do here in the next 24 couple of months and quarters is spend some time

with the Board and the Committee on issues we want to explore in more detail as part of the Asset Liability Study that we will be doing later this year.

When we did that five years ago, we added a number of new asset classes that are in what we call the Real Assets Category. So Real is a term that we use in finance to apply to things that have inflation sensitivity. So we added core real estate. We will be hearing from those two managers later today. We added global REITS, Real Estate Investment Trusts, so those have inflation sensitivity as well. And then we added U.S. TIPS or Treasury Inflation-Protected Securities.

The other component of the real asset portfolio is commodities and over the past 16 months really we have had a discussion about how this performed in the pandemic and whether or not we want to continue to have those.

So when we get into the Asset Liability
Study, we will look at the allocations that we have
made in those assets classes and determine whether
we want to make any changes. But importantly we
also want to evaluate asset classes that we haven't

invested in historically and infrastructure represents one of those.

So this is an asset class that we consider real so there were components of the return that are sensitive to inflation and therefore should perform well if inflation picks up.

And in order to explore it in more detail as a part of an Asset Liability Study and make it part of our long-term asset allocation, we really want the Board to understand some of the nuances that come with investing in infrastructure because this is a fairly new asset class.

will walkthrough here. I am shortly going to turn it over to my colleague, Jan Mende, who is a specialist in Real Assets. She is part of Callan's Real Assets Consulting Team so she focuses on all of these asset classes, such as real estate, infrastructure, and helps clients build-out their portfolio in that regard and helps all of Callan's clients think about infrastructure and its characteristics and can help facilitate a discussion of whether or not that makes sense for

the FABF.

So I will turn it over to Jan to talk about infrastructure, both private infrastructure as well as listed or publicly traded infrastructure securities.

We welcome any questions that you have throughout the presentation. As we heard from Trustee McPhillips earlier, we are not asking you to make a decision but really to provide background on just what infrastructure is so that when we do the Asset Liability Study we are in a better position to determine whether or not we want to initiate an allocation to this new asset class.

Jan, I will turn it over to you. As we mentioned, Marc will be advancing the slides so if you just let him know when you are ready to move forward and what slide you'd like to speak to, he will take care of that on your behalf.

MS. MENDE: Great, thanks, everybody, for making time for the educational session here today.

And, Marc, for your help on the tech side here.

My name is Jan. I have been with Callan just about four years but I have been covering the infrastructure space for investors for about ten

years so I have seen it develop during that time period.

As we are talking to our clients about infrastructure and what it is, essentially, it is long-lived assets, which are hard to replicate with defensive income streams and monopoly market positions that are difficult to enter either because of high barriers to entry or regulations there.

The typical sectors where infrastructure managers invest are energy, renewables, water waste, transport, communication, and social.

What I would say is communication was on this list five years ago. It's been a growing part of the sector with the increase in data consumption and all the Nexflix movies and all the Amazon shopping we are doing.

One thing that is different with private infrastructure and private real estate most of our clients access private real estate through the open-end funds which are largely U.S. focused.

Infrastructure has a much more global focus. That being said, a lot of infrastructure managers will talk about the OECD markets, which

1 are the major markets. U.S., U.K., Western
2 European countries.

As we talk to our clients about looking at infrastructure, some people like the fact that they get exposure to non-U.S. currency. Other people see that more of a risk.

So I would say moving on to the risk side, as things change in the world the competitive landscape changes. That infrastructure asset that you thought was a very safe asset may be less useful to you in your portfolio.

For example, people used to invest in coal fired power plants. Nobody really wants to invest in coal so people who owned those assets are dealing with that difficulty right now.

Other risks to consider are interest rate movements could have a big impact on these assets.

In general, infrastructure assets have more leverage than real estate so as interest rates rise it's just magnified in the infrastructure space.

Inflation. This is good as long as you can pass on -- as an infrastructure owner, as you can pass on those higher costs to your clients but it depends on the type of contract structure you

1 We have a little more information about that 2 later. 3 Another risk here currency movements. Wе have some clients who invested in infrastructure 4 5 where the portfolio is in the U.K. or in Europe. 6 And over the past few years the currency volatility 7 there has impacted their quarterly return performance. So that is definitely a consideration 8 9 as we get further on in this process it would be 10 something we would discuss with you. 11 Lastly, this last line here, Black Swan 12 Events. Things you couldn't predict. Everybody 13 thought airports were a growth business and then 14 2020 happened so things you just can't predict in 15 terms of demand. 16 Those are just some high level thoughts 17 that we like to start off as we're looking at this 18 space. 19 Marc, if you could move on to the next 20 slide, please. 21 So when we talk about infrastructure, the 22 core real estate funds that you invested in are 23 what we would call private infrastructure. They 24 are not traded on the public markets.

1 In infrastructure, you can invest in 2 those unlisted funds on the right. But you could 3 also access infrastructure through the public markets, which we refer to as listed here. 4 5 If you invest in the public markets 6 infrastructure, it is pretty easy. These are 7 operating companies you can acquire. They are very liquid and you can trade in and out of them. 8 9 I would say one thing that our clients 10 have found is that they share the volatility of the 11 public markets and that doesn't always do what our clients want this to do for their portfolio. 12 13 Another thing I would say, for both listed and private infrastructure, benchmarking is 14 15 difficult. Although the sector has been around for 16 ten years, there isn't enough data to really 17 provide a benchmark the same way we have for real 18 It is coming, it's just not here yet. estate. We have another slide about listed 19 infrastructure later in the deck that we can talk 20 21 to.

On the right side of the page, you have the unlisted infrastructure funds, which is where I generally focus with our clients.

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Similar to the open-end real estate funds, you can invest in these assets to get long-term income and appreciation, depending on exactly which strategy you choose.

One other point here is the valuation method. For private infrastructure, it is not subject to the public market volatility so last year our clients who had this in their portfolio didn't see as much volatility as they did in their public markets investments.

If you could go on to the next slide, please.

Infrastructure, just to give a little more color on what it is. You see the big tall picture there, that is the cellphone tower relaying all the communications that we all are doing on a daily basis. That asset is going to be around for a while and it is pretty essential for our social and economic part of the economy here.

The top right picture is a water

deceleration plant in Southern California. It took

them about 25 years to build this plant from

permitting it, to designing it, to building it,

et cetera, so it is a pretty defensive asset.

There is not going to be a lot of near term competition on that.

When they developed that plant, they signed a 30-year agreement with the San Diego Water System to provide water and that was a very safe stream of revenue because they know that area needs water and they are going to get that payment from the government.

When people talk about infrastructure, those are the sort of low demand elasticity things that we like to see.

On the bottom right, in the U.K., there are some municipalities that have taken street lighting off of their budget and asked a private manager to manage their streets for them for 20 years and in exchange it simplifies the budget for the local economy. The private manager gets a reliable stream of income and they can leverage it up so that is why infrastructure can be more highly leveraged because you have more high term contracts.

If you could go to the next slide here.

I updated this one, Slide 7 of the PDF I think. It

is "What is the Driver for Global Infrastructure

Investment Today".

And renewable energy targets are a big one we heard a lot about. Data storage, as I mentioned, Netflex, Amazon shopping, requires that and just aging infrastructure.

So if you wanted to have a little bit more data on what exactly you mean by a communication investment. Cellphone towers, data centers, are something that you hear managers talk about.

Power. The wind, solar, hydro biomass, geothermal power are things that people talk about. Honestly, most of it these days is the wind and solar power. The other kinds of assets are a little bit less frequent.

And then moving down, you see waste water is another thing that people talk about as an infrastructure investment. They are very hard to get.

The last one here sustainability. What is that? That is a new category I would say that has really come on in the last five years and it has to do with efficiency being installing systems to monitor energy use or water use to make sure

1 that we are being efficient with those scarce 2 resources. 3 Do you all see Slide 7 here? I just want to make sure. Okay, great, thank you. 4 5 Those are the other sectors that I mentioned before. Transport, energy and social 6 7 infrastructure. In the U.S., I would say social 8 9 infrastructure has been less of an opportunity 10 because it generally relies on public private partnerships, which in the U.S. with 50 states and 11 all of our local and City governments it is 12 13 difficult to get framework to do these efficiently 14 and private infrastructure managers generally find 15 better opportunities in the private businesses in 16 the country. If you could move on to the next page. 17 18 So when we talk about real estate with your clients, we always talk about the region where it 19 20 is located and property type. 21 For infrastructure, I like to say there is kind of a third dimension to think about. 22 23 revenue types and risk. 24 People are attracted to infrastructure as an asset class because it has long-term and stable revenues and that is true but not every asset has the same revenue structure. That is something as I am talking to infrastructure managers I want to understand. Do I really have certainty that I will have income despite economic disruptions like Covid.

as an infrastructure investment. Just because you have a toll road, it doesn't mean it will perform the same way in an economic downturn. If you have a toll road that has availability, base revenue on the left side of this page, you may have a contract with a government that the government will pay you as long as people can drive on that road. Doesn't matter how many people drive or things like that.

As long as that road is usable, then you get paid.

Your payment rate as an owner might be little bit less because it is a very safe revenue but you could also own a toll road and have what I would say is GDP linked revenue. Where if there is an economic downturn and people aren't driving, you don't collect any revenue or much less and you are much more exposed to economic risk.

1 As we talk to infrastructure managers it 2 is always important to understand how they look at 3 revenue risk and what type of revenue risk they would take. Not all toll roads are the same is 4 5 what I would say. 6 If we could go on to the next page, 7 These are just some bar charts here to please. show you where deals are taking place. And on the 8 9 top you see Europe has always been a significant 10 part of the private infrastructure opportunity. 11 North America, that kind of dusty blue on 12 the top, is increasing in its share. 13 I would say as telecom has become a 14 bigger opportunity there has been more investment 15 in the U.S. 16 And then by sector, this one always takes 17 people by surprise, that sort of bright blue in the 18 middle there, that represents renewable investments and renewables comprises a sizable number of the 19 20 deals done in the infrastructure space as people 21 are looking to get cleaner sources of energy. 22 If we could go on to the next slide 23 here, I have some information about renewables. 24 What is driving all of this activity? And the

diagrams on the bottom right there show back in the day you had your power plant and they would transmit the energy to your home. Now there is many different ways to source power. Locally through solar or wind and store it with batteries or other types of things so that is what is driving some of the renewable investments that people have heard about.

I would say renewables as a sector generally has performed well. There have been issues but the performance of that sector has been good and returns have come down significantly in the past ten years.

Renewable assets these days may be a 5 percent return and maybe ten years ago they were closer to 10. As the sector has been proven, people have piled in a bit.

We could go on to the next slide. Key Risks in Infrastructure Investing. We kind of touched on these a bit here.

Regulatory risk is one I always like to just highlight. One example, people who invested in the U.K. water systems thought I am investing in a water asset. Everybody needs water and I am in

1 the U.K. It is a very stable country. I don't 2 have any regulatory risk there but kind of 3 post-Brexit there was a more populus government 4 that came in and they started limiting the amount 5 of profit people could earn from owning these 6 assets and that caused some issues in that space 7 which people didn't expect. They are working through that and for 8 9 people who hold those assets over the long-term the 10 hope is that they will recover value but in the 11 short-term it's been difficult. 12 Revenue. We talked about that. How safe is that revenue? Is it going to fluctuate if there 13 14 are issues with the economy? 15 Leverage. Infrastructure is more highly 16 leveraged than real state so as we wonder what will 17 interest rates do here in the near-term that is 18 consideration for investing in this space. You know, it is the benefit of 19 Currency. 20 investing globally. You get global exposure but 21 you also have to be comfortable with the currency 22 risk that the fund or the program is taking. 23 Then liquidity and exits. I like to talk 24 to infrastructure managers to hear once you own an

1 asset, why do you sell it? What are the things 2 that you think about just to see how they are 3 evaluating risk? 4 These are the some keys things that we 5 like to have people think about as they are looking at the sector. 6 7 If you could go onto the next slide here, This is the Callan capital markets 8 please. 9 assumptions here. A lot of numbers on this page. 10 The return for core infrastructure, based 11 on discussions with our capital markets team and the real assets team, is a long-term return of 6 12 percent compared to 5.75 percent for core real 13 14 assets. 15 But at the same time you look over at the risk for core infrastructure is higher. 16 17 would say that the risk is higher in part because 18 just the interest rate sensitivity for these assets 19 and inflation, how much of that can you pass through to your clients, is something that is a 20 little more of a consideration for infrastructure 21 22 with the long-term structure there. 23 Feel free to jump in, if you have any

questions, but I will just keep moving.

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1 One last slide here, 13. I got a lot of 2 questions in the past year about how did 3 infrastructure do during Covid and the table kind 4 of lays out sectors at the top which were least 5 impacted with Covid and then most impacted down there at the bottom. 6 7 Telecom and digital, in general, with this work from home shift, more demand for again 8 9 Netflex, Amazon, that created a lot of demand for 10 data centers and ways to transmit that data and 11 store the data so it did well. There has been a 12 lot of people looking at the space and it is 13 getting competitive there. 14 Same thing, renewables did well during 15 the pandemic. People still wanted clean power. 16 The sunshine and the wind blew so the renewables 17 were able to deliver on their contracts with their 18 off-takers. Utilities did well as well because we 19 20 were all using electric and water. Maybe in 21 different places than we would have in prior years. 22 We won't go through everything on this 23 slide. 24 Transportation. People watched that

1 sector a lot. In early 2020 airports were shut. 2 Ports kind of had some issues and roads had lower 3 traffic. I would say roads have really come back especially as everybody has been home ordering on 4 5 Amazon. All the trucks on the road. Industrial 6 traffic has held up pretty well. 7 Same things for ports. People have 8 continued to buy and consume so ports had pretty 9 steady traffic. People are sort of predicting 10 Airports. 11 it might not be until 2023 until growth and travel patterns get back to what they were in 2019. We 12 13 will see how that all settles down. 14 MS. SCOTT: Just a quick question. Ιs 15 there an overlap with real estate because you 16 mentioned data centers and I am pretty sure some of 17 our core real estate funds are in data centers. 18 MS. MENDE: That is a great question, I 19 get that as well from my team. I would say there 20 are some data centers that operate more like 21 hotels. They provide everything and people can use

the data center for a shorter period of time.

other data centers where the infrastructure

Maybe a couple of years. But then there are some

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1 operator may provide the building and make sure 2 there is the necessary power that is needed. 3 data centers use a ton of power. infrastructure manager arranges the power and their 4 5 customer may build-out the space for a 10-year 6 contract. 7 So it goes I think to the difference in contract lengths, whether it belongs in a real 8 9 estate bucket or in the infrastructure bucket. 10 That is definitely a crossover sector. 11 good question, thank you. So now if we go one more slide. 12 might have seen this slide before, the relative 13 14 risk and return. 15 Within infrastructure, you can invest 16 across the risk spectrum. You can do 17 infrastructure debt which is a much lower return. 18 I'd say generally it is almost a little bit lower return than real estate debt because it is 19 20 perceived as so safe. 21 Moving up on the risk spectrum, you have 22 core and core plus. I would say that is the way we 23 describe the risk for open-end infrastructure 24 The return is going to be 5 to 7, 8 to 10 funds.

percent net over the long term on an annual basis
for these funds. They are acquiring assets. Ports
that are existing. Airports that are existing.
Renewable power that are existing. And they are
clipping the coupon from the cash flows of those
assets and distributing it to investors, not doing
a lot of development risk.

On the upper right side, the value add and opportunistic strategies, there are what we see in closed-end funds that have a 10-year life.

Where they acquire an asset and they have a plan to double capacity or increase the footprint or take a little bit more risk and have less income in the short-term.

As we are looking at the space with our clients, we work across all of these sectors so if you got to that point we could definitely have further conversations there.

Next slide, please. The institutional infrastructure markets here. As I kind of said earlier, the asset class is global. There are a wider range of options to select from, if you are willing to consider a global portfolio. If folks are only interested in a North American portfolio,

the open-end fund universe as you see here is very small. There are three funds that focus on North America compared to 20 something in the real estate sector that focus on North America.

On the right you see there are five to seven funds that are open-end and look at the global markets there.

On the closed-end fund universe similar. You can see that wider opportunity in the global markets.

Say if you are investing in the U.S., you would have gotten a lot of energy investment. Now you will be seeing more telecom investment coming in and renewables so it is the emerging sector. I think as an infrastructure investor it is probably a good idea to look at the global portfolio so you have access to the widest range of sector types to build a diversified portfolio.

Then on the next slide here, Slide 17, just to show the infrastructure asset class. You see it really started fund raising in 2006 and 2007 and then the financial crisis hit.

I will be honest with you, some of the early infrastructure managers put too much leverage

on their assets because they thought these are safe. I can lever them up. There was some missteps in those days.

People agree, though, that those lessons learned have been taken to heart by the industry and so far it seems that infrastructure assets were a little less leveraged going into the pandemic than they were prior to the global financial crisis.

That was fundraising took off in 2007/2008. Financial crisis hit. Performance wasn't great and over time you can see that fundraising has really increased as people are looking at the sector for this long-term cash flow and the overall appreciation potential.

So maybe just take it here to this last slide on private infrastructure, Slide 18. The benefits are potential for low correlation with the economic cycle. If you have these long term contracts that come rain or shine you will still get paid. With that you get income that is distributable to the investors.

People look at, as Brady said, real assets as an inflation hedge. The diversification

for a global portfolio is something you can get pretty easily with infrastructure and the demand for renewables and decarbonization is driving the sector a bit but there is a lot of other things to do out there.

Considerations. Illiquidity, I would say that those core open-end infrastructure funds generally have a four-year period where once you sign up you can't get out. They want people to stay in as they buildup these portfolios so core real estate I would say is more liquid than that. They don't have that same sort of lockup.

Another consideration, these are very complex businesses and it is a little more difficult to operate than a real estate portfolio in just terms of the contract structure. The operating of a water plant or things like that. So it is really important to pick a strong manager for this.

Other things we have talked about on the right there. The global nature of this asset.

Interest rate risk. Obsolescence risk as I mentioned before with coal fired power plants.

There are benefits and consideration

certainly to this asset class here.

We had a few minutes prepared on listed infrastructure. Brady, should I go ahead and hit that as well? It will be pretty quick.

MR. O'CONNELL: Lorna, how do you feel about that? We have got maybe a couple minutes left to wrap up infrastructure. The listed part I think we could probably skip at this point.

For the committee's perspective, the issue is very similar to real estate where we have that global REIT portfolio that is liquid and it is more like stocks.

Same issue here in infrastructure where you can buy stocks in infrastructure companies but you get the volatility that comes with things that are traded on the stockmarket. Those got marked down a little more than the private infrastructure did in 2020 during the pandemic.

Maybe we can just wrap it up, if there aren't any questions. Jan, I am not sure if you had any concluding remarks. I did have a few points when you are done to reinforce for the committee.

MS. MENDE: No, I think that slide that

Marc has up right now, it lays out there are some real potential benefits and reasons people are attracted to this asset class.

And we have seen clients go into open-end funds and just get exposure to the portfolio of assets. Airports, toll roads, renewables. And they have had some good experience with that but there's been volatility.

I will turn it over to Brady. Thanks everybody, I appreciate your time.

MR. O'CONNELL: Thanks, Jan.

Four quick points just to summarize some key take-aways. One, this is an alternative asset class. This is new. This is growing. We just saw the slide from Jan with the capitals moving in. It is kind of a trendy thing. It is not stocks. It is not bonds. So we would categorize this is as an alternative.

As such, it is not really easy to benchmark. We had some discussion about other alternative investments in the portfolio and how to benchmark them. As we think about creating an allocation and getting an allocation within your investment policy statement, the benchmarking and

the tracking of these investments is going to be more like it is for private equity and real estate than it is for stocks and bonds. Just benchmarking is going to be difficult.

This is a global asset class. So when we invest in a fund we will get exposure throughout the world. Jan showed there are a few that are North America focused but again those invest in infrastructure in Canada in addition to the United States.

Lastly, Jan had mentioned liquidity and exits. So when we did our Asset Liability Study in 2017, there were a lot of caveats about investing in less liquid assets classes like real estate, private equity. And infrastructure is more like those than it is the liquid part of your portfolio.

But the good news is the change that we have seen in 2017 is contributions coming in at the level that we anticipated and if that continues we should have the possibility to take on incremental illiquidity risk.

During the Asset Liability Study, we will test to see how much more we can allocate to core real estate or to private equity. So that will be

a big factor in addition to the characteristics of infrastructure that we heard about just how much more assets FABF can allocate to things we can't sell in a day. So that is a big factor when we think about the private part of the infrastructure market. How much of those illiquid assets can we take on given the cash flow and benefit payment projections that we have.

MEMBER MCPHILLIPS: I have a quick question regarding your comment on the difficulty with benchmarking assets like this.

Would that be somewhat negated in your mind by the fact that these assets kind of overlay very well with our liabilities? They are kind of known and stable and consistent. So even though we may not be able to benchmark and say that, hey, we are doing well, it overlays with our liabilities that we have at the Pension Fund?

MR. O'CONNELL: Yes. So I think that is a good point. Just because we can't benchmark it as well as we can stocks and bond doesn't mean we don't want to invest in it.

There is a slide, if we go to PDF 27, if we go to the private route a lot of the times the

1 benchmark we think about is the CPI or inflation 2 plus a premium. 3 We have got there listed a hypothetical infrastructure of a client. The listed benchmark, 4 5 which is publicly traded infrastructure equities, 6 so we can see that dropped. And then what is more 7 of a long-term theoretical benchmark, we would expect infrastructure to give us 5 percent over 8 9 inflation so that is that CPI plus five. 10 It doesn't mean we can't benchmark it. It is just a little harder to benchmark than it is 11 stocks and bonds. 12 13 MEMBER MCPHILLIPS: Okay. Jan, if you 14 don't mind, I have a quick question for you. 15 On one of your slides you had the various 16 type of assets segregated between North America and 17 I guess the rest of the universe. 18 Under North America, if I am not mistaken, it seemed to indicate that waste water 19 20 and water assets were kind of becoming more popular in North America. Did I read that slide correctly? 21 22 Was it maybe Slide 7, MS. MENDE: Yes. 23 "What is the Driver For Global Investment Today"? 24 I would say that people have always been

| 1  | looking at water and waste water investments. They  |
|----|---|
| 2  | are just so small and scattered it is really hard   |
| 3  | to find them in the scale that investment managers  |
| 4  | want to invest in. So it hasn't worked out to-date  |
| 5  | but there may be more opportunities in the future.  |
| 6  | If municipalities say I need to get this off my     |
| 7  | balance sheet and I want to make sure somebody else |
| 8  | can handle the operation. We have seen some of      |
| 9  | that happening.                                     |
| 10 | MEMBER MCPHILLIPS: Thank you, very much.            |
| 11 | I thought it was a great presentation.              |
| 12 | MS. MENDE: Thanks everybody. I                      |
| 13 | appreciate it.                                      |
| 14 | MR. O'CONNELL: Thanks, Tim.                         |
| 15 | MEMBER MCPHILLIPS: Any questions from               |
| 16 | any other board members for Brady or Jan?           |
| 17 | Otherwise, I think we will move on to our           |
| 18 | next presentation.                                  |
| 19 | MEMBER MURPHY: None from me.                        |
| 20 | MEMBER NANCE-HOLT: None from me.                    |
| 21 | MEMBER MCPHILLIPS: Thank you, very much.            |
| 22 | Before we begin the presentation from our           |
| 23 | managers relating to our core real estate           |
| 24 | allocation, I would like to make a motion to go     |

| 1  | into Executive Session pursuant to Section 2(c)1 to |  |  |  |  |  |
|----|---|--|--|--|--|--|
| 2  | discuss specific investment contracts. Do I have a  |  |  |  |  |  |
| 3  | second?   |  |  |  |  |  |
| 4  | MEMBER NANCE-HOLT: Second.                          |  |  |  |  |  |
| 5  | MEMBER MCPHILLIPS: Lorna, can you please            |  |  |  |  |  |
| 6  | call the roll call?                                 |  |  |  |  |  |
| 7  | MS. SCOTT: Trustee McPhillips.                      |  |  |  |  |  |
| 8  | MEMBER MCPHILLIPS: Yes.                             |  |  |  |  |  |
| 9  | MS. SCOTT: Trustee Nance-Holt.                      |  |  |  |  |  |
| 10 | MEMBER NANCE-HOLT: Yes.                             |  |  |  |  |  |
| 11 | MS. SCOTT: Trustee Murphy.                          |  |  |  |  |  |
| 12 | MEMBER MURPHY: Yes                                  |  |  |  |  |  |
| 13 | MS. SCOTT: Trustee Fortuna.                         |  |  |  |  |  |
| 14 | (No response.)                                      |  |  |  |  |  |
| 15 | MEMBER MCPHILLIPS: Motion passes. We                |  |  |  |  |  |
| 16 | will now proceed to closed session.                 |  |  |  |  |  |
| 17 | (Whereupon, the Board went into                     |  |  |  |  |  |
| 18 | Executive Session off the record.                   |  |  |  |  |  |
| 19 | No action was taken in Executive                    |  |  |  |  |  |
| 20 | Session.)   |  |  |  |  |  |
| 21 | MEMBER CONYEARS-ERVIN: I will just say              |  |  |  |  |  |
| 22 | good morning, trustees, I am here.                  |  |  |  |  |  |
| 23 | MEMBER MCPHILLIPS: I'd like to thank                |  |  |  |  |  |
| 24 | everyone for their presentations.                   |  |  |  |  |  |

| 1  | We will now turn to the public comment            |  |  |  |  |  |
|----|---|--|--|--|--|--|
| 2  | portion of the agenda.                            |  |  |  |  |  |
| 3  | I will quickly state that consistent with         |  |  |  |  |  |
| 4  | Public Act 91-0715 and reasonable constraints     |  |  |  |  |  |
| 5  | determined by the Board of Trustees, at each      |  |  |  |  |  |
| 6  | regular meeting of the Board or it is committees  |  |  |  |  |  |
| 7  | that is open to the public, members of the public |  |  |  |  |  |
| 8  | may request a brief time to address the board or  |  |  |  |  |  |
| 9  | committee on relevant matters within its          |  |  |  |  |  |
| 10 | jurisdiction.                                     |  |  |  |  |  |
| 11 | Are there any requests for public comment         |  |  |  |  |  |
| 12 | today?  |  |  |  |  |  |
| 13 | None.   |  |  |  |  |  |
| 14 | Is there a motion to adjourn today's              |  |  |  |  |  |
| 15 | meeting.  |  |  |  |  |  |
| 16 | MEMBER MURPHY: I make the motion.                 |  |  |  |  |  |
| 17 | MEMBER MCPHILLIPS: Second.                        |  |  |  |  |  |
| 18 | The Investment Committee is now                   |  |  |  |  |  |
| 19 | adjourned.  |  |  |  |  |  |
| 20 |   |  |  |  |  |  |
| 21 | (WHICH WERE ALL THE PROCEEDINGS                   |  |  |  |  |  |
| 22 | IN THE ABOVE-ENTITLED MEETING                     |  |  |  |  |  |
| 23 | AT THIS DATE AND TIME.)                           |  |  |  |  |  |
| 24 |   |  |  |  |  |  |
|    |   |  |  |  |  |  |

| 1  | STATE OF ILLINOIS ) ) SS.                           |
|----|---|
| 2  | COUNTY OF DU PAGE )                                 |
| 3  |   |
| 4  |   |
| 5  |   |
| 6  | DEBORAH TYRRELL, being a Certified Shorthand        |
| 7  | Reporter, on oath says that she is a court reporter |
| 8  | doing business in the County of DuPage and State of |
| 9  | Illinois, that she reported in shorthand the        |
| 10 | proceedings given at the taking of said cause and   |
| 11 | that the foregoing is a true and correct transcript |
| 12 | of her shorthand notes so taken as aforesaid; and   |
| 13 | contains all the proceedings given at said cause.   |
| 14 |   |
| 15 |   |
| 16 |   |
| 17 | <u>Debbie Tyrrell</u><br>Debbie Tyrrell, CSR        |
| 18 | License No. 084-001078                              |
| 19 |   |
| 20 |   |
| 21 |   |
| 22 |   |
| 23 |   |
| 24 |   |
|    |   |

| 1                                 | Α   | American [1] - 24:24                      | base [1] - 16:12                             | buildup [1] - 27:10                      |  |
|-----------------------------------|---|---|--|--|--|
| <b>1-113.18</b> [1] - 4:11        | <b>a.m</b> [1] - 1:15                                     | amount [1] - 19:4<br>Analyst [1] - 2:13   | based [1] - 20:10<br>basis [2] - 12:17, 24:1 | BURKE [1] - 2:10<br>BURNS [1] - 2:10     |  |
| <b>10</b> [2] - 18:16, 23:24      | <b>a.iii</b> [1] - 1.15<br><b>able</b> [2] - 21:17, 31:16 | AND [3] - 1:3, 2:10,                      | batteries [1] - 18:5                         | business [1] - 10:13                     |  |
| <b>10</b> -year [2] - 23:5,       | <b>ABOVE</b> [1] - 35:22                                  | 35:23                                     | become [1] - 17:13                           | businesses [2] -                         |  |
| 24:10                             | above-entitled [1] -                                      | ANNETTE [1] - 2:8                         | becoming [1] - 32:20                         | 15:15, 27:14                             |  |
| <b>101-0640</b> [1] - 3:16        | 1:11  | annual [2] - 4:10, 24:1                   | BEFORE [1] - 1:1                             | buy [2] - 22:8, 28:14                    |  |
| <b>13</b> [1] - 21:1              | ABOVE-ENTITLED [1]  | Annuitant [1] - 2:4                       | begin [1] - 33:22                            | BY [1] - 2:11                            |  |
| <b>16</b> [2] <b>-</b> 1:14, 5:16 | - 35:22   | ANNUITY [1] - 1:3                         | behalf [1] - 7:18                            | <b>51</b> [1] 2.11                       |  |
| <b>17</b> [1] - 25:19             | access [3] - 8:20,  | anticipated [1] - 30:19                   | belongs [1] - 23:8                           | С  |  |
| <b>18</b> [1] - 26:17             | 11:3, 25:17   | APPEARANCES[1] -                          | benchmark [10] -                             |  |  |
|                                   | accordance [1] - 4:1                                      | 2:1                                       | 11:17, 29:20, 29:22,                         | California [1] - 12:21                   |  |
| 2                                 | acquire [2] - 11:7,                                       | apply [1] - 5:8                           | 31:16, 31:20, 32:1,                          | Callan [3] - 4:17, 7:22,                 |  |
|                                   | 24:11   | appreciate [2] - 29:10,                   | 32:4, 32:7, 32:10,                           | 20:8                                     |  |
| <b>2(c)1</b> [1] - 34:1           | acquiring [1] - 24:2                                      | 33:13                                     | 32:11  | Callan's [2] - 6:17,                     |  |
| <b>20</b> [3] - 1:12, 13:15,      | Act [4] - 3:16, 3:18,                                     | appreciation [2] -                        | benchmarking [4] -                           | 6:21                                     |  |
| 25:3                              | 4:1, 35:4   | 12:3, 26:15                               | 11:14, 29:24, 30:3,                          | Canada [1] - 30:9                        |  |
| <b>2006</b> [1] - 25:21           | acted [1] - 3:18  | approval [1] - 4:4                        | 31:11  | capacity [1] - 24:12                     |  |
| <b>2007</b> [1] - 25:21           | action [1] - 34:19  | area [1] - 13:6                           | benefit [2] - 19:19,                         | capital [2] - 20:8,                      |  |
| <b>2007/2008</b> [1] - 26:11      | actionable [1] - 4:8                                      | arranges [1] - 23:4                       | 31:7   | 20:11                                    |  |
| <b>2017</b> [2] - 30:13, 30:18    | <b>Active</b> [3] - 2:5, 2:6,                             | <b>Asset</b> [6] - 5:2, 5:20,             | <b>BENEFIT</b> [1] - 1:3                     | capitals [1] - 29:15                     |  |
| <b>2019</b> [1] - 22:12           | 2:8   | 6:9, 7:11, 30:12,                         | benefits [3] - 26:18,                        | care [1] - 7:18                          |  |
| <b>2020</b> [3] - 10:14, 22:1,    | activity [1] - 17:24                                      | 30:22                                     | 27:24, 29:2                                  | <b>cash</b> [3] - 24:5, 26:14,           |  |
| 28:18                             | <b>add</b> [1] - 24:8                                     | <b>asset</b> [24] - 5:6, 5:15,            | better [2] - 7:11, 15:15                     | 31:7                                     |  |
| <b>2021</b> [2] - 1:14, 3:5       | added [4] - 5:5, 5:9,                                     | 5:24, 6:3, 6:10, 6:13,                    | between [1] - 32:16                          | categorize [1] - 29:17                   |  |
| <b>2023</b> [1] - 22:11           | 5:11, 5:13  | 6:19, 7:13, 9:9, 9:10,                    | <b>big</b> [5] - 9:17, 12:14,                | category [1] - 14:21                     |  |
| <b>25</b> [1] - 12:22             | addition [2] - 30:9,                                      | 12:17, 12:24, 16:1,<br>16:2, 18:24, 20:1, | 14:2, 31:1, 31:4                             | Category [1] - 5:7<br>caused [1] - 19:6  |  |
| <b>27</b> [1] - 31:23             | 31:1  | 24:11, 24:21, 25:20,                      | bigger [1] - 17:14<br>biomass [1] - 14:11    | caveats [1] - 30:13                      |  |
| 3                                 | address [1] - 35:8<br>adjourn [1] - 35:14                 | 27:21, 28:1, 29:3,                        | <b>bit</b> [8] - 14:6, 14:15,                | cellphone [2] - 12:15,                   |  |
| 3                                 | adjourned [1] - 35:19                                     | 29:13, 30:5                               | 16:19, 18:17, 18:20,                         | 14:8                                     |  |
| <b>30</b> [1] - 3:5               | advancing [1] - 7:15                                      | <b>Assets</b> [3] - 5:7, 6:17,            | 23:18, 24:13, 27:4                           | center [1] - 22:22                       |  |
| <b>30-year</b> [1] - 13:4         | agenda [3] - 4:14,  | 6:18                                      | Black [1] - 10:11                            | centers [7] - 14:9,                      |  |
| <b>300</b> [1] <b>-</b> 1:12      | 4:15, 35:2  | assets [26] - 5:22, 8:5,                  | blew [1] - 21:16                             | 21:10, 22:16, 22:17,                     |  |
|                                   | aging [1] - 14:5  | 9:14, 9:17, 9:18,                         | blue [2] - 17:11, 17:17                      | 22:20, 22:24, 23:3                       |  |
| 5                                 | <b>ago</b> [3] - 5:5, 8:14,                               | 12:2, 14:14, 18:14,                       | <b>BOARD</b> [2] - 1:2, 2:9                  | certainly [1] - 28:1                     |  |
| <b>F</b> 40.45.00.04              | 18:15   | 19:6, 19:9, 20:12,                        | <b>board</b> [2] - 33:16, 35:8               | certainty [1] - 16:5                     |  |
| <b>5</b> [3] - 18:15, 23:24,      | agree [1] - 26:4  | 20:14, 20:18, 24:2,                       | <b>Board</b> [5] - 5:1, 6:11,                | cetera [1] - 12:24                       |  |
| 32:8                              | agreement [1] - 13:4                                      | 24:6, 26:1, 26:6,                         | 34:17, 35:5, 35:6                            | <b>Chairman</b> [2] - 2:6,               |  |
| <b>5.75</b> [1] - 20:13           | ahead [1] - 28:3  | 26:24, 29:6, 30:14,                       | <b>BOECKMAN</b> [1] - 2:11                   | 3:2                                      |  |
| <b>50</b> [1] - 15:11             | airports [5] - 10:13,                                     | 31:3, 31:6, 31:11,<br>31:13, 32:16, 32:20 | bond [1] - 31:21                             | <b>change</b> [2] - 9:8,                 |  |
| 6                                 | 22:1, 22:10, 24:3,  | assumptions [1] -                         | <b>bonds</b> [3] - 29:17,                    | 30:17                                    |  |
| <u> </u>                          | 29:6  | 20:9                                      | 30:3, 32:12<br><b>bottom</b> [3] - 13:12,    | <b>changes</b> [2] <b>-</b> 5:23,<br>9:9 |  |
| <b>6</b> [1] <b>-</b> 20:12       | ALL [1] - 35:21<br>allocate [2] - 30:23,                  | <b>AT</b> [1] - 35:23                     | 18:1, 21:6                                   | characteristics [2] -                    |  |
|                                   | 31:3  | <b>ATTORNEYS</b> [1] - 2:9                | Brady [5] - 4:18,                            | 6:23, 31:1                               |  |
| 7                                 | allocation [5] - 6:10,                                    | attracted [2] - 15:24,                    | 26:23, 28:3, 29:9,                           | charts [1] - 17:7                        |  |
| <b>-</b> 40.00 45.0               | 7:13, 29:23, 33:24  | 29:3                                      | 33:16  | CHICAGO [1] - 1:3                        |  |
| <b>7</b> [4] - 13:23, 15:3,       | allocations [1] - 5:21                                    | audio [2] - 3:17, 3:20                    | Brexit [1] - 19:3                            | Chicago [1] - 1:13                       |  |
| 23:24, 32:22                      | allows [1] - 3:16   | audio/video [1] - 1:11                    | <b>brief</b> [1] - 35:8                      | Chief [1] - 2:12                         |  |
| <b>7-1-21</b> [1] - 2:14          | almost [1] - 23:18  | availability [1] - 16:12                  | bright [1] - 17:17                           | <b>choose</b> [1] - 12:4                 |  |
| 8                                 | <b>ALSO</b> [1] - 2:12                                    | available [1] - 4:4                       | bucket [2] - 23:9                            | City [4] - 1:13, 2:7,                    |  |
| 0                                 | alternative [3] - 29:13,                                  | aways [1] - 29:13                         | budget [2] - 13:14,                          | 2:13, 15:12                              |  |
| <b>8</b> [1] - 23:24              | 29:18, 29:21  | Р   | 13:16  | Clark [1] - 1:12                         |  |
| · -                               | <b>Amazon</b> [4] - 8:16,                                 | В   | <b>build</b> [4] - 6:20, 12:22,              | class [10] - 6:3, 6:13,                  |  |
| 9                                 | 14:4, 21:9, 22:5  | background [1] - 7:9                      | 23:5, 25:18                                  | 7:13, 16:1, 24:21,                       |  |
|                                   | America [7] - 17:11,                                      | balance [1] - 33:7                        | build-out [2] - 6:20,                        | 25:20, 28:1, 29:3,<br>29:14, 30:5        |  |
| <b>91-0715</b> [1] - 35:4         | 25:3, 25:4, 30:8,   | bar [1] - 17:7                            | 23:5<br><b>building</b> [2] - 12:23,         | classes [5] - 5:6, 5:22,                 |  |
| <b>9:30</b> [1] - 1:15            | 32:16, 32:18, 32:21                                       | barriers [1] - 8:8                        | 23:1   | 5:24, 6:19, 30:14                        |  |
|                                   |   |   |  | 5.2., 5.10, 55.17                        |  |
| DEBBIE TYRRELL REPORTING SERVICE  |   |   |  |  |  |

clean [1] - 21:15 cleaner [1] - 17:21 client [1] - 32:4 clients [15] - 6:20, 6:22, 8:3, 8:20, 9:3, 9:23, 10:4, 11:9, 11:12, 11:24, 12:8, 15:19, 20:20, 24:16, clipping [1] - 24:5 closed [3] - 24:10, 25:8, 34:16 closed-end [2] -24:10, 25:8 closer [1] - 18:16 coal [3] - 9:13, 9:14, 27:23 Code [1] - 4:11 colleague [1] - 6:16 collect [1] - 16:23 color [1] - 12:14 comfortable [1] -19:21 coming [3] - 11:18, 25:13, 30:18 commencing [1] -1:14 comment [3] - 31:10, 35:1, 35:11 comments [1] - 3:14 **COMMITTEE** [2] - 1:7, committee [2] - 28:23, 35.9 Committee [7] - 2:6, 3:2, 3:3, 3:5, 4:14, 5:1. 35:18 committee's [1] - 28:9 **committees** [1] - 35:6 commodities [1] -5:16 communication [3] -8:12, 8:13, 14:8 communications [1] -12:16 companies [2] - 11:7, 28:14 compared [2] - 20:13, 25:3 competition [1] - 13:2 competitive [2] - 9:8, 21:13 complex [1] - 27:14 **component** [1] - 5:15 components [1] - 6:4 comprises [1] - 17:19 concluding [1] - 28:21 conducted [1] - 3:17 conference [2] - 3:17, 3:21

consider [3] - 6:4, 9:16, 24:23 consideration [5] -10:8. 19:18. 20:21. 27:13. 27:24 considerations [1] -27.6 consistent [2] - 31:15, 35:3 constraints [1] - 35:4 **Consulting** [1] - 6:18 consume [1] - 22:8 consumption [1] -8:15 continue [2] - 3:21, 5:19 continued [1] - 22:8 continues [1] - 30:19 contract [5] - 9:24, 16:13, 23:6, 23:8, 27:16 contracts [4] - 13:21, 21:17, 26:20, 34:2 contributions [1] -30:18 convene [1] - 3:4 conversations [1] -24:18 CONYEARS [2] - 2:7, 34.21 **CONYEARS-ERVIN** [2] - 2:7, 34:21 Cook [1] - 1:13 core [12] - 5:9, 10:22, 20:10, 20:13, 20:16, 22:17, 23:22, 27:7, 27:10, 30:23, 33:23 correctly [1] - 32:21 correlation [1] - 26:18 costs [1] - 9:23 countries [1] - 9:2 country [2] - 15:16, 19:1 County [1] - 1:13 couple [3] - 4:24, 22:23, 28:6 coupon [1] - 24:5 covering [1] - 7:23 Covid [3] - 16:7, 21:3, 21:5 CPI [2] - 32:1, 32:9 created [1] - 21:9 creating [1] - 29:22 crisis [3] - 25:22, 26:9, 26:11 crossover [1] - 23:10 currency [5] - 9:5, 10:3, 10:6, 19:19,

customer [1] - 23:5

19:21

cycle [1] - 26:19 D daily [1] - 12:17 **DANIEL** [1] - 2:3 data [14] - 8:15, 11:16. 14:3. 14:7. 14:8. 21:10, 21:11, 22:16, 22:17, 22:20, 22:22, 22:24, 23:3 **DATE**[1] - 35:23 date [1] - 33:4 days [3] - 14:13, 18:14, 26:3 dealing [1] - 9:15 deals [2] - 17:8, 17:20 debt [2] - 23:17, 23:19 decarbonization [1] -27:3 deceleration [1] -12.21 decision [1] - 7:9 deck [1] - 11:20 defensive [2] - 8:6, 12:24 definitely [3] - 10:8,

23:10, 24:17 deliver [1] - 21:17 demand [5] - 10:15, 13:10, 21:8, 21:9, 27:2 describe [1] - 23:23 **designing** [1] - 12:23 despite [1] - 16:6 detail [2] - 5:2, 6:8 determine [2] - 5:22, 7:12 **determined** [1] - 35:5

develop [1] - 8:1 developed [1] - 13:3 development [1] -24.7 diagrams [1] - 18:1 **Diego** [1] - 13:4

difference [1] - 23:7 different [3] - 8:18, 18:4, 21:21 difficult [6] - 8:7,

11:15, 15:13, 19:11, 27:15, 30:4 difficulty [2] - 9:15,

31:10 digital [1] - 21:7 dimension [1] - 15:22

Director [1] - 2:14 discuss [2] - 10:10,

discussion [3] - 5:17, 6:24, 29:20

discussions [1] -20.11 disruptions [1] - 16:6 distributable [1] -

26:22 distributing [1] - 24:6 diversification [1] -26:24

diversified [1] - 25:18 docs [1] - 4:22 done [2] - 17:20, 28:22

double [1] - 24:12 down [5] - 14:16. 18:12, 21:5, 22:13, 28:17

downturn [2] - 16:11, 16:22 drive [2] - 16:15, 16:16

Driver [2] - 13:24, 32:23 driving [4] - 16:22, 17:24, 18:6, 27:3 dropped [1] - 32:6

due [1] - 3:21 during [5] - 8:1, 21:3,

21:14, 28:18, 30:22 dusty [1] - 17:11

Ε

early [2] - 22:1, 25:24 earn [1] - 19:5 easily [1] - 27:2 easy [2] - 11:6, 29:19 economic [6] - 12:19, 16:6, 16:11, 16:22, 16:24, 26:19 economy [3] - 12:19, 13:17, 19:14 education [1] - 4:22 educational [3] - 4:7, 4:13, 7:20 efficiency [1] - 14:23 efficient [1] - 15:1 efficiently [1] - 15:13 either [1] - 8:7 elasticity [1] - 13:10 electric [1] - 21:20 emerging [1] - 25:14 end [9] - 8:21, 12:1, 23:23, 24:10, 25:1, 25:6, 25:8, 27:7, 29:4

energy [7] - 8:11, 14:2, 14:24, 15:6, 17:21, 18:3, 25:12 enter [1] - 8:7

entitled [1] - 1:11 **ENTITLED**[1] - 35:22 entry [1] - 8:8 **equities** [1] - 32:5 equity [3] - 30:2, 30:15, 30:24 ERVIN [2] - 2:7, 34:21

especially [1] - 22:4 essential [1] - 12:18 essentially [1] - 8:4 estate [21] - 5:10, 6:19, 8:19, 8:20,

9:19, 10:22, 11:18, 12:1, 15:18, 22:15, 22:17, 23:9, 23:19,

25:3, 27:11, 27:15, 28:10, 30:2, 30:14, 30:24, 33:23

Estate [1] - 5:11 et [1] - 12:24

**Europe** [2] - 10:5, 17:9 **European** [1] - 9:2 evaluate [1] - 5:24 evaluating [1] - 20:3 Events [1] - 10:12

exactly [2] - 12:4, 14:7 example [2] - 9:12, 18:22

exchange [1] - 13:16 Executive [4] - 2:14, 34:1, 34:18, 34:19 existing [3] - 24:3, 24:4

exits [2] - 19:23, 30:12 expect [2] - 19:7, 32:8 **experience** [1] - 29:7 **explore** [2] - 5:2, 6:8

exposed [1] - 16:24 exposure [4] - 9:5, 19:20, 29:5, 30:6

F

FABF [2] - 7:1, 31:3 facilitate [1] - 6:23 fact [2] - 9:4, 31:13 factor [2] - 31:1, 31:4 **fairly** [1] - 6:13 far [1] - 26:6 few [4] - 10:6, 28:2, 28:21, 30:7 finance [1] - 5:8 financial [3] - 25:22, 26:8, 26:11 fired [2] - 9:13, 27:23 FIREMEN'S [1] - 1:3 first [2] - 4:15, 4:21 five [5] - 5:5, 8:14, 14:22, 25:5, 32:9 flow [2] - 26:14, 31:7

flows [1] - 24:5

fluctuate [1] - 19:13

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(630) 292-1742

focus [4] - 8:23, 11:24, 25:2, 25:4 focused [3] - 4:7, 8:21, 30:8 focuses [1] - 6:18 **folks** [1] - 24:23 footprint [1] - 24:12 FOR [1] - 2:9 **FORTUNA** [2] - 2:3, Fortuna [2] - 3:11, 34:13 forward [1] - 7:17 four 131 - 7:23. 27:8. 29:12 four-year [1] - 27:8 framework [1] - 15:13 free [1] - 20:23 frequent [1] - 14:15 fulfill [1] - 4:10 **FUND** [1] - 1:3 **Fund** [1] - 31:18 fund [5] - 19:22, 25:1, 25:8, 25:21, 30:6 Fund's [1] - 4:4 fundraising [2] -26:10, 26:13 funds [13] - 8:21, 10:22, 11:2, 11:23, 12:2, 22:17, 23:24, 24:2, 24:10, 25:2, 25:6, 27:7, 29:5 future [1] - 33:5

## G

GDP [1] - 16:21 general [2] - 9:18, generally [6] - 11:24, 15:10, 15:14, 18:10, 23:18, 27:8 geothermal [1] - 14:12 given [1] - 31:7 global [13] - 5:11, 8:22, 19:20, 24:21, 24:23, 25:7, 25:9, 25:16, 26:8, 27:1, 27:21, 28:11, 30:5 Global [2] - 13:24, 32:23 globally [1] - 19:20 government [4] - 13:8, 16:14, 19:3 governments [1] -15:12 great [5] - 7:19, 15:4, 22:18, 26:12, 33:11 growing [2] - 8:14,

29:14

growth [2] - 10:13, 22.11 guess [1] - 32:17

half [1] - 4:20

33:2

handle [1] - 33:8

harder [1] - 32:11

hard [3] - 8:5, 14:18,

## Н

hear [3] - 14:9, 16:8, 19:24 heard [4] - 7:7, 14:3, 18:8, 31:2 hearing [1] - 5:10 heart [1] - 26:5 hedge [1] - 26:24 held [2] - 1:12, 22:6 help [2] - 6:23, 7:21 helps [2] - 6:20, 6:21 hereby [1] - 3:4 high [3] - 8:8, 10:16, 13:20 higher [3] - 9:23, 20:16, 20:17 highlight [1] - 18:22 highly [2] - 13:19, 19:15 historically [1] - 6:1 hit [3] - 25:22, 26:11, 28:3 hold [1] - 19:9 Holt [1] - 34:9 **HOLT** [4] - 2:8, 33:20, 34:4, 34:10 home [3] - 18:3, 21:8, 22:4 honest [1] - 25:23 honestly [1] - 14:13 hope [1] - 19:10 hotels [1] - 22:21 hour [1] - 1:14 hydro [1] - 14:11 hypothetical [1] - 32:3

Illinois [2] - 1:14, 4:11 illiquid [1] - 31:6 illiquidity [2] - 27:6, 30:21 impact [1] - 9:17 impacted [3] - 10:7, 21.5 important [2] - 17:2, 27:18 importantly [1] - 5:23

IN [2] - 1:7, 35:22

ı

idea [1] - 25:16

income [6] - 8:6, 12:3, 13:18, 16:6, 24:13, 26:21 increase [2] - 8:15, 24:12 increased [1] - 26:13 increasing [1] - 17:12 incremental [1] -30:20 indicate [1] - 32:19 Industrial [1] - 22:5 industry [1] - 26:5 inflation [9] - 5:9, 5:12. 6:5. 6:6. 9:21. 20:19. 26:24. 32:1. 32:9 Inflation [1] - 5:14 Inflation-Protected [1] - 5:14 **information** [2] - 10:1, 17:23 infrastructure [78] -4:16, 4:22, 6:1, 6:12, 6:20, 6:22, 7:3, 7:4, 7:10, 7:24, 8:4, 8:10, 8:19, 8:22, 8:23, 9:4, 9:9, 9:18, 9:20, 9:22, 10:4, 10:21, 10:23, 11:1, 11:3, 11:6, 11:14, 11:20, 11:23, 12:6, 12:13, 13:9, 13:19, 14:5, 14:18, 15:7, 15:9, 15:14, 15:21, 15:24, 16:4, 16:9, 17:1, 17:10, 17:20, 19:15, 19:24, 20:10, 20:16, 20:21, 21:3, 22:24, 23:4, 23:9, 23:15, 23:17, 23:23, 24:20, 25:15, 25:20, 25:24, 26:6, 26:17, 27:2, 27:7, 28:3, 28:7, 28:13, 28:14, 28:17, 30:9, 30:15, 31:2, 31:5, 32:4, 32:5, 32:8 Infrastructure [2] -13:24, 18:19 initiate [1] - 7:13 **installing** [1] - 14:23 institutional [1] -24:19 interest [5] - 9:16, 9:19, 19:17, 20:18, 27:22

30:6, 30:8, 31:22, 33:4 invested [4] - 6:1, 10:4, 10:22, 18:22 investing [6] - 6:12, 18:23, 19:18, 19:20, 25:11. 30:13 Investing [1] - 18:19 investment [11] - 4:7, 4:16, 14:8, 14:18, 16:9, 17:14, 25:12, 25:13, 29:24, 33:3, 34:2 INVESTMENT[1] - 1:7 Investment [8] - 2:6, 2:12, 3:3, 3:4, 5:12, 14:1, 32:23, 35:18 investments [6] -12:10, 17:18, 18:7, 29:21, 30:1, 33:1 investor [1] - 25:15 investors [3] - 7:24, 24:6, 26:22 issue [2] - 28:10, 28.13 issues [5] - 5:1, 18:11, 19:6, 19:14, 22:2 **IT** [1] - 2:13 item [1] - 4:15 J

Jan [11] - 6:16, 7:2, 7:14, 7:22, 28:20, 29:11, 29:15, 30:7, 30:11, 32:13, 33:16 jump [1] - 20:23 **June** [2] - 1:14, 3:5 jurisdiction [1] - 35:10

## K

keep [1] - 20:24 **KELLY** [1] - 2:14 key [1] - 29:13 Key [1] - 18:18 **keys** [1] - 20:4 kind [11] - 15:22, 17:11, 18:19, 19:2, 21:3, 22:2, 24:20, 29:16, 31:13, 31:14, 32:20 kinds [1] - 14:14 known [1] - 31:15

landscape [1] - 9:9 largely [1] - 8:21 last [6] - 10:11, 12:7,

14:20, 14:22, 21:1, 26:16 lastly [2] - 10:11, 30:11 lays [2] - 21:4, 29:1 learned [1] - 26:5 least [1] - 21:4 left [2] - 16:13, 28:7 lengths [1] - 23:8 less [8] - 9:10, 14:15, 15:9, 16:19, 16:23, 24:13, 26:7, 30:14 lessons [1] - 26:4 level [2] - 10:16, 30:19 lever [1] - 26:2 leverage [4] - 9:19, 13:18, 19:15, 25:24 leveraged [3] - 13:20, 19:16, 26:7 liabilities [2] - 31:14, 31:17 **Liability** [6] - 5:3, 5:20, 6:9, 7:11, 30:12, 30:22 life [1] - 24:10 lighting [1] - 13:14 limiting [1] - 19:4 line [1] - 10:11 linked [1] - 16:21 liquid [5] - 11:8, 27:11, 28:11, 30:14, 30:16 liquidity [2] - 19:23, 30:11 list [1] - 8:14 listed [8] - 7:4, 11:4, 11:14, 11:19, 28:2, 28:7, 32:3, 32:4 lived [1] - 8:5 local [2] - 13:17, 15:12 locally [1] - 18:4 located [1] - 15:20 lockup [1] - 27:12 long-lived [1] - 8:5 long-term [8] - 6:10, 12:3, 16:1, 19:9, 20:12, 20:22, 26:14, 32.7 look [6] - 5:21, 17:2, 20:15, 25:6, 25:16, 26:23 looking [8] - 9:3, 10:17, 17:21, 20:5,

21:12, 24:15, 26:14,

**LORNA** [1] - 2:12

Lorna [6] - 3:6, 3:15,

low [2] - 13:10, 26:18

4:12, 4:19, 28:5,

33.1

34.5

-DEBBIE TYRRELL REPORTING SERVICE-

interested [1] - 24:24

invest [11] - 8:11,

9:12, 9:14, 11:1,

11:5, 12:2, 23:15,

introduction [1] - 4:20

17:17, 17:20, 18:7,

lower [3] - 22:2, 23:17, 23:18 LTD [1] - 2:10

### M

magnified [1] - 9:20 major [1] - 9:1 manage [1] - 13:15 manager [4] - 13:15, 13:17, 23:4, 27:18 managers [11] - 5:10, 8:11, 8:24, 14:9, 15:14, 16:4, 17:1, 19:24, 25:24, 33:3, 33:23 Marc [4] - 4:21, 7:15, 7:21, 29:1 MARC [1] - 2:13 marc [1] - 10:19 MARK [1] - 2:13 marked [1] - 28:16 market [3] - 8:6, 12:7, 31.6 markets [12] - 8:24, 9:1, 10:24, 11:4, 11:5, 11:11, 12:10, 20:8, 20:11, 24:20, 25:7, 25:10 **MATTER** [1] - 1:7 matter [3] - 1:12, 3:18, 16:16 matters [2] - 4:7, 35:9 McPhillips [5] - 2:6, 3:3, 3:7, 7:8, 34:7 MCPHILLIPS [13] -3:1, 3:8, 3:13, 31:9, 32:13, 33:10, 33:15, 33:21, 34:5, 34:8, 34:15, 34:23, 35:17 mean [4] - 14:7, 16:10, 31:21, 32:10 **MEETING** [1] - 35:22 meeting [8] - 1:11, 3:5, 3:16, 3:24, 4:2, 4:6, 35:6, 35:15 Meetings [1] - 4:1 MELISSA [1] - 2:7 MEMBER [22] - 3:1, 3:8. 3:10. 3:12. 3:13. 31:9, 32:13, 33:10, 33:15, 33:19, 33:20, 33:21, 34:4, 34:5, 34:8, 34:10, 34:12, 34:15, 34:21, 34:23, 35:16, 35:17 members [2] - 33:16, 35:7 MEMBERS [1] - 2:2

Mende [1] - 6:16

**MENDE** [5] - 7:19, 22:18, 28:24, 32:22, 33:12 mentioned [6] - 7:15, 14:4. 15:6. 22:16. 27:23. 30:11 method [1] - 12:6 middle [1] - 17:18 might [3] - 16:18, 22:11, 23:13 mind [2] - 31:13, 32:14 minute [1] - 4:20 minutes [2] - 28:2, 28:6 missteps [1] - 26:3 mistaken [1] - 32:19 monitor [1] - 14:24 monopoly [1] - 8:6 months [2] - 4:24, 5:17 morning [2] - 3:1, 34:22 most [3] - 8:19, 14:13, 21:5 motion [4] - 33:24, 34:15, 35:14, 35:16 move [4] - 7:16, 10:19, 15:17, 33:17 movements [2] - 9:17, 10:3 movies [1] - 8:16 moving [5] - 9:7, 14:16, 20:24, 23:21, 29:15 MR [5] - 4:19, 28:5, 29:11, 31:19, 33:14 MS [15] - 2:11, 3:7, 3:9, 3:11, 4:15, 7:19, 22:14, 22:18, 28:24, 32:22, 33:12, 34:7, 34:9, 34:11, 34:13 municipalities [2] -13:13, 33:6 MURPHY [5] - 2:5, 3:10, 33:19, 34:12, 35:16

## Ν

MYSLINSKI [1] - 2:13

Murphy [2] - 3:9,

34:11

name [1] - 7:22 NANCE [4] - 2:8, 33:20, 34:4, 34:10 Nance [1] - 34:9 NANCE-HOLT [4] -2:8, 33:20, 34:4, 34:10 Nance-Holt [1] - 34:9 nature [1] - 27:21 near [2] - 13:1, 19:17 near-term [1] - 19:17 necessary [1] - 23:2 need [1] - 33:6 needed [1] - 23:2 needs [2] - 13:6, 18:24 negated [1] - 31:12 net [1] - 24:1 Netflex [2] - 14:4, 21:9 new [5] - 5:6, 6:13, 7:13, 14:21, 29:14 news [1] - 30:17 Nexflix [1] - 8:16 next [12] - 4:23, 10:19, 12:11, 13:22, 15:17, 17:6, 17:22, 18:18, 20:7, 24:19, 25:19, 33:18 nobody [1] - 9:13 non [1] - 9:5 non-U.S [1] - 9:5 none [3] - 33:19, 33:20, 35:13 North [8] - 17:11, 24:24, 25:2, 25:4, 30:8, 32:16, 32:18, 32:21 **note** [1] - 4:6 notice [1] - 3:24 nuances [1] - 6:11 number [2] - 5:6, 17:19 numbers [1] - 20:9

## Ο

O'CONNELL [5] -4:19, 28:5, 29:11, 31:19, 33:14 obsolescence [1] -27.22 **OECD** [1] - 8:24 **OF** [3] - 1:3, 1:7, 1:10 off-takers [1] - 21:18 Office [1] - 2:13 Officer [1] - 2:12 once [2] - 19:24, 27:8 one [14] - 6:2, 8:18, 11:9, 12:5, 13:23, 14:3, 14:20, 17:16, 18:21, 18:22, 21:1, 23:12, 29:13, 32:15 Open [1] - 4:1 open [8] - 8:21, 12:1, 23:23, 25:1, 25:6, 27:7, 29:4, 35:7 open-end [7] - 8:21, 12:1, 23:23, 25:1,

25:6, 27:7, 29:4 operate [2] - 22:20, 27:15 operating [2] - 11:7, 27:17 operation [1] - 33:8 operator [1] - 23:1 opportunistic [1] -24:9 opportunities [2] -15:15, 33:5 **opportunity** [4] - 15:9, 17:10, 17:14, 25:9 options [1] - 24:22 order [1] - 6:8 ordering [1] - 22:4 organizing [1] - 4:12 Otherwise [1] - 33:17 overall [1] - 26:15 overlap [1] - 22:15 overlay [1] - 31:13 overlays [1] - 31:17 overview [1] - 4:16 own [2] - 16:20, 19:24 owned [1] - 9:14 owner [2] - 9:22, 16:18 owning [1] - 19:5

# Ρ

15:17, 16:13, 17:6,

page [5] - 11:22,

20:9 paid [2] - 16:17, 26:21 pandemic [5] - 3:22, 5:18, 21:15, 26:7, 28:18 part [11] - 5:2, 6:9, 6:10, 6:17, 8:14, 12:19, 17:10, 20:17, 28:7, 30:16, 31:5 partnerships [1] -15:11 pass [3] - 9:22, 9:23, 20:19 passes [1] - 34:15 past [4] - 5:16, 10:6, 18:13, 21:2 patterns [1] - 22:12 pay [1] - 16:14 payment [3] - 13:7, 16:18, 31:7 **PDF** [2] - 13:23, 31:23 Pension [2] - 4:11, 31.18 people [32] - 9:4, 9:6, 9:12, 9:14, 13:9, 14:12, 14:17, 15:24, 16:15, 16:16, 16:22,

18:17, 18:22, 19:5, 19:7, 19:9, 20:5, 21:12, 21:15, 21:24, 22:7, 22:10, 22:21, 26:4, 26:13, 26:23, 27:9, 29:2, 32:24 perceived [1] - 23:20 percent [5] - 18:15, 20:13, 24:1, 32:8 perform [2] - 6:6, 16:10 performance [3] -10:8, 18:11, 26:11 performed [2] - 5:18, 18:10 period [3] - 8:2, 22:22, 27:8 permitting [1] - 12:23 perspective [1] - 28:9 physically [1] - 3:22 pick [1] - 27:18 **picks** [1] - 6:6 picture [2] - 12:15, 12:20 piled [1] - 18:17 PINELLI [1] - 2:10 place [1] - 17:8 places [1] - 21:21 plan [1] - 24:11 plant [5] - 12:21, 12:22, 13:3, 18:2, 27.17 **plants** [2] - 9:13, 27:23 **plus** [3] - 23:22, 32:2, 32:9 point [4] - 12:5, 24:17, 28:8, 31:20 points [2] - 28:22, 29:12 policy [1] - 29:24 popular [1] - 32:20 populus [1] - 19:3 portfolio [16] - 5:16, 6:21, 9:11, 10:5, 11:12, 12:8, 24:23, 24:24, 25:16, 25:18, 27:1, 27:15, 28:11, 29:5, 29:21, 30:16 portfolios [1] - 27:10 portion [1] - 35:2 ports [4] - 22:2, 22:7, 22:8, 24:2 position [1] - 7:12 positions [1] - 8:7 **possibility** [1] - 30:20 post [1] - 19:3 post-Brexit [1] - 19:3 posted [1] - 3:24

-DEBBIE TYRRELL REPORTING SERVICE-

potential [3] - 26:15, 26:18, 29:2 power [12] - 9:13, 14:11, 14:12, 14:14, 18:2, 18:4, 21:15, 23:2, 23:3, 23:4, 24:4. 27:23 predict [2] - 10:12, 10:14 predicting [1] - 22:10 premium [1] - 32:2 prepared [3] - 4:3, 6:14, 28:2 PRESENT [1] - 2:12 present [1] - 3:23 presentation [5] -4:17, 7:7, 33:11, 33:18, 33:22 presentations [1] -34:24 **President** [1] - 2:3 pretty [8] - 11:6, 12:18, 12:24, 22:6, 22:8, 22:16, 27:2, 28:4 private [20] - 7:3, 8:18, 8:19, 8:20, 10:23, 11:14, 12:6, 13:14, 13:17, 15:10, 15:14, 15:15, 17:10, 26:17, 28:17, 30:2, 30:15, 30:24, 31:5, 31:24 proceed [2] - 4:14, 34:16 proceeding [1] - 3:20 proceedings [1] - 4:3 PROCEEDINGS [2] -1:10, 35:21 process [1] - 10:9 profit [1] - 19:5 program [1] - 19:22 projections [1] - 31:8 property [1] - 15:20 Protected [1] - 5:14 proven [1] - 18:16 provide [5] - 7:9, 11:17, 13:5, 22:21, 23:1 prudent [1] - 3:22 Public [2] - 3:16, 35:4 public [11] - 10:24, 11:3, 11:5, 11:11, 12:7, 12:10, 15:10, 35:1, 35:7, 35:11 **publicly** [2] - 7:4, 32:5 **pull** [1] - 4:21 pursuant [1] - 34:1 **put** [1] - 25:24

## Q

quarterly [1] - 10:7 quarters [1] - 4:24 questions [5] - 7:6, 20:24, 21:2, 28:20, 33:15 quick [7] - 3:14, 4:20, 22:14, 28:4, 29:12, 31:9, 32:14 quickly [1] - 35:3 quorum [1] - 3:13

## R

rain [1] - 26:20 raising [1] - 25:21 range [2] - 24:22, 25:17 rate [4] - 9:16, 16:18, 20:18, 27:22 rates [2] - 9:19, 19:17 read [1] - 32:21 ready [1] - 7:16 Real [5] - 5:7, 5:11, 6:17, 6:18 real [28] - 5:9, 5:15, 6:4, 6:19, 8:19, 8:20, 9:19, 10:22, 11:17, 12:1, 15:18, 19:16, 20:12, 20:13, 22:15, 22:17, 23:8, 23:19, 25:3. 26:23. 27:11. 27:15, 28:10, 29:2, 30:2, 30:14, 30:24, 33:23 really [13] - 5:17, 6:10, 7:9, 9:13, 11:16, 14:22, 16:5, 22:3. 25:21, 26:13, 27:18, 29:19, 33:2 reasonable [1] - 35:4 reasons [1] - 29:2 record [2] - 3:14, 34:18 recorded [1] - 4:2 recover [1] - 19:10 refer [1] - 11:4 regard [1] - 6:21 regarding [1] - 31:10 region [1] - 15:19 regular [1] - 35:6 regulations [1] - 8:8 regulatory [2] - 18:21, 19:2 reinforce [1] - 28:22 **REIT** [1] - 28:11 **REITS** [1] - 5:11 relating [1] - 33:23

relative [1] - 23:13

relevant [1] - 35:9 reliable [1] - 13:18 relies [1] - 15:10 remarks [1] - 28:21 renewable [5] - 14:2, 17:18, 18:7, 18:14, 24.4 renewables [9] - 8:11, 17:19, 17:23, 18:9, 21:14, 21:16, 25:14, 27:3, 29:6 replicate [1] - 8:5 **REPORT**[1] - 1:10 represents [2] - 6:2, 17:18 request [1] - 35:8 requests [1] - 35:11 required [1] - 4:9 requirements [1] -4:10 requires [2] - 3:18, 14:4 resources [1] - 15:2 response [1] - 34:14 rest [1] - 32:17 RETIREMENT [1] - 1:2 return [9] - 6:5, 10:7, 18:15, 20:10, 20:12, 23:14, 23:17, 23:19, 23:24 returns [1] - 18:12 revenue [11] - 13:6, 15:23, 16:3, 16:12, 16:19, 16:21, 16:23, 17:3, 19:12, 19:13 revenues [1] - 16:2 rise [1] - 9:19 risk [22] - 9:6, 9:7, 10:3, 15:23, 16:24, 17:3, 18:21, 19:2, 19:22, 20:3, 20:16, 20:17, 23:14, 23:16, 23:21, 23:23, 24:7, 24:13, 27:22, 30:21 **Risks** [1] - 18:19 risks [1] - 9:16 road [6] - 16:10, 16:12, 16:15, 16:17, 16:20, 22:5 roads [5] - 16:8, 17:4, 22:2, 22:3, 29:6 roll [3] - 3:6, 3:18, 34:6 route [1] - 31:24

relaying [1] - 12:15

# S

**safe** [6] - 9:10, 13:5, 16:19, 19:12, 23:20,

26:2 San [1] - 13:4 SARAH[1] - 2:11 saw [1] - 29:14 scale [1] - 33:3 scarce [1] - 15:1 scattered [1] - 33:2 **SCOTT** [9] - 2:12, 3:9, 3:11, 4:15, 22:14, 34:7, 34:9, 34:11, 34:13 **sCOTT**[1] - 3:7 second [3] - 34:3, 34:4. 35:17 Secretary [1] - 2:5 Section [2] - 4:11, 34:1 **sector** [14] - 8:15, 11:15, 17:16, 18:9, 18:11, 18:16, 20:6, 22:1, 23:10, 25:4, 25:14, 25:17, 26:14, 27:4 sectors [4] - 8:10, 15:5, 21:4, 24:16 securities [1] - 7:5 **Securities** [1] - 5:14 see [17] - 9:6, 12:9, 12:14, 13:11, 14:16, 15:3, 17:9, 20:2, 22:13, 24:9, 25:1, 25:5, 25:9, 25:21, 26:12, 30:23, 32:6 seeing [1] - 25:13 segregated [1] - 32:16 select [1] - 24:22 sell [2] - 20:1, 31:4 sense [1] - 6:24 **sensitive** [1] - 6:5 sensitivity [3] - 5:9, 5:13, 20:18 session [3] - 4:13, 7:20, 34:16 Session [3] - 34:1, 34:18, 34:20 set [1] - 4:21 settles [1] - 22:13 seven [1] - 25:6 share [2] - 11:10, 17:12 sheet [1] - 33:7 **shift** [1] - 21:8 **shine** [1] - 26:20

shopping [2] - 8:17,

short-term [2] - 19:11,

short [2] - 19:11,

shorter [1] - 22:22

14:4

24:14

24:14

**shortly** [1] - 6:15 **show** [3] - 17:8, 18:1, 25:20 **showed** [1] - 30:7 shut [1] - 22:1 side [5] - 7:21, 9:8, 11:22, 16:13, 24:8 sign [1] - 27:9 signed [1] - 13:4 significant [1] - 17:9 significantly [1] -18:12 similar [3] - 12:1, 25:8, 28:10 **simplifies** [1] - 13:16 sizable [1] - 17:19 **skip** [1] - 28:8 Slide [5] - 13:23, 15:3, 25:19, 26:17, 32:22 slide [20] - 4:21, 7:17, 10:20, 11:19, 12:11, 13:22, 17:22, 18:18, 20:7, 21:1, 21:23, 23:12, 23:13, 24:19, 25:19, 26:17, 28:24, 29:15, 31:23, 32:21 slides [3] - 6:14, 7:15, 32:15 small [2] - 25:2, 33:2 social [4] - 8:12, 12:18, 15:6, 15:8 solar [3] - 14:11, 14:14, 18:5 solely [1] - 4:7 somewhat [1] - 31:12 sort [4] - 13:10, 17:17, 22:10, 27:12 source [1] - 18:4 sources [1] - 17:21 South [1] - 1:12 Southern [1] - 12:21 space [10] - 3:23, 7:24, 9:20, 10:18, 17:20, 19:6, 19:18, 21:12, 23:5, 24:15 **specialist** [1] - 6:17 **specific** [1] - 34:2 spectrum [2] - 23:16, 23:21 spend [1] - 4:24 stable [3] - 16:1, 19:1, 31.15 start [1] - 10:17 started [2] - 19:4, 25:21 State [1] - 1:13 state [2] - 19:16, 35:3 statement [1] - 29:24

States [1] - 30:10

states [1] - 15:11

-DEBBIE TYRRELL REPORTING SERVICE-

stay [1] - 27:10 steady [1] - 22:9 STENOGRAPHIC[1] -1.10 still [2] - 21:15, 26:20 stockmarket [1] -28:16 stocks [6] - 28:12, 28:14, 29:16, 30:3, 31:21, 32:12 storage [1] - 14:3 store [2] - 18:5, 21:11 strategies [1] - 24:9 strategy [1] - 12:4 stream [2] - 13:6, 13:18 streams [1] - 8:6 street [1] - 13:13 Street [1] - 1:12 **streets** [1] - 13:15 strong [1] - 27:18 structure [4] - 9:24, 16:3, 20:22, 27:16 **Study** [6] - 5:3, 5:21, 6:9, 7:11, 30:12, 30.22 subject [1] - 12:7 **Suite** [1] - 1:12 **summarize** [1] - 29:12 sunshine [1] - 21:16 surprise [1] - 17:17 sustainability [1] -14:20 Swan [1] - 10:11 System [1] - 13:5 systems [2] - 14:23, 18:23

## Т

22:9

21:10

15.6

21:24

training [1] - 4:10

transcript [1] - 4:2

transmit [2] - 18:3,

transport [2] - 8:12,

transportation [1] -

travel [1] - 22:11

Treasurer [1] - 2:7

Treasury [1] - 5:14

trendy [1] - 29:16

trucks [1] - 22:5

trustee [4] - 34:7,

34:9, 34:11, 34:13

Trustee [8] - 2:4, 2:5,

2:6, 2:8, 3:7, 3:9,

true [1] - 16:2

3:11, 7:8

Treasurer's [1] - 2:13

table [1] - 21:3 take-aways [1] - 29:13 takers [1] - 21:18 tall [1] - 12:14 targets [1] - 14:2 team [3] - 20:11, 20:12, 22:19 Team [1] - 6:18 tech [1] - 7:21 telecom [3] - 17:13, 21:7, 25:13 ten [4] - 7:24, 11:16, 18:13, 18:15 term [16] - 5:7, 6:10, 12:3, 13:1, 13:20, 16:1, 19:9, 19:11, 19:17, 20:12, 20:22, 24:1, 24:14, 26:14, 26:19, 32:7 terms [2] - 10:15,

27:16 test [1] - 30:23 **THE** [5] - 1:2, 1:7, 2:9, 35:21, 35:22 theoretical [1] - 32:7 therefore [1] - 6:6 third [1] - 15:22 THIS [1] - 35:23 thoughts [1] - 10:16 three [1] - 25:2 throughout [2] - 7:7, 30:6 Tim [2] - 3:2, 33:14 TIME [1] - 35:23 **TIMOTHY** [1] - 2:6 **TIPS** [1] - 5:13 to-date [1] - 33:4 today [3] - 5:11, 7:20, 35:12 **Today** [1] - 32:23 Today" [1] - 14:1 today's [1] - 35:14 toll [6] - 16:8, 16:10, 16:12, 16:20, 17:4, 29:6 ton [1] - 23:3 took [2] - 12:21, 26:10 top [4] - 12:20, 17:9, 17:12, 21:4 TORRES [1] - 2:13 touched [1] - 18:20 tower [1] - 12:15 towers [1] - 14:8 tracking [1] - 30:1 **trade** [1] - 11:8 traded [4] - 7:4, 10:24, 28:16, 32:5 traffic [3] - 22:3, 22:6,

Trustees [2] - 4:9,

trustees [1] - 34:22

turn [8] - 3:15, 4:13,

type [4] - 9:24, 15:20,

types [3] - 15:23, 18:6,

4:17, 6:15, 7:2, 7:14,

Trusts [1] - 5:12

29:9, 35:1

two [1] - 5:10

17:3, 32:16

typical [1] - 8:10

**U.K** [5] - 9:1, 10:5,

13:12, 18:23, 19:1

9:1, 9:5, 15:8, 15:11,

**U.S** [8] - 5:13, 8:21,

17:15, 25:11

United [1] - 30:9

25:8, 32:17

11:23

universe [3] - 25:1,

unlisted [2] - 11:2,

**up** [10] - 4:21, 6:7,

26:2, 27:9, 28:7,

updated [1] - 13:23

28:19, 29:1

upper [1] - 24:8

useful [1] - 9:11

usable [1] - 16:17

utilities [1] - 21:19

13:19, 22:6, 23:21,

ultimately [1] - 4:3

under [2] - 4:10, 32:18

25:17

35.5

valuation [1] - 12:5 value [2] - 19:10, 24:8 various [1] - 32:15 video [2] - 3:17, 3:20 volatility [6] - 10:6, 11:10, 12:7, 12:9, 28:15, 29:8 vote [1] - 3:18 votes [1] - 4:8

# W

walkthrough [1] - 6:15 wants [1] - 9:13 waste [4] - 8:12, 14:16, 32:19, 33:1 watched [1] - 21:24 Water [1] - 13:4 water [15] - 8:11, 12:20, 13:5, 13:7,

14:16, 14:24, 18:23, 18:24, 21:20, 27:17, 32:19, 32:20, 33:1 ways [2] - 18:4, 21:10 website [1] - 4:5 welcome [1] - 7:6 **WELLER** [1] - 2:14 WERE [1] - 35:21 Western [1] - 9:1 WHICH [1] - 35:21 widest [1] - 25:17 WILLIAM [1] - 2:5 willing [1] - 24:23 wind [4] - 14:11,

year [4] - 5:4, 12:8, 21:2, 27:8 years [13] - 5:5, 7:23, 8:1, 8:14, 10:6, 11:16, 12:22, 13:16, 14:22, 18:13, 18:15, 21:21, 22:23

wider [2] - 24:22, 25:9 14:13, 18:5, 21:16 wonder [1] - 19:16 world [2] - 9:8, 30:7 wrap [2] - 28:7, 28:19 Υ