

Webinar

ULI Toronto: Noise in the City

Date: March 23, 2022

00:02:12 --> 00:02:15:

00:00:36> 00:00:40:	Hello, good afternoon and welcome as people begin to trickle
00:00:41> 00:00:41:	in,
00:00:41> 00:00:44:	we're going to run the ULI Toronto membership video before
00:00:44> 00:00:46:	we get things going.
00:01:09> 00:01:12:	Having the ability to. Exchange stories,
00:01:12> 00:01:16:	exchange ideas and really sort of find mentors in the
00:01:16> 00:01:19:	industry via ULI was a huge plus for me.
00:01:19> 00:01:21:	So one of the things that I first started doing
00:01:21> 00:01:24:	with you Ali in terms of active engagement with their
00:01:24> 00:01:25:	urban plan program.
00:01:25> 00:01:26:	And for me that's they.
00:01:26> 00:01:29:	They basically go into schools and work with young people
00:01:29> 00:01:31:	in junior high and high school.
00:01:31> 00:01:33:	One of the great things about Uli is that it
00:01:33> 00:01:37:	provides a great platform for public sector and private sector
00:01:37> 00:01:40:	interests to meet with an opportunity to connect with a
00:01:40> 00:01:41:	variety of people from a variety of.
00:01:41> 00:01:44:	Different disciplines, so I work in real estate development,
00:01:44> 00:01:47:	but it's useful and important to get to know people
00:01:47> 00:01:49:	in other aspects of city building opportunity,
00:01:49> 00:01:53:	get recognition the opportunity to participate in my community and
00:01:53> 00:01:56:	give back in a way all of those things have
00:01:56> 00:02:00:	enhanced my career and I think enhance what I'm able
00:02:00> 00:02:03:	to offer the industry. And I'm really excited to be
00:02:03> 00:02:04:	part of Uli Toronto.
00:02:04> 00:02:10:	And really advancing my leadership skills and fostering my connections
00:02:10> 00:02:12:	and really just advancing.

My mission for city building was a young professional new

00:02:15> 00:02:17:	to the province and I found you,
00:02:17> 00:02:20:	Ali and other kind of similar organizations really helpful in
00:02:20> 00:02:21:	terms of,
00:02:21> 00:02:23:	you know, bridging connections and networking.
00:02:23> 00:02:28:	It's an opportunity to connect with people who have
	questions,
00:02:28> 00:02:31:	who are who have not quite figured out how to
00:02:31> 00:02:32:	do things,
00:02:32> 00:02:34:	and I liked how hands on you could be as
00:02:34> 00:02:34:	a member.
00:02:34> 00:02:36:	You could get involved immediately.
00:02:36> 00:02:38:	You could volunteer for me.
00:02:38> 00:02:41:	You Ali is one of the greatest organizations in the
00:02:41> 00:02:42:	world and.
00:02:42> 00:02:45:	Certainly in Toronto to connect to learn and to become
00:02:45> 00:02:49:	a part of an organization that really values its people
00:02:49> 00:02:50:	and its members.
00:03:04> 00:03:07:	Thank you our membership video is your invitation to get
00:03:08> 00:03:09:	more involved with you all.
00:03:09> 00:03:14:	I Toronto, the world's largest and most active ULI chapter.
00:03:14> 00:03:16:	A few notes to ULI members of those who are
00:03:17> 00:03:21:	not yet members of some amazing value opportunities that
	membership.
00:03:21> 00:03:23:	membership. Things that you may not be aware of.
00:03:21> 00:03:23: 00:03:23> 00:03:28:	·
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00:04:23> 00:04:28:	some. I'm 75 years of case studies around the world
00:04:28> 00:04:33:	that you can find very easily through a very sophisticated
00:04:33> 00:04:35:	search engine,
00:04:35> 00:04:37:	so there's a few things that that you might not
00:04:37> 00:04:37:	know about,
00:04:37> 00:04:40:	but we encourage you to become a member.
00:04:40> 00:04:41:	Or if you are a member,
00:04:41> 00:04:44:	to take advantage of these good afternoon.
00:04:44> 00:04:46:	My name is Richard Joy,
00:04:46> 00:04:48:	executive director of Yulia Toronto,
00:04:48> 00:04:52:	and welcome today's webinar. The noise in the city,
00:04:52> 00:04:54:	the art of urban urban acoustics.
00:04:54> 00:04:58:	Before we get started, I want to take a moment
00:04:58> 00:05:02:	to recognize people who were here before this land was
00:05:02> 00:05:05:	settled as a Toronto region based organization,
00:05:05> 00:05:08:	you Alli acknowledges and we all acknowledge the land we
00:05:08> 00:05:09:	are meeting on.
00:05:09> 00:05:12:	Virtually is the traditional territory of many nations,
00:05:12> 00:05:14:	including the Mississaugas of the credit,
00:05:14> 00:05:17:	the Anishinabek, the Chippewa, the holding,
00:05:17> 00:05:19:	the Shawnee and the Wendat peoples.
00:05:19> 00:05:22:	And now is home to many diverse First Nation,
00:05:22> 00:05:27:	Inuit and native people. We acknowledge that Toronto is
	covered
00:05:27> 00:05:30:	by Treaty 13 with the Mississaugas of the credit.
00:05:30> 00:05:31:	We are all treaty people.
00:05:31> 00:05:33:	Many of us have come here as settlers,
00:05:33> 00:05:37:	immigrants and newcomers in this generation are
00:05:27 > 00:05:44:	generations past.
00:05:37> 00:05:41:	You will. I Toronto stands in solidarity with indigenous communities
00:05:41> 00:05:44:	demanding action and accountability for the ongoing legacy
	of the
00:05:45> 00:05:46:	residential school system.
00:05:46> 00:05:49:	We'd also like to acknowledge and honor those who come
00:05:49> 00:05:50:	here involuntarily,
00:05:50> 00:05:54:	particularly descendants from those who brought here
	through enslavement to
00:05:54> 00:05:57:	better understand the meaning behind it's land
	acknowledgement.
00:05:57> 00:06:01:	We recommend some of the programs that we'll be putting
00:06:01> 00:06:05:	into the chat that you can see for free through
00:06:05> 00:06:05:	YouTube.

00:06:05> 00:06:09:	You are Toronto is working with sister organizations in the
00:06:09> 00:06:12:	Toronto region to support a local effort in response to
00:06:12> 00:06:15:	the escalating crisis of the war in the Ukraine next
00:06:15> 00:06:18:	week, April 1st. We have a free webinar we just
00:06:18> 00:06:21:	put that up and the link will be posted on
00:06:21> 00:06:25:	how our industry can support the growing relief effort,
00:06:25> 00:06:27:	including initiatives here in the Toronto region.
00:06:27> 00:06:31:	As the refugee and immigration waves arrive here in Canada.
00:06:31> 00:06:34:	In the interim, you can immediately support one of two
00:06:34> 00:06:35:	fundraising campaigns,
00:06:35> 00:06:39:	the Canadian Ukrainian Foundation and the Red Cross of Canada.
00:06:39> 00:06:43:	The links will be provided in the chat.
00:06:43> 00:06:48:	Lastly, I'd like to acknowledge today's event in all ULI.
00:06:48> 00:06:52:	Today's event in audio like program would not be possible
00:06:52> 00:06:55:	without the generous support of our annual sponsors.
00:06:55> 00:06:58:	We'd like to thank all the sponsors for their support
00:06:58> 00:06:59:	now more than ever.
00:06:59> 00:07:02:	You Ally Toronto relies on the support of the sponsors
00:07:02> 00:07:05:	to put on high quality programming and to drive our
00:07:05> 00:07:08:	mission to shape the future of the built environment for
00:07:08> 00:07:12:	transformative impact in communities worldwide to all of them,
00:07:12> 00:07:15:	we say thank you. It is now my pleasure to
00:07:15> 00:07:19:	turn the remainder of the program over to another.
00:07:19> 00:07:25:	Richard Richard Witt principal at BDP Quadrangle and Pasteurella Toronto
00:07:25> 00:07:26:	board member.
00:07:26> 00:07:29:	His information and the information of our other speakers will
00:07:29> 00:07:32:	be in the chat function to speed things up.
00:07:32> 00:07:34:	Richard over to you and thank you for doing this.
00:07:35> 00:07:38:	Thank you very much. Richard J.
00:07:38> 00:07:40:	Today we're going to be discussing many things,
00:07:40> 00:07:43:	but we're going to start with an introduction from Nicholas
00:07:43> 00:07:44:	Silvestre Williams.
00:07:44> 00:07:48:	Nicholas is a principal at Acoustics Engineering Limited,
00:07:48> 00:07:50:	so we're going to listen to everything that has to
00:07:50> 00:07:52:	say and all the insights and that's going to be
00:07:52> 00:07:55:	followed by a panel discussion with all of our panelists.
00:07:59> 00:08:00:	Thank you very much, Richard,
00:08:00> 00:08:03:	I appreciate that. So you know,
00:08:03> 00:08:06:	I think you as well for the opportunity to speak
00:08:06> 00:08:07:	on urban acoustics.

00:08:07> 00:08:08:	For those who don't know me,
00:08:08> 00:08:10:	air Acoustics is an engineering consulting firm,
00:08:10> 00:08:12:	and we specialize solely in acoustics,
00:08:12> 00:08:15:	noise, and vibration. It's all we do and a lot
00:08:15> 00:08:17:	of familiarity in this.
00:08:17> 00:08:19:	We live in the city we live in the Toronto.
00:08:19> 00:08:21:	We live in the Greater Toronto area,
00:08:21> 00:08:24:	the GTA, Ontario. However, you wanna look at it.
00:08:24> 00:08:27:	It is growing. It is big and noise is an
00:08:27> 00:08:28:	issue.
00:08:28> 00:08:30:	If it can get the next slide.
00:08:30> 00:08:33:	I wanna just start with a couple of the developments
00:08:33> 00:08:35:	that we have had in the city.
00:08:35> 00:08:38:	You know, you see news about what's happening and people
00:08:38> 00:08:41:	think that this growing and this expansion and this need
00:08:41> 00:08:44:	for housing is new but young and Shepherd sent as
00:08:44> 00:08:46:	an example of a project is is quite a number
00:08:47> 00:08:47:	of years now.
00:08:47> 00:08:51:	It's been established we can get the next slide.
00:08:51> 00:08:53:	I'm gonna go through these pretty quickly.
00:08:53> 00:08:56:	We have in mostly development VMC,
00:08:56> 00:08:59:	again an amazing project that has.
00:08:59> 00:09:04:	Consolidated office residential. So much mixed use rental and of
00:09:04> 00:09:06:	course we had the transit,
00:09:06> 00:09:09:	the Metrolink, the subway, that all extends there,
00:09:09> 00:09:12:	and you have 10s of thousands if not hundreds of
00:09:12> 00:09:16:	thousands of people in this new area all living together,
00:09:16> 00:09:20:	all intermingling and noise is going to become an issue.
00:09:20> 00:09:22:	We can get the next slide.
00:09:22> 00:09:25:	Looking to the future same thing in Brampton.
00:09:25> 00:09:29:	You have the Brampton shoppers world redevelopment and again completely
00:09:29> 00:09:33:	redefining the area and bringing 10s of thousands of people
00:09:33> 00:09:35:	into an area that you have to live together.
00:09:35> 00:09:38:	We have to be harmonious and we can't be quiet
00:09:38> 00:09:41:	because things need to be planned.
00:09:41> 00:09:43:	Things need to be constructed and then you need to
00:09:43> 00:09:43:	live there together.
00:09:43> 00:09:46:	I'm going to touch upon each of these next slide.
00:09:48> 00:09:49:	I'm going to just take a minute,
00:09:49> 00:09:52:	let you read this joke because it's pretty relevant to
	· •

00:09:52 --> 00:09:53: me. 00:09:59 --> 00:10:01: And in radio they say never have dead air, 00:10:01 --> 00:10:04: but normally I can tell by my audience in a 00:10:04 --> 00:10:07: live audience if people laugh at this but. 00:10:07 --> 00:10:08: I hope you had a chuckle, 00:10:08 --> 00:10:11: and despite the humor of it, 00:10:11 --> 00:10:15: it is really telling because noise sound, 00:10:15 --> 00:10:17: which is the physical quantity, 00:10:17 --> 00:10:21: is very personal. People react very differently to things and 00:10:21 --> 00:10:23: what one person doesn't like. 00:10:23 --> 00:10:26: One person will have an issue with. 00:10:26 --> 00:10:28: It is dynamic and we can't. 00:10:28 --> 00:10:31: We often cannot just sort of take a broad brush 00:10:31 --> 00:10:33: and say this is good. 00:10:33 --> 00:10:36: This is bad because that's how varying it is in 00:10:36 --> 00:10:37: our responses to noise. 00:10:37 --> 00:10:38: If we go to the next slide. 00:10:41 --> 00:10:43: This is an example. I think most of us have 00:10:43 --> 00:10:44: this experience, 00:10:44 --> 00:10:48: a ticking clock dripping tap in a hotel room, 00:10:48 --> 00:10:51: or maybe in your own bedroom that keeps you awake. 00:10:51 --> 00:10:53: It's not very loud, but you hear it. 00:10:53 --> 00:10:56: You know that that cricket that's buzzing any type of 00:10:56 --> 00:10:58: noise like that could disturb you. 00:10:58 --> 00:11:01: Whereas we have people. I myself live very close to 00:11:01 --> 00:11:02: the roads. 00:11:02 --> 00:11:03: I have a fire station next to me. 00:11:03 --> 00:11:07: It's not a problem whatsoever because that become accustomed to 00:11:07 --> 00:11:07: it. 00:11:07 --> 00:11:09: So you can see it's not just about how loud 00:11:09 --> 00:11:11: things are and we're going to touch upon some of 00:11:11 --> 00:11:12: that. 00:11:12 --> 00:11:14: It is very much what do you expect. 00:11:14 --> 00:11:15: What are you comfortable with? 00:11:15 --> 00:11:18: What are you used to versus what are the abnormal? 00:11:18 --> 00:11:20: And I'm not suggesting in any way we can change 00:11:21 --> 00:11:23: all the rules because that would never be managed. 00:11:23 --> 00:11:27: But do understand that the human response to noise is 00:11:27 --> 00:11:29: incredibly complicated, 00:11:29 --> 00:11:30: so I love this field.

Next slide, please. This is a snapshot of the downtown

00:11:30 --> 00:11:35:

00:11:38 --> 00:11:41: Many of those buildings in new and I only took 00:11:41 --> 00:11:42: this. 00:11:42 --> 00:11:43: I think it was the middle of the day so 00:11:43 --> 00:11:45: the traffic on the gardener looks fantastic, 00:11:45 --> 00:11:47: but you can see the highway. 00:11:47 --> 00:11:49: You can see the rail lines. 00:11:49 --> 00:11:51: You can see all the roads that we have in 00:11:51 --> 00:11:53: the city and at the end of the day when 00:11:53 --> 00:11:56: you live in a city you are going to get 00:11:56 --> 00:11:59: noise. It is inevitable. I'm going to touch upon some 00:11:59 --> 00:12:02: of the issues that we deal with and where they've 00:12:02 --> 00:12:03: come from, 00:12:03 --> 00:12:06: but. For for you being here, 00:12:06 --> 00:12:08: you need to understand that noises. 00:12:08 --> 00:12:12: Normal sound is normal and in some ways we have 00:12:12 --> 00:12:14: to get very used to it. 00:12:14 --> 00:12:15: We can have the next slide please. 00:12:18 --> 00:12:20: So in real estate and land use planning, 00:12:20 --> 00:12:22: which is the audience here? 00:12:22 --> 00:12:23: What do we want to talk about? 00:12:23 --> 00:12:26: We have noise as an engineering consultant. 00:12:26 --> 00:12:29: We have noise as it comes to planning how you 00:12:29 --> 00:12:30: locate a site, 00:12:30 --> 00:12:32: we deal with noise as you construct the building or 00:12:32 --> 00:12:35: buildings and then finally the people who live there. 00:12:35 --> 00:12:38: The designers and architects have to make sure that it's 00:12:38 --> 00:12:41: comfortable for those living in the space and it's very 00:12:41 --> 00:12:41: easy to say. 00:12:41 --> 00:12:44: Well planning, put it in the quietest place possible that's 00:12:44 --> 00:12:45: never going to happen. 00:12:45 --> 00:12:47: We sort of ran out of the best spots in 00:12:47 --> 00:12:48: most of the cities. 00:12:48 --> 00:12:51: Writing number of years ago in construction, 00:12:51 --> 00:12:53: you can't build things quietly. 00:12:53 --> 00:12:54: That's not going to happen, 00:12:54 --> 00:12:57: and it's how do you manage it? 00:12:57 --> 00:12:59: And then in design, everyone wants a beautiful, 00:12:59 --> 00:13:01: quiet space, but one has to understand. 00:13:01 --> 00:13:04: With density it means someone's living above you below you 00:13:04 --> 00:13:07: underneath side of you and you certainly don't want to 00:13:07 --> 00:13:09: be the problem and you hope that someone else isn't

and just what it looks like.

00:11:35 --> 00:11:38:

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the problem. So let's touch upon how all of these
00:13:09 --> 00:13:12:
00:13:12 --> 00:13:13:
                          things affect us.
00:13:13 --> 00:13:17:
                          Next slide, please. This is just an excerpt of the
00:13:17 --> 00:13:21:
                          City of Toronto planning terms of reference for a noise
00:13:21 --> 00:13:22:
                          study,
                          and if we just sort of read,
00:13:22 --> 00:13:24:
00:13:24 --> 00:13:25:
                          you know, we have to.
00:13:25 --> 00:13:28:
                          I have to identify all the noise from airports,
00:13:28 --> 00:13:33:
                          transportation, rail industries, everything that makes noise.
00:13:33 --> 00:13:35:
                          That's a good thing. We certainly want to make sure
00:13:35 --> 00:13:37:
                          we look at the noise if we think it's an
00:13:37 --> 00:13:37:
                          issue,
00:13:37 --> 00:13:40:
                          but I want you to understand how all encompassing a
00:13:40 --> 00:13:43:
                          noise study is in planning and the planners will contact
00:13:43 --> 00:13:45:
                          when the developers will contact me and say we have
00:13:45 --> 00:13:46:
                          to do all of this.
00:13:46 --> 00:13:48:
                          We have to get all this information.
00:13:48 --> 00:13:51:
                          And there are a lot of legacy rules around that
00:13:51 --> 00:13:53:
                          have existed since the early 70s,
00:13:53 --> 00:13:57:
                          and even before. It's applicable,
00:13:57 --> 00:13:59:
                          but I want you to know that.
00:13:59 --> 00:14:01:
                          This is what's looked at next slide,
00:14:01 --> 00:14:06:
                          please. Again, an idea if you can,
00:14:06 --> 00:14:07:
                          just from City of Ottawa.
00:14:07 --> 00:14:11:
                          But if you were doing a single building again,
                          roads, rail transit aircraft if applicable,
00:14:11 --> 00:14:15:
00:14:15 --> 00:14:15:
                          I need to look at that.
00:14:15 --> 00:14:17:
                          In those I need to look at that outdoors.
00:14:17 --> 00:14:20:
                          You can see how encompassing because next slide.
00:14:23 --> 00:14:28:
                          This is an example. Of future planning along Eglinton East.
00:14:28 --> 00:14:30:
                          You can see there are.
00:14:30 --> 00:14:33:
                          10 new developments just in this one photo alone that
00:14:33 --> 00:14:34:
                          are coming,
00:14:34 --> 00:14:37:
                          and each of these developers need to do noise studies
00:14:37 --> 00:14:38:
                          need to retain staff.
00:14:38 --> 00:14:40:
                          Get all of this information in.
00:14:40 --> 00:14:43:
                          They have to contact all of these institutions to get
00:14:43 --> 00:14:45:
                          the information so you can see the amount of work
00:14:45 --> 00:14:47:
                          that goes into this and I will put forward that
00:14:47 --> 00:14:50:
                          there are absolutely ways that this can be improved.
00:14:50 --> 00:14:53:
                          This can be made more efficient because we know we
00:14:53 --> 00:14:54:
                          live in a city.
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00:14:54> 00:14:58:	We know that people want to live on Eglington where
00:14:58> 00:15:00:	their rapid transit is coming.
00:15:00> 00:15:02:	But now as a noise consultant,
00:15:02> 00:15:03:	I'm sometimes asked to see,
00:15:03> 00:15:05:	well, it might be too noisy,
00:15:05> 00:15:07:	so that's not a good place for development.
00:15:07> 00:15:10:	There are these inconsistencies that happen during planning
	and,
00:15:10> 00:15:12:	and we need to find ways to address that next
00:15:12> 00:15:13:	slide,
00:15:13> 00:15:17:	please. I do want to touch on the gentle credit
00:15:17> 00:15:19:	to the provincial government.
00:15:19> 00:15:22:	An attempt was made to update some of the planning
00:15:22> 00:15:23:	documents.
00:15:23> 00:15:24:	It did not go very well.
00:15:24> 00:15:27:	I'm certainly happy to chat with anyone about that,
00:15:27> 00:15:30:	but some initiatives have been done and I think we
00:15:30> 00:15:32:	need to look at it because a lot of the
00:15:32> 00:15:36:	initiatives that we still have today are very industry focused
00:15:36> 00:15:39:	and you can't go a day without seeing the need
00:15:39> 00:15:43:	for new housing development in the province and we have
00:15:43> 00:15:46:	to somehow find a way to make compatibility work.
00:15:46> 00:15:50:	I'm simply saying industry and commercials incompatible with residential.
00:15:50> 00:15:52:	I don't believe it's correct that they they can be
00:15:53> 00:15:53:	made compatible.
00:15:53> 00:15:56:	They're just other things that need to change in that
00:15:56> 00:15:56:	system.
00:15:56> 00:16:01:	Next slide, please. We're gonna move to construction noise so
00:16:01> 00:16:03:	things have been planned.
00:16:03> 00:16:06:	Now you're building and now everyone complains.
00:16:06> 00:16:07:	You get the number, you get.
00:16:07> 00:16:10:	The people probably, rightfully oh.
00:16:10> 00:16:12:	I would say rightfully complaining about the trucks happening in
00:16:12> 00:16:13:	concrete.
00:16:13> 00:16:18:	Pouring the backup beepers, but you can't build without
	noise.
00:16:18> 00:16:20:	There is a certain amount or certain degree of acceptance.
00:16:20> 00:16:25:	We have to have as a society in that.
00:16:25> 00:16:26:	My sister lives at young and egg.
00:16:26> 00:16:28:	I speak with her often and she's reached out to

00:16:31 --> 00:16:31: issues. 00:16:31 --> 00:16:34: My first condo was that young and Finch and again 00:16:34 --> 00:16:35: we had to. 00:16:35 --> 00:16:37: We were in phase two and phase three was being 00:16:37 --> 00:16:38: 00:16:38 --> 00:16:42: I didn't mind it, but my wife certainly didn't. 00:16:42 --> 00:16:45: These things have to be accommodated and I think we 00:16:45 --> 00:16:47: we do need a lot of education here in the 00:16:47 --> 00:16:50: city and understanding that listen if we want progress and 00:16:50 --> 00:16:52: you live in a city. 00:16:52 --> 00:16:55: This is inevitable. I think it's unreasonable to say I 00:16:55 --> 00:16:58: want silence and birds sounds on a Sunday morning, 00:16:58 --> 00:17:01: absolutely, but on a Friday afternoon I think there's a 00:17:01 --> 00:17:04: certain amount that has to change in public perception. 00:17:04 --> 00:17:06: Having said that, if I can get the next slide. 00:17:10 --> 00:17:12: This is all sorry this is next slide, 00:17:12 --> 00:17:14: but this is an example of again of a headline 00:17:14 --> 00:17:16: and actually even though they show a condo development, 00:17:16 --> 00:17:20: it's particular headline was discussing some of the municipal projects 00:17:20 --> 00:17:21: that we're going. 00:17:21 --> 00:17:22: If I can get the next slide, 00:17:22 --> 00:17:26: please. Thank you as an example of of ways 00:17:26 --> 00:17:28: that we can accommodate. 00:17:28 --> 00:17:31: We've we're seeing it in a lot of the provincial 00:17:31 --> 00:17:31: projects, 00:17:31 --> 00:17:35: construction noise. They're imposing limits on noise. 00:17:35 --> 00:17:38: They're going above and beyond many of the requirements. 00:17:38 --> 00:17:42: We're even seeing private developers now instituting noise monitoring, 00:17:42 --> 00:17:44: so we know even if it gets too loud, 00:17:44 --> 00:17:45: you can make noise. You need to make, but if it gets too loud, 00:17:45 --> 00:17:47: 00:17:47 --> 00:17:49: things happen. Work is stopped, 00:17:49 --> 00:17:51: triggers occur, there's complete forms. 00:17:51 --> 00:17:54: There's lots of issues, and I would certainly encourage any 00:17:54 --> 00:17:55: developers here. 00:17:55 --> 00:17:58: Look into these systems. There are fantastic ways of working 00:17:58 --> 00:18:00: with the community on it. 00:18:00 --> 00:18:02: They are steps that can be done. 00:18:02 --> 00:18:05: So while I say construction noise must happen and must 00:18:05 --> 00:18:05: be allowed.

me many times on what can be done for certain

00:16:28 --> 00:16:31:

00:18:05> 00:18:09:	they're always there with the community and their
00.40.00 > 00.40.40	technologies that
00:18:09> 00:18:10:	will never eliminate.
00:18:10> 00:18:13:	But they are technologies that can reduce construction noise,
00:18:13> 00:18:15:	reduce the disturbance of people.
00:18:15> 00:18:18:	It does require engagement and education.
00:18:18> 00:18:22:	Next slide, please. Now I'm going to move to living
00:18:22> 00:18:25:	in the building and again this is.
00:18:25> 00:18:29:	This is the topic I can easily spend an entire
00:18:29> 00:18:30:	hour talking about.
00:18:30> 00:18:32:	You move into a a high rise.
00:18:32> 00:18:35:	You move into a place where people are living above
00:18:35> 00:18:35:	you.
00:18:35> 00:18:37:	Below you left and right of you.
00:18:37> 00:18:39:	No one wants to go in.
00:18:39> 00:18:41:	I hope and and here they're neighbors doing things.
00:18:41> 00:18:44:	That's certainly not the intent,
00:18:44> 00:18:46:	but I think there needs to be a lot of
00:18:46> 00:18:49:	education here on what people can do and what living
00:18:50> 00:18:50:	is like.
00:18:50> 00:18:53:	We're seeing people coming in and we're seeing a lot
00:18:53> 00:18:54:	of complaints.
00:18:54> 00:18:56:	And I have had just some of them.
00:18:56> 00:18:59:	Lots of hotels, hearing your neighbor,
00:18:59> 00:19:01:	lots of condos, people hearing.
00:19:01> 00:19:04:	Amorous events let's leave it at that.
00:19:04> 00:19:09:	Another notable 1A fellow fantastic musician practiced about
	five hours
00:19:09> 00:19:10:	a day.
00:19:10> 00:19:13:	Needless to say, his neighbors below him were not
	particularly
00:19:13> 00:19:14:	impressed.
00:19:14> 00:19:16:	You do need to realize where you're living in,
00:19:16> 00:19:19:	and I think going even further than that,
00:19:19> 00:19:22:	some of the sales need to make people understand this
00:19:22> 00:19:25:	is what high density living is all about.
00:19:25> 00:19:28:	Having said that, we have seen changes in designs over
00:19:29> 00:19:29:	the years.
00:19:29> 00:19:34:	The Ontario Building Code sound and Transmission section
	was changed
00:19:34> 00:19:37:	a couple of years ago and I'm certain that it
00:19:37> 00:19:41:	will incredibly elevate the standards that we get today.
00:19:41> 00:19:43:	There are more changes that are going to be coming

00:19:43 --> 00:19:46: over the next few years that the engineers and scientists 00:19:46 --> 00:19:47: are working on, 00:19:47 --> 00:19:50: but we are seeing things move up regardless of that 00:19:50 --> 00:19:50: fact. 00:19:50 --> 00:19:53: We do need to understand that there are things that 00:19:53 --> 00:19:56: need to be done by the people while the construction 00:19:56 --> 00:19:58: also keeps up with it. 00:19:58 --> 00:20:04: Next slide, please. This is a bit of a issue 00:20:04 --> 00:20:06: because. 00:20:06 --> 00:20:08: as mentioned we don't have. 00:20:08 --> 00:20:09: We don't have land left. 00:20:09 --> 00:20:12: People want privacy in their internal spaces. 00:20:12 --> 00:20:14: Well, we look at again the top photo. 00:20:14 --> 00:20:21: Your typical balcony door window looking out into the outside. And then it it's real I. 00:20:21 --> 00:20:23: 00:20:23 --> 00:20:26: I've worked on projects that are overlooking the garden. 00:20:26 --> 00:20:27: I've actually had people tell me no. 00:20:27 --> 00:20:29: I like living here, so I think some of the 00:20:29 --> 00:20:31: rules going back even to the early planning stages, 00:20:31 --> 00:20:35: are that you can absolutely have people who like that 00:20:35 --> 00:20:35: noise. 00:20:35 --> 00:20:38: Having said that, there are absolutely people who do not 00:20:38 --> 00:20:41: want to hear things and the developers can look at it and say no, 00:20:41 --> 00:20:41: 00:20:41 --> 00:20:45: well, we do have options for better facades, 00:20:45 --> 00:20:49: better glazing, better windows. The second point, 00:20:49 --> 00:20:52: the STC. Again, I apologize for the technical terms, 00:20:52 --> 00:20:55: but this was the big code change that happened and 00:20:55 --> 00:20:56: all designers and architects, 00:20:56 --> 00:21:00: engineers, builders everyone is getting much better. 00:21:00 --> 00:21:03: I have actually had quite a number of developers and 00:21:03 --> 00:21:05: pretty happy to say that you know no one wants 00:21:05 --> 00:21:06: to work for the code minimum. 00:21:06 --> 00:21:09: They absolutely need to meet code minimum, 00:21:09 --> 00:21:11: but a number of developers have come in and said 00:21:11 --> 00:21:12: well, 00:21:12 --> 00:21:14: no, we want to make sure that we can sell 00:21:14 --> 00:21:15: better units. 00:21:15 --> 00:21:18: more expensive units sometimes. But then we're going to build it. 00:21:18 --> 00:21:18:

00:21:18 --> 00:21:22: Even higher and higher acoustic privacy and you don't hear 00:21:22 --> 00:21:23: the elevators. 00:21:23 --> 00:21:25: You're not going to hear the sounds, 00:21:25 --> 00:21:29: and this is certainly possible without significantly increasing costs. 00:21:29 --> 00:21:32: But there is a cost aspect to it that you 00:21:32 --> 00:21:33: can't ignore. 00:21:33 --> 00:21:40: Next slide, please. I'm finishing on this one because owners 00:21:40 --> 00:21:41: are important. 00:21:41 --> 00:21:44: I I've lived in condos I II many many many 00:21:44 --> 00:21:46: of my friends live in condos. 00:21:46 --> 00:21:50: We've we've gone through the process of buying condos, 00:21:50 --> 00:21:54: rental apartments and again I get about a call a 00:21:54 --> 00:21:54: week. 00:21:54 --> 00:21:57: I would say one call a week 50 calls a 00:21:57 --> 00:22:01: year and people who have rented or bought or moved 00:22:01 --> 00:22:02: 00:22:02 --> 00:22:04: And it usually comes down to Nicholas. 00:22:04 --> 00:22:07: This particular noise is a problem and. 00:22:09 --> 00:22:11: You don't wanna hire an acoustic engineer. 00:22:11 --> 00:22:13: Yes, I know I'm saying that you don't want to 00:22:13 --> 00:22:15: hire an acoustic engineer to go through a ridiculous testing 00:22:15 --> 00:22:17: when a lot of things can be dealt with with 00:22:17 --> 00:22:21: conversation. Invariably designs meet code, 00:22:21 --> 00:22:24: they meet code, and people are doing things that are 00:22:24 --> 00:22:25: a bit ridiculous. 00:22:25 --> 00:22:29: So really you do need to have conversations when buying 00:22:29 --> 00:22:32: what understanding living in a community means. 00:22:32 --> 00:22:33: And I don't just mean within your place, 00:22:33 --> 00:22:36: there are again, we've seen it before where dogs are 00:22:36 --> 00:22:38: outside and we are taking a lot of people. 00:22:38 --> 00:22:41: Being out walking the dogs and someone else is complaining 00:22:41 --> 00:22:42: about a barking dog. 00:22:42 --> 00:22:44: I've seen it with garbage trucks. 00:22:44 --> 00:22:46: I can't believe there's a garbage coming to my building 00:22:46 --> 00:22:48: and it's beeping and making noise. 00:22:48 --> 00:22:51: And sorry, but that's how you remove garbage from a 00:22:51 --> 00:22:52: building. 00:22:52 --> 00:22:54: These are the types of things that we do need 00:22:54 --> 00:22:57: to sort of get people changing and understanding. 00:22:57 --> 00:22:58: Thank you next slide please. 00:23:00 --> 00:23:04: So in closing. Within 15 minutes I wanted to touch

00:23:04> 00:23:07:	upon the issues and I hope that you have a
00:23:07> 00:23:10:	lot of questions for us because you can see how
00:23:10> 00:23:12:	the noise, the acoustics, noise,
00:23:12> 00:23:15:	and vibration have their impact in the early planning stages
00:23:15> 00:23:18:	have their impact during the construction and things that can
00:23:18> 00:23:21:	be done and then have the impact on living together.
00:23:21> 00:23:24:	It is a very complex topic that.
00:23:24> 00:23:28:	People get incredibly emotional about I.
00:23:28> 00:23:31:	I am always here to help on the science,
00:23:31> 00:23:34:	but I think dialogue is first and foremost the best
00:23:34> 00:23:38:	solution to many of these engineering problems.
00:23:38> 00:23:38:	Thank you.
00:23:42> 00:23:47:	Great thank you, Nicholas. Some excellent insights and I think
00:23:47> 00:23:50:	many of us can associate with.
00:23:50> 00:23:52:	Sorry many of us can associate with the leaf blower
00:23:52> 00:23:53:	thing.
00:23:53> 00:23:57:	Everyone hates a leaf blower blowing.
00:23:57> 00:23:59:	I would like to introduce the panel.
00:23:59> 00:24:01:	I'm just going to read out briefly the the BIOS
00:24:01> 00:24:05:	for everyone are in the chat function with us today.
00:24:05> 00:24:08:	We have Jennifer arises. Who's vice president of development at
	E: 10 "15 (A) 0 1
00:24:08> 00:24:10:	First Capital Reef Alton Grant,
00:24:08> 00:24:10: 00:24:10> 00:24:14:	who's executive director of municipal Licensing and standards of the
	who's executive director of municipal Licensing and
00:24:10> 00:24:14:	who's executive director of municipal Licensing and standards of the
00:24:10> 00:24:14: 00:24:14> 00:24:15:	who's executive director of municipal Licensing and standards of the City of Toronto.
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president,
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me.
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21: 00:24:21> 00:24:28:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics engineering Acoustics Engineering limited.
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21: 00:24:21> 00:24:28: 00:24:28> 00:24:32:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics engineering Acoustics Engineering limited. Just heard from. Very sort of interesting things that that
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21: 00:24:21> 00:24:28: 00:24:28> 00:24:32: 00:24:32> 00:24:33:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics engineering Acoustics Engineering limited. Just heard from. Very sort of interesting things that that you raised there.
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21: 00:24:21> 00:24:28: 00:24:28> 00:24:32: 00:24:32> 00:24:33: 00:24:33> 00:24:36:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics engineering Acoustics Engineering limited. Just heard from. Very sort of interesting things that that you raised there. Nick. Lots of discussion. I took some notes here.
00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21: 00:24:21> 00:24:28: 00:24:28> 00:24:32: 00:24:32> 00:24:36: 00:24:36> 00:24:39:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics engineering Acoustics Engineering limited. Just heard from. Very sort of interesting things that that you raised there. Nick. Lots of discussion. I took some notes here. Lots of discussion about noise being normal.
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00:24:10> 00:24:14: 00:24:14> 00:24:15: 00:24:15> 00:24:17: 00:24:17> 00:24:21: 00:24:21> 00:24:28: 00:24:28> 00:24:32: 00:24:32> 00:24:33: 00:24:33> 00:24:36: 00:24:36> 00:24:39: 00:24:39> 00:24:41: 00:24:41> 00:24:44: 00:24:44> 00:24:49:	who's executive director of municipal Licensing and standards of the City of Toronto. Do you wanna Curvin vice president, external approvals and implementation crosslinks allows me. Nicholas Sylvester Williams principal at acoustics engineering Acoustics Engineering limited. Just heard from. Very sort of interesting things that that you raised there. Nick. Lots of discussion. I took some notes here. Lots of discussion about noise being normal. Sound is normal. We have to get used to it. Things about planning and consistencies, compatibility, can't you know? We can't build without noise and I,

00:24:57> 00:24:58:	because that's the.
00:24:58> 00:25:01:	The number one source of of complaints from residents and
00:25:01> 00:25:04:	it's it's quite difficult and it's very expensive to go
00:25:04> 00:25:06:	back in and fix it afterwards.
00:25:06> 00:25:08:	So getting the design done,
00:25:08> 00:25:12:	done right up front tends to be better.
00:25:12> 00:25:14:	An ounce of prevention is worth a pound of cure
00:25:15> 00:25:15:	as they say,
00:25:15> 00:25:18:	but I think that sort of leads us straight to
00:25:18> 00:25:21:	Alton and what what are the biggest complaints that you
00:25:21> 00:25:21:	hear?
00:25:21> 00:25:25:	What? What should people's expectations be around noise
	that they
00:25:25> 00:25:25:	encounter?
00:25:28> 00:25:30:	Yeah, great question. Richard and Nicholas.
00:25:30> 00:25:31:	Thank you for that presentation you have.
00:25:31> 00:25:33:	I have contact an issue.
00:25:33> 00:25:35:	This is and I think that's really important for the
00:25:35> 00:25:36:	audience.
00:25:36> 00:25:39:	Noise is in our top five complaints in the city,
00:25:39> 00:25:45:	the biggest complaints being around construction and being around amplified
00:25:45> 00:25:48:	count over the last since 2018 was complaints are over
00:25:48> 00:25:52:	17,000 in the city which is an increase of 164%
00:25:52> 00:25:54:	in the in the last you know,
00:25:54> 00:25:56:	340 years, so it's significant.
00:25:56> 00:25:59:	It impacts people. People need to be aware of their
00:25:59> 00:25:59:	community.
00:25:59> 00:26:02:	They need to turn their minds to to managing as
00:26:02> 00:26:03:	as as Nicholas says,
00:26:03> 00:26:07:	managing the noise, mitigating it where you can,
00:26:07> 00:26:10:	understanding your part of a community and how can you
00:26:10> 00:26:13:	work together to to minimize the noise we we all
00:26:13> 00:26:13:	agree.
00:26:13> 00:26:18:	Infrastructure development and housing development is really important right now,
00:26:18> 00:26:20:	but we need to do it in a way that's
00:26:20> 00:26:21:	mindful of the Community.
00:26:22> 00:26:26:	Thank you know it raises a good point and Jennifer
00:26:26> 00:26:30:	is probably positioned quite well to to respond to,
00:26:30> 00:26:32:	you know what's being done because I remember the,
00:26:32> 00:26:34:	you know the good old days so you know,
00:26:34> 00:26:35:	not that I'm not old,
	,

00:26:35 --> 00:26:36: of course, but you know, 00:26:36 --> 00:26:38: trying to 20 years ago when the city was filled 00:26:38 --> 00:26:41: with surface parking and you could just show up and 00:26:41 --> 00:26:43: put up a nice tower and that wasn't going to 00:26:43 --> 00:26:44: be too close to anything. 00:26:44 --> 00:26:46: Now all the sites are collected. All the sites are difficult there. 00:26:46 --> 00:26:47: 00:26:47 --> 00:26:50: You know around the highway in the face of First 00:26:50 --> 00:26:50: Capital. 00:26:50 --> 00:26:52: Quite a lot of them are very close to. 00:26:52 --> 00:26:54: Rail as well, which is is quite noisy. 00:26:54 --> 00:26:57: So what are some of the things that you're doing 00:26:57 --> 00:27:00: to improve noise pollution for building residents? 00:27:01 --> 00:27:04: Yeah, thanks Richard and hi everyone. 00:27:04 --> 00:27:07: So you know, given our structure as First Capital we 00:27:07 --> 00:27:08: are reached. 00:27:08 --> 00:27:10: So the way we're set up is that we tend 00:27:10 --> 00:27:13: to favor a purpose built rental projects and we also 00:27:13 --> 00:27:15: prefer to hold these assets long term and that the 00:27:15 --> 00:27:19: reason I'm saying that is because we make design decisions 00:27:19 --> 00:27:23: at the outset of a project to ensure that long 00:27:23 --> 00:27:25: term viability of the building. 00:27:25 --> 00:27:27: So as Nicholas mentioned, you know that might mean higher 00:27:28 --> 00:27:28: cost up front. 00:27:28 --> 00:27:31: So for instance in past experience. 00:27:31 --> 00:27:35: That we have been constructing adjacent to a rail corridor. 00:27:35 --> 00:27:38: We know that the building envelope presents a huge opportunity 00:27:38 --> 00:27:40: for noise attenuation, 00:27:40 --> 00:27:42: so this includes you know higher STC ratings on the 00:27:42 --> 00:27:42: glass. 00:27:42 --> 00:27:45: And how do you doors that are fronting along a 00:27:45 --> 00:27:47: noise source like a real corridor, 00:27:47 --> 00:27:51: fewer glazed openings altogether and replacing that with, 00:27:51 --> 00:27:55: you know more solid masonry material to dampen the sound. 00:27:55 --> 00:27:58: To go even further than you know, 00:27:58 --> 00:28:01: potentially code which of course is the bare minimum. 00:28:01 --> 00:28:03: We'd like to take a close look at, 00:28:03 --> 00:28:06: you know, floor to floor conflicts on our floor plans 00:28:06 --> 00:28:08: wherever possible, 00:28:08 --> 00:28:09: so that we can, you know, 00:28:09 --> 00:28:13: make sure that we're locating sources of noise away from,

00:28:13 --> 00:28:15: you know more sensitive areas. 00:28:15 --> 00:28:18: So, for instance, locating a gym in an amenity area 00:28:18 --> 00:28:20: next to a bedroom is probably not the best way 00:28:20 --> 00:28:22: to to lay out your building, 00:28:22 --> 00:28:24: so you know to that extent we try to we 00:28:24 --> 00:28:26: try to mitigate those conflicts. 00:28:26 --> 00:28:29: And we also look to where we have the space 00:28:30 --> 00:28:30: on a site. 00:28:30 --> 00:28:34: We try to locate. You know those sensitive uses away 00:28:34 --> 00:28:36: from from a source. 00:28:36 --> 00:28:39: So at our redevelopment of the the former Christie factory 00:28:40 --> 00:28:40: in the Tobico. 00:28:40 --> 00:28:43: we are constructing a new GO station and there is 00:28:43 --> 00:28:45: an existing rail corridor there. 00:28:45 --> 00:28:48: So we've actually positioned the site so that the office 00:28:48 --> 00:28:53: buildings which are you know considered less sensitive are located 00:28:53 --> 00:28:55: directly adjacent to the GO station. 00:28:55 --> 00:28:57: And then we would locate, vou know. The residential kind of in behind there as 00:28:57 --> 00:28:59: 00:28:59 --> 00:29:00: a as a buffer. 00:29:02 --> 00:29:05: Regardless, you know there's one of the things about sound 00:29:05 --> 00:29:05: 00:29:05 --> 00:29:08: It's coming up in in lots of different directions. 00:29:08 --> 00:29:09: You know it's it's outside. 00:29:09 --> 00:29:13: It's the stipulations between. It's the noise during construction. 00:29:13 --> 00:29:16: Somebody else who we have with us is potentially making 00:29:16 --> 00:29:17: quite a lot of noise. 00:29:17 --> 00:29:20: There is Joanna and I'm wondering if you could tell 00:29:20 --> 00:29:23: us a bit more about the the sources and the 00:29:23 --> 00:29:24: impacts of transit noise. 00:29:24 --> 00:29:27: You know how does the the noise of the things 00:29:27 --> 00:29:29: that you're during construction and also when it when it's 00:29:29 --> 00:29:30: completed? 00:29:30 --> 00:29:32: How does that affect to Jason development? 00:29:34 --> 00:29:36: So you're right, we we do, 00:29:36 --> 00:29:41: we're we're the culprits on on a lot of fronts 00:29:41 --> 00:29:43: and and it's not just, 00:29:43 --> 00:29:48: it's not where where a design build maintainer, 00:29:48 --> 00:29:51: so we have a lot of obligations with respect to 00:29:51 --> 00:29:51: noise. 00:29:51 --> 00:29:53: So that's that's number one.

00:29:53> 00:29:58:	And so, because we're responsible for design and for construction
00:29:58> 00:30:00:	and for maintenance,
00:30:00> 00:30:04:	we have to look at our design and our construction.
00:30:04> 00:30:07:	Through that through a 30 year life cycle or like
00:30:07> 00:30:08:	actually 35 years,
00:30:08> 00:30:12:	if you included the construction period so.
00:30:12> 00:30:16:	We have to look at construction is really interesting and
00:30:16> 00:30:20:	and and of course that's going on right now we
00:30:20> 00:30:24:	have a lot of neighbors and you know to Carlton's
00:30:24> 00:30:27:	point, I'm I have no doubt that the city gets
00:30:27> 00:30:31:	a lot of complaints about the long term construction that's
00:30:31> 00:30:34:	been going on on the crosstown and interestingly.
00:30:34> 00:30:39:	We do not have to comply with the city's restrictions
00:30:39> 00:30:41:	on overnight work.
00:30:41> 00:30:47:	And that would that determination was made back in 2018.
00:30:47> 00:30:50:	I believe it was about 2018 where we it was
00:30:50> 00:30:54:	determined that we didn't need to apply for permits.
00:30:54> 00:30:57:	We already had permission to do tunnelling work and and
00:30:57> 00:31:00:	work in the tunnels without restriction.
00:31:00> 00:31:04:	But we still need to comply with the noise limits.
00:31:04> 00:31:08:	The construction noise limits what we have done as as
00:31:08> 00:31:11:	a contractor is we have adapted.
00:31:11> 00:31:15:	Our protocols to make sure that that our neighbors know
00:31:16> 00:31:19:	when we're going to be doing overnight work.
00:31:19> 00:31:21:	We're not required to do it,
00:31:21> 00:31:24:	but we do. We did develop a protocol in consultation
00:31:24> 00:31:26:	with the city and our client to say we do
00:31:26> 00:31:29:	need to let the neighbors know if we're doing an
00:31:29> 00:31:32:	overnight concrete pour. We we really do need to let
00:31:32> 00:31:35:	them know and that that's an attempt to try to
00:31:35> 00:31:38:	minimize the complaints and give people a heads up that
00:31:38> 00:31:41:	that these types of things are happening.
00:31:41> 00:31:44:	In terms of controls during construction,
00:31:44> 00:31:49:	we have an extensive noise and vibration control program.
00:31:49> 00:31:52:	We have developed it as part of our project agreement
00:31:52> 00:31:57:	with the province and that goes into excruciating detail on
00:31:57> 00:32:00:	the the types of noise that limits on every type
00:32:00> 00:32:03:	of a construction equipment that we bring on site.
00:32:03> 00:32:07:	So those sources of limits come from a variety of
00:32:07> 00:32:08:	documents,
00:32:08> 00:32:10:	some of them are provincial summer,

00:32:10> 00:32:14:	federal, and. Actually, some believe it or not come from
00:32:14> 00:32:17:	the United States from FHW A and a couple of
00:32:17> 00:32:19:	other sources as well.
00:32:19> 00:32:23:	So we have drawn from a lot of experience on
00:32:23> 00:32:28:	these large construction projects to be able to manage noise
00:32:28> 00:32:31:	and to Nicholas's point we have.
00:32:31> 00:32:35:	We have monitoring points at every single construction site
	so
00:32:35> 00:32:40:	we are constantly monitoring noise and we have an obligation
00:32:40> 00:32:42:	to in our plans to report.
00:32:42> 00:32:46:	Always, noise exceedances within 24 hours of those of the
00:32:46> 00:32:48:	noise limits being exceeded,
00:32:48> 00:32:51:	and then we will do an investigation and find out
00:32:51> 00:32:52:	why why that happened.
00:32:52> 00:32:56:	So we have a lot of controls at right at
00:32:56> 00:33:00:	the ground level of our construction activity,
00:33:00> 00:33:02:	so then we come to the design of transit.
00:33:02> 00:33:07:	While transit is obviously has multiple sources for noise and
00:33:07> 00:33:11:	vibration and the the surface stuff is pretty obvious we
00:33:11> 00:33:12:	have.
00:33:12> 00:33:15:	Trains running on rail. We have some of the vibration
00:33:15> 00:33:18:	that might come as a result of that and just
00:33:18> 00:33:21:	the vehicles operating on their own.
00:33:21> 00:33:25:	Fortunately, they are electric vehicles so that that certainly
00.00.05 > 00.00.00	does
00:33:25> 00:33:26:	help.
00:33:26> 00:33:28:	But we also have other sources of noise that people
00:33:28> 00:33:29:	may not think about.
00:33:29> 00:33:32:	We have our big yard where there is obviously a
00:33:32> 00:33:34:	lot of movement of vehicles,
00:33:34> 00:33:37:	a lot of industrial type activity that happens.
00:33:37> 00:33:41:	We have bus terminals. There are two bus terminals that
00:33:41> 00:33:44:	we are building brand new and those are at two
00:33:45> 00:33:46:	different locations.
00:33:46> 00:33:50:	Ones near a new residential development at Don Mills and
00:33:50> 00:33:54:	Eglinton and the other one is out at Mount Dennis
00:33:54> 00:33:55:	nearby the the rail.
00:33:55> 00:34:01:	So obviously very different environments and we have to design
00:34:01> 00:34:06:	to maximum performance limits for those particular facilities.
00:34:06> 00:34:09:	We also have for all the underground we have all
00:34:09> 00:34:13:	of the ventilation equipment and when those fans are running

00:34:13> 00:34:16:	there they can be quite loud.
00:34:16> 00:34:17:	They don't run all the time,
00:34:17> 00:34:20:	but when they do they can be quite loud.
00:34:20> 00:34:22:	So we have to make sure that they meet the
00:34:22> 00:34:23:	performance limits,
00:34:23> 00:34:26:	the maximum noise and vibration.
00:34:26> 00:34:29:	That comes from those. We also have traction power substations,
00:34:29> 00:34:33:	their electrical equipment. It runs all the time,
00:34:33> 00:34:37:	so again. We have to meet specific performance limits for
00:34:37> 00:34:41:	the those traction power substations and the location of them.
00:34:41> 00:34:45:	You know, some of them are located in what you'd
00:34:45> 00:34:47:	consider more sensitive areas,
00:34:47> 00:34:50:	so there's a lot to consider when it comes to
00:34:50> 00:34:52:	both the design,
00:34:52> 00:34:57:	construction and and long-term operation of of these large transit
00:34:57> 00:34:58:	projects.
00:34:58> 00:35:01:	And you know the province has done has gone a
00:35:01> 00:35:05:	long way to identifying what those controls need to be.
00:35:05> 00:35:08:	Both on the construction site and on the design
00:35:08> 00:35:11:	side. So it sounds it sounds like there is a
00:35:11> 00:35:12:	lot of noise,
00:35:12> 00:35:14:	but that you're also doing,
00:35:14> 00:35:16:	you know, quite a lot going going above and beyond,
00:35:16> 00:35:18:	you know, I wonder how?
00:35:18> 00:35:22:	How much can the development and construction industry be expected
00:35:22> 00:35:24:	to improve the noise like it?
00:35:24> 00:35:25:	Is there more that can be done?
00:35:25> 00:35:28:	Or should should it be being done some somewhere else
00:35:28> 00:35:29:	by somebody else?
00:35:29> 00:35:31:	Somebody else be responsible for maintaining?
00:35:33> 00:35:37:	Well, I'd say I'd say you know some of the
00:35:37> 00:35:41:	provisions that are in in our contract are taking that
00:35:41> 00:35:45:	next step to to ensure that there are controls and
00:35:45> 00:35:50:	there are mechanisms for ensuring that you meet the performance
00:35:50> 00:35:51:	requirements.
00:35:51> 00:35:56:	I I think there's there's some documents that are quite
00:35:56> 00:36:01:	old that definitely need to review some of the noise.
00:36:01> 00:36:03:	The noise criteria for subway.

00:36:03> 00:36:08:	As an example, for underground transit comes from the from
00:36:08> 00:36:09:	the 1990s,
00:36:09> 00:36:16:	so it's it's stated and and probably could stand a
00:36:16> 00:36:17:	review.
00:36:17> 00:36:21:	And also just the decision making some of the interesting
00:36:21> 00:36:22:	parts for me.
00:36:22> 00:36:27:	I came from a long history of transit planning,
00:36:27> 00:36:29:	going back to the 90s and and some of the
00:36:29> 00:36:33:	decisions that are being made around the location of,
00:36:33> 00:36:36:	say, bus terminals. The one at Don Mills and Eglinton
00:36:36> 00:36:39:	is a really good example because it's not.
00:36:39> 00:36:41:	Not the best location you know.
00:36:41> 00:36:47:	If you had. If you had consideration for noise during
00:36:47> 00:36:52:	during the assessment of of the locations,
00:36:52> 00:36:54:	there might have been a slightly different decision on the
00:36:54> 00:36:55:	location.
00:36:55> 00:36:59:	So there's there's some front end planning conversations that really
00:36:59> 00:37:01:	need to bring the noise at the long term.
00:37:01> 00:37:05:	Noise and vibration and the planning together a little bit
00:37:05> 00:37:10:	better and then also on the performance requirements for transit.
00:37:10> 00:37:13:	And the considerations that need to be brought into the
00:37:14> 00:37:15:	into the discussion.
00:37:16> 00:37:19:	Helping you the you're the recipient of of these things.
00:37:19> 00:37:20:	What? What do you think?
00:37:20> 00:37:22:	Do you think that there's there should be so much
00:37:22> 00:37:23:	directed?
00:37:23> 00:37:25:	I mean this, it feels like there's a bit of
00:37:25> 00:37:27:	an air of inevitability to the whole discussion of there
00:37:27> 00:37:28:	is noise.
00:37:28> 00:37:31:	It's going to happen. Should there be another position we
00:37:31> 00:37:31:	should take?
00:37:37> 00:37:40:	A question, and I think it's a shared response and
00:37:40> 00:37:42:	I think that's why this panel today actually is is
00:37:42> 00:37:45:	very well rounded and has people from all the different
00:37:45> 00:37:46:	industries we all care about this.
00:37:46> 00:37:49:	We all want to live together to work together and
00:37:49> 00:37:51:	to be able to enjoy our community.
00:37:51> 00:37:54:	So I really think it's a shared experience.
00:37:54> 00:37:57:	It's something that we we struggle with all the time
00:37:57> 00:37:58:	and finding that balance.
00:37:58> 00:38:02:	The balance between the industry that's looking for more
	-

	flexibility
00:38:02> 00:38:04:	and then the the residents who are looking for it
00:38:05> 00:38:05:	to be stricter.
00:38:05> 00:38:08:	So we have to land in the middle somewhere and
00:38:08> 00:38:09:	it's very challenging,
00:38:09> 00:38:13:	but it's it's really important that we as an industry
00:38:13> 00:38:18:	and regulators work together and understand that there is an
00:38:18> 00:38:20:	impact to noise,
00:38:20> 00:38:24:	but it does impact everyone differently so there isn't one size fits all.
00:38:24> 00:38:25: 00:38:25> 00:38:28:	
00:38:28> 00:38:28:	Every site is different and I'm glad you know to hear.
00:38:28> 00:38:31:	Jennifer talking about the the Christie site and how it's
00:38:31> 00:38:34:	being set up and how they're trying to manage what
00:38:34> 00:38:37:	they know is going to be noise and people want
00:38:37> 00:38:39:	to be able to open their windows.
00:38:39> 00:38:41:	People want to be able to sleep at night and
00:38:41> 00:38:44:	then we have the the new hybrid work model where
00:38:44> 00:38:46:	more people are working from home.
00:38:46> 00:38:51:	We're closer to construction. We're closer to everything and,
00:38:51> 00:38:53:	you know, we're all getting used to it,
00:38:53> 00:38:55:	but it is. It is always going to be there,
00:38:55> 00:38:56:	and I think it's a shared responsibility.
00:38:57> 00:38:59:	I'm I'm hoping that everyone's going to get their house
00:38:59> 00:39:02:	renovations over within this first couple of years because
	everyone
00:39:02> 00:39:04:	showed up at home and so I'm sitting working from
00:39:04> 00:39:06:	home. It's it's nonstop, you know,
00:39:06> 00:39:09:	construction noise from people swinging hammers.
00:39:09> 00:39:11:	Do you think Nick that there are?
00:39:11> 00:39:14:	There are some things that that can be done which
00:39:14> 00:39:16:	are quite easy or or more obvious.
00:39:16> 00:39:17:	To kind of mitigate these noises.
00:39:18> 00:39:22:	There's there's always something there was always something and you
00:39:22> 00:39:25:	know very familiar with a lot of the systems that
00:39:25> 00:39:26:	they have out there,
00:39:26> 00:39:30:	and the ideas that people have there is.
00:39:30> 00:39:32:	I guess some idea that you can make case on
00:39:32> 00:39:35:	drilling if you're doing a big building you have a
00:39:35> 00:39:38:	big drill and you're gonna put a big hole in
00:39:38> 00:39:41:	the ground. That's never going to be quiet.

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00:39:41 --> 00:39:44:
                          It can be reduced. You can have local barriers.
00:39:44 --> 00:39:47:
                          You can have timing, but that's just never going to
00:39:47 --> 00:39:47:
                          be quiet.
00:39:47 --> 00:39:51:
                          Having said that, we can see that we don't do
00:39:51 --> 00:39:53:
                          pal driving anymore.
00:39:53 --> 00:39:57:
                          Hurry, compact is something that's used to compact material.
00:39:57 --> 00:40:00:
                          Again, we used to have massive pieces of equipment that
00:40:00 --> 00:40:03:
                          you know you could hear it perfect kilometer away.
00:40:03 --> 00:40:06:
                          Now there's other types of equipment that they have,
00:40:06 --> 00:40:07:
                          so there are always ideas.
00:40:07 --> 00:40:10:
                          There's always equipment that's improving.
00:40:10 --> 00:40:13:
                          We're actually. I don't know how much it's reached the
00:40:13 --> 00:40:16:
                          construction industry as the question for Jennifer.
00:40:16 --> 00:40:18:
                          But electric vehicles we're seeing,
00:40:18 --> 00:40:21:
                          certainly on a number of mining and aggregate sites.
00:40:21 --> 00:40:24:
                          And you know that that's going to propagate its way
00:40:24 --> 00:40:25:
                          into the city.
00:40:25 --> 00:40:28:
                          A common complaint I'll show you here called in backup
00:40:28 --> 00:40:32:
                          because I think all I would say a large majority
00:40:32 --> 00:40:36:
                          of projects in Toronto they use new technology now whisper
00:40:36 --> 00:40:39:
                          hush kits. I know they're mandated on many projects,
00:40:39 --> 00:40:42:
                          provincial and federal, and municipal projects,
00:40:42 --> 00:40:45:
                          so there's always something it is changing,
00:40:45 --> 00:40:49:
                          but for the idea that you will be able to,
00:40:49 --> 00:40:51:
                          you know. Never hear anything.
00:40:51 --> 00:40:53:
                          Never heard the building going up next to you.
00:40:53 --> 00:40:56:
                          I think that that's where that dialogue comes in and
00:40:56 --> 00:40:56:
                          you know,
00:40:56 --> 00:40:58:
                          I'm so happy to hear all the things that you
00:40:58 --> 00:40:59:
                          wanna have said and done,
00:40:59 --> 00:41:02:
                          because again, we're seeing that also on a lot of
00:41:02 --> 00:41:03:
                          private developers as well.
00:41:03 --> 00:41:05:
                          And I think more and more of it is going
00:41:05 --> 00:41:07:
                          to become the expectation and norm.
00:41:08 --> 00:41:11:
                          I feel like in in Toronto we're still kind of
00:41:11 --> 00:41:13:
                          doing things the same way you know the the older
00:41:13 --> 00:41:16:
                          some you know probably other people would say this,
00:41:16 --> 00:41:19:
                          but you know once when I was a young architect,
00:41:19 --> 00:41:22:
                          somebody said to me everything in the end and construction
00:41:22 --> 00:41:25:
                          comes down to somebody on a site swinging a hammer.
00:41:25 --> 00:41:26:
                          And that's the sort of the noisy way of getting
00:41:27 --> 00:41:27:
                          things done.
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00:41:29 --> 00:41:31: you know, every time you Draw Something you think. 00:41:31 --> 00:41:32: How was this really happening? 00:41:32 --> 00:41:33: You know? And in my mind, 00:41:33 --> 00:41:35: it's happening in some, you know, 00:41:35 --> 00:41:38: lavish factory far away and you know with robots putting 00:41:38 --> 00:41:39: it together. 00:41:39 --> 00:41:42: And that somehow now is becoming more of a reality 00:41:42 --> 00:41:44: and a lot of noise mitigation has. 00:41:44 --> 00:41:48: It is able to happen through offsite production example, 00:41:48 --> 00:41:50: we just we can see behind me or what office 00:41:51 --> 00:41:53: building that we did and the the amount of 00:41:53 --> 00:41:57: noise on that site compared to a more customary concrete 00:41:57 --> 00:41:59: construction is is quite remarkable. 00:41:59 --> 00:42:01: How quiet it is Jennifer, 00:42:01 --> 00:42:03: do you do you? Are you seeing more of that? 00:42:03 --> 00:42:07: So more construction techniques or new things which might help to offset some of the construction noise? 00:42:07 --> 00:42:09: 00:42:11 --> 00:42:14: Yeah, I mean, we're we're always focusing on trying to 00:42:14 --> 00:42:17: make sure we're engaging with all of our stakeholders. 00:42:17 --> 00:42:20: I think that's that's key and it's becoming even more 00:42:20 --> 00:42:20: crucial. 00:42:20 --> 00:42:23: I think residents groups are becoming better organized, 00:42:23 --> 00:42:29: better informed. They know what they are entitled to expect 00:42:29 --> 00:42:31: during construction. 00:42:31 --> 00:42:34: We're trying to be a little bit more proactive in 00:42:34 --> 00:42:36: dealing with with them, 00:42:36 --> 00:42:39: especially in the neighborhoods that we know are going to 00:42:39 --> 00:42:40: be highly sensitive, 00:42:40 --> 00:42:43: you know. We we tend to focus on what we 00:42:43 --> 00:42:44: call super urban, 00:42:44 --> 00:42:47: which is, you know, part of our strategy which we 00:42:47 --> 00:42:50: define in part as being close to transit highly dense 00:42:50 --> 00:42:51: areas. 00:42:51 --> 00:42:53: You know all of these things means you know you're 00:42:53 --> 00:42:54: close to transit, 00:42:54 --> 00:42:55: but you're also going to be close to noise, 00:42:55 --> 00:42:56: so I think that's you know. 00:42:56 --> 00:42:58: I think Carlton was alluding to that too. 00:42:58 --> 00:43:00: There's a trade off of living in in a in 00:43:00 --> 00:43:02: a busy city and and you're close to these amenities

And for a long time that that was,

00:41:27 --> 00:41:29:

00:43:02> 00:43:04:	and these great conveniences.
00:43:04> 00:43:07:	But you also will be encountering noise as we continue
00:43:07> 00:43:07:	with this,
00:43:07> 00:43:11:	you know, construction, boom, that we're seeing so.
00:43:11> 00:43:13:	And I touched that engagement and I think it's it's.
00:43:13> 00:43:17:	It's doubly important for for us and companies like us
00:43:17> 00:43:20:	because we actually a lot of our development projects are
00:43:20> 00:43:23:	located on sites that we own and operate a shopping
00:43:23> 00:43:27:	center. So that's that, was kind of the the initial
00:43:27> 00:43:30:	model for us as as retail developers,
00:43:30> 00:43:33:	and we're now looking at those properties as development
	opportunities
00:43:33> 00:43:34:	for mixed use.
00:43:34> 00:43:38:	But in in doing so creates another challenge which is
00:43:38> 00:43:41:	keeping our tenants happy and our retail tenants so.
00:43:41> 00:43:44:	So we need to make sure that when we are
00:43:44> 00:43:46:	doing these construction projects,
00:43:46> 00:43:49:	we're not only keeping the local residents fully apprised,
00:43:49> 00:43:53:	but also our tenants and making sure that we're taking
00:43:53> 00:43:56:	steps to to make sure that they remain successful,
00:43:56> 00:43:59:	because in turn that that helps us and,
00:43:59> 00:44:00:	and making sure that we're not,
00:44:00> 00:44:04:	you know, closing off entrances or or or,
00:44:05> 00:44:09:	you know, preventing access to those to those shops.
00:44:09> 00:44:11:	We also work extensively with the residents.
00:44:11> 00:44:15:	Construction management plans. We do complete.
00:44:15> 00:44:16:	You know the vibration monitoring,
00:44:16> 00:44:19:	which is a requirement, but we go above and beyond
00:44:19> 00:44:21:	in some cases which I think Joanna was mentioning which
00:44:21> 00:44:24:	was measuring noise levels and reporting to the residents or
00:44:24> 00:44:28:	to stakeholders on when we've exceeded and why.
00:44:28> 00:44:32:	And you know, there's a balance between keeping and I
00:44:32> 00:44:33:	think Richard,
00:44:33> 00:44:36:	you were you were talking about this is is keeping
00:44:36> 00:44:39:	on schedule and keeping you know as as contemplated during
00:44:39> 00:44:42:	the design in terms of timing to complete these projects.
00:44:42> 00:44:45:	And the delays that we encounter when we're trying to
00:44:45> 00:44:47:	manage through these noise complaints so,
00:44:47> 00:44:51:	so there's a lot to balance when we're considering being
00:44:51> 00:44:51:	on site.
00:44:53> 00:44:55:	Great points to add something.
00:44:56> 00:44:58:	I just want to say Jennifer,

00:44:58> 00:45:01:	I love that too super super urban I I had
00:45:01> 00:45:04:	not heard that before and I think that is such
00:45:04> 00:45:05:	a fantastic too.
00:45:05> 00:45:11:	Interestingly, some of the planning documents will change the 2013
00:45:11> 00:45:12:	for a new class.
00:45:12> 00:45:13:	Don't need to go into the details,
00:45:13> 00:45:17:	but I think that's an even better term because that
00:45:17> 00:45:18:	is what we see.
00:45:18> 00:45:23:	You have existing development going into a city of Toronto
00:45:23> 00:45:24:	world Class city.
00:45:24> 00:45:27:	We talked about these 24 hour cities and yet.
00:45:27> 00:45:30:	We still have these. Not quite archaic,
00:45:30> 00:45:33:	but you know, not fully updated documents that don't address
00:45:33> 00:45:35:	this super urban environment that we live in.
00:45:35> 00:45:37:	I just I just love that term.
00:45:38> 00:45:42:	I think you know, as as we become super urban
00:45:42> 00:45:43:	as well,
00:45:43> 00:45:45:	you know the cost is on is on everyone's mind.
00:45:45> 00:45:48:	I think we we can't not address issues with proper
00:45:48> 00:45:52:	expenditure and how that that passes on to people.
00:45:52> 00:45:55:	Is there anything advantageous about noise mitigation?
00:45:55> 00:45:59:	That kind of reduces costs for things.
00:45:59> 00:46:02:	So kind of a flyer question that everyone suddenly thinking.
00:46:02> 00:46:02:	Well,
00:46:03> 00:46:07:	well, I'll jump in there from the engineering point of
00:46:07> 00:46:09:	view and we we see it that one thing is
00:46:10> 00:46:12:	if you can do more and make less noise,
00:46:12> 00:46:17:	things can happen faster and speed certainly makes things well.
00:46:17> 00:46:20:	Maybe not cheaper, but certainly you have things happen faster,
00:46:20> 00:46:24:	but you're absolutely correct. We talk about monitoring journey.
00:46:24> 00:46:27:	You talk about all of these things and they are
00:46:28> 00:46:29:	additional costs that.
00:46:29> 00:46:31:	Are going to exist and and you can't ignore that
00:46:31> 00:46:32:	there there is one.
00:46:33> 00:46:36:	Are there? Are there some new construction techniques that
	we
00:46:36> 00:46:37:	should talk to?
00:46:37> 00:46:40:	I think Joanna you've got some in mind.
00:46:40> 00:46:40:	Well,

00:46:42 --> 00:46:45: and I think we're now that we've done. 00:46:45 --> 00:46:49: We've shown that these underground mining operations, 00:46:49 --> 00:46:53: which we've done on four stations on the Crosstown, 00:46:53 --> 00:46:58: can really help mitigate noise complaints at the at these 00:46:58 --> 00:46:59: locations. 00:46:59 --> 00:47:02: So we have four. One of them is at Ave 00:47:02 --> 00:47:02: Road, 00:47:02 --> 00:47:05: and you can imagine that neighborhood has a lot of 00:47:05 --> 00:47:06: residences. 00:47:06 --> 00:47:10: a lot of sensitive, more probably more sensitive. 00:47:10 --> 00:47:12: This is and we have we did. 00:47:12 --> 00:47:15: We did mining for that particular station, 00:47:15 --> 00:47:16: so we did not open up the road. 00:47:16 --> 00:47:19: We opened up two openings. 00:47:19 --> 00:47:22: All of the excavation work was done underground, 00:47:22 --> 00:47:25: so all of that really does does do a lot 00:47:25 --> 00:47:28: in terms of mitigation of noise. 00:47:28 --> 00:47:31: Now clearly you're going to have the same number of 00:47:31 --> 00:47:34: trucks because you still have to haul material away, 00:47:34 --> 00:47:39: but the actual excavation work is is really it is 00:47:39 --> 00:47:40: far underground. 00:47:40 --> 00:47:42: And so that really does help. 00:47:42 --> 00:47:46: And Toronto really hadn't had a lot of experience with 00:47:46 --> 00:47:51: that for constructing subway stations or underground stations. 00:47:51 --> 00:47:53: And now that we've had some experience with it, 00:47:53 --> 00:47:55: and we've shown that it works, 00:47:55 --> 00:47:59: I think you're going to see more of that happening. 00:47:59 --> 00:48:01: And that's just how it helps everybody. 00:48:01 --> 00:48:02: It's not just a noise, 00:48:02 --> 00:48:06: noise and vibration issue, it's also traffic. 00:48:06 --> 00:48:10: Because you're not reducing the number of traffic lanes and 00:48:10 --> 00:48:14: creating congestion and adding all of that into the mix 00:48:14 --> 00:48:15: it does. 00:48:15 --> 00:48:16: It does help on a lot of fronts, 00:48:16 --> 00:48:19: so for us. There were. 00:48:19 --> 00:48:21: There were a lot of benefits from for doing it 00:48:21 --> 00:48:23: and it wasn't just about noise and vibration. 00:48:24 --> 00:48:26: You know what I mean when you talk about mining? 00:48:26 --> 00:48:29: Suddenly I'm thinking you're getting some diamonds and 00:48:29 --> 00:48:31: and that's how you're paying for the for the.

in particular on the crosstown,

00:46:40 --> 00:46:42:

00:48:32 --> 00:48:38: Glacial till is what we're minding and Sand Ave station. 00:48:38 --> 00:48:41: I was there when they were doing the excavation and 00:48:41 --> 00:48:41: it was. 00:48:41 --> 00:48:44: It was like being on a really wet beach so 00:48:44 --> 00:48:46: it's pretty lucrative. 00:48:46 --> 00:48:50: Yeah, yeah. We've just got a couple of minutes, 00:48:50 --> 00:48:52: but we have to go to the Q&A. 00:48:52 --> 00:48:54: I'm wondering if any of you would like to add 00:48:54 --> 00:48:57: any any final comments after this Carlton you heard from 00:48:57 --> 00:48:57: you for awhile. 00:48:57 --> 00:49:00: If you have anything or anybody else. I think I saw some stuff for me in the 00:49:02 --> 00:49:04: 00:49:04 --> 00:49:04: Q&A. 00:49:04 --> 00:49:08: so I'll probably hold off until there there's some stuff 00:49:08 --> 00:49:11: vehicles which is very challenging and I can speak to 00:49:11 --> 00:49:12: that in the Q&A. 00:49:12 --> 00:49:15: It's not necessarily pertaining to development or construction, 00:49:15 --> 00:49:17: so I'll I'll hold off until we get to the 00:49:17 --> 00:49:17: Q&A. 00:49:19 --> 00:49:22: Nicholas, Jennifer, John, or anything else you'd like to add 00:49:22 --> 00:49:23: or would jump to the Q&A. 00:49:25 --> 00:49:27: I think go to the Q&A would be good. 00:49:28 --> 00:49:32: OK, great so I will start with that. 00:49:34 --> 00:49:39: So first question is from Nikita. 00:49:39 --> 00:49:44: As an acoustic consultant, I'm guessing that's for for Nick. 00:49:44 --> 00:49:47: Do you deal with? Do you also deal with vibration? 00:49:47 --> 00:49:50: What are the issues surrounding the management of vibration? 00:49:51 --> 00:49:53: Good question, thank you. Yes yes, 00:49:53 --> 00:49:56: vibration is considered in. When we say sound or noise, 00:49:56 --> 00:49:58: but it's acoustics, noise and vibration. 00:49:58 --> 00:50:03: Vibration is generated by tunnel boring machines by rail traveling 00:50:03 --> 00:50:04: while they're moving. 00:50:04 --> 00:50:06: It is something that is absolutely assessed there. 00:50:06 --> 00:50:09: There are a number of processes and enjoying you spoke 00:50:10 --> 00:50:10: of the FHWA. 00:50:10 --> 00:50:13: They're well laid out process for assessing, 00:50:13 --> 00:50:18: determining the vibration, assessing the vibration mitigation, 00:50:18 --> 00:50:20: myriad events, a lot of it done. 00:50:20 --> 00:50:22: Not the source. I'm sure John. 00:50:22 --> 00:50:24: You could probably spend an hour talking about,

00:50:26 --> 00:50:29: but there are a number of things that are done 00:50:29 --> 00:50:33: that many of the real authorities are doing to minimize 00:50:33 --> 00:50:35: it from even getting into the ground. 00:50:35 --> 00:50:37: And that is as an engineer the most effectively prevented 00:50:37 --> 00:50:40: from getting into the ground and you really don't need 00:50:40 --> 00:50:41: to worry about anything else. 00:50:43 --> 00:50:47: Great, next I have a question from says Adeline. 00:50:47 --> 00:50:51: When the mitigation becomes too expensive or result in a 00:50:51 --> 00:50:54: built form that isn't commercially acceptable, 00:50:54 --> 00:50:58: what should we give? I'm not sure who who that's 00:50:58 --> 00:51:01: going to be best for. 00:51:01 --> 00:51:01: Maybe 00:51:01 --> 00:51:04: jump in and then feel free to tack on to 00:51:04 --> 00:51:05: what I'm saying, 00:51:05 --> 00:51:07: so I think there's a few things to consider. 00:51:07 --> 00:51:08: First and foremost, I mean, 00:51:08 --> 00:51:11: I mentioned the building envelope is being a key. 00:51:11 --> 00:51:13: You know mitigator of noise. 00:51:13 --> 00:51:15: It's also one of the most expensive ways to mitigate 00:51:15 --> 00:51:16: noise. 00:51:16 --> 00:51:21: I think, so there are smaller scale ways to mitigate 00:51:21 --> 00:51:25: noise so you know as as as small as looking 00:51:25 --> 00:51:25: at. 00:51:25 --> 00:51:29: You know, we've added. And and this happens quite often. 00:51:29 --> 00:51:31: And is, you know, in the in the little kind 00:51:31 --> 00:51:34: of threshold between a parking garage entrance and your and 00:51:35 --> 00:51:35: the driveway, 00:51:35 --> 00:51:37: there's that trench drain with the metal. 00:51:37 --> 00:51:40: Kind of great. We've added some rubberized material inside to 00:51:41 --> 00:51:42: prevent that noise, 00:51:42 --> 00:51:45: right? So there's you know there's pavers in a in 00:51:45 --> 00:51:49: a parking lobby entrance that create noise if they're loose 00:51:49 --> 00:51:50: so you, 00:51:50 --> 00:51:51: you can kind of mitigate it. 00:51:51 --> 00:51:53: That way, you can do isolation inside your buildings along 00:51:53 --> 00:51:54: with garbage shoots, 00:51:54 --> 00:51:58: which is another big, big issue that we're seeing. 00:51:58 --> 00:52:02: And and elevator cores. You know, 00:52:02 --> 00:52:04: I think. Also, as you know, 00:52:04 --> 00:52:07: as I think it helps in that the TGS and

you know track isolation slab design,

00:50:24 --> 00:50:26:

00:52:07> 00:52:11:	the ESE and green standards are also changing which.
00:52:11> 00:52:15:	It doesn't kind of directly necessarily translate,
00:52:15> 00:52:17:	but I think just by virtue of those changes,
00:52:17> 00:52:20:	we're going to see some noise attenuation coming along with
00:52:20> 00:52:20:	it,
00:52:20> 00:52:22:	as maybe a fringe benefit.
00:52:22> 00:52:25:	So I'm thinking about you know,
00:52:25> 00:52:28:	obviously increased building performance is going to become more of
00:52:28> 00:52:28:	a requirement,
00:52:28> 00:52:31:	but also, you know we're using geothermal technology in a
00:52:31> 00:52:32:	lot of our buildings,
00:52:32> 00:52:36:	which reduces the need for this traditional mechanical equipment and
00:52:36> 00:52:38:	mechanical penthouse,
00:52:38> 00:52:41:	which is another major sound of our major source of
00:52:41> 00:52:41:	noise,
00:52:41> 00:52:43:	so that that. Helps us and then of course you
00:52:43> 00:52:46:	know we're we're along the go go rail corridor and
00:52:46> 00:52:49:	I know that there is an electrification project going to
00:52:49> 00:52:52:	be happening, which I think will help with that type
00:52:52> 00:52:53:	of noise as well,
00:52:53> 00:52:54:	because those trains are much quieter,
00:52:54> 00:52:57:	so there will be other ways to mitigate rather than
00:52:57> 00:53:00:	just these big ticket items that sometimes do get beat
00:53:00> 00:53:02:	out of the project at the end.
00:53:04> 00:53:07:	Johnny, do you have any special balancing of costs?
00:53:07> 00:53:09:	Things that you want to mention?
00:53:12> 00:53:16:	I mean, most of what we're doing right now is
00:53:16> 00:53:18:	already built into our contract,
00:53:18> 00:53:20:	so we're doing it. It's not.
00:53:20> 00:53:24:	It's not any. I don't think that it's anything really
00:53:24> 00:53:25:	extraordinary.
00:53:25> 00:53:29:	However, you know if if the newest contracts that
00:53:29> 00:53:34:	are coming out say for Ontario line as an example,
00:53:34> 00:53:39:	I'm started adding adding new requirements or updated
	requirements and
00:53:39> 00:53:44:	reduce noise levels that affects every piece of construction equipment
00:53:44> 00:53:45:	out there.
00:53:45> 00:53:49:	I think that's the point at which the construction industry
00:53:49> 00:53:51:	would say hold on a second.
00:53:51> 00:53:55:	You're asking me to retrofit every piece of equipment that

00:53:55> 00:53:55:	I've got.
00:53:55> 00:53:59:	So I I'd say that's that's likely to be more
00:53:59> 00:54:02:	of a limit to us than anything else is on
00:54:02> 00:54:04:	the equipment side,
00:54:04> 00:54:09:	because the equipments really. The equipment's really intrinsic to construction
00:54:10> 00:54:14:	and that's the area that we might actually there might
00:54:14> 00:54:18:	be pushback on that and and commercially it's it would
00:54:18> 00:54:19:	be very difficult to enforce.
00:54:20> 00:54:22:	Right, thank you now I'm.
00:54:22> 00:54:25:	I'm guessing this next one is for Carlton.
00:54:25> 00:54:28:	I would like to know why the source of noise
00:54:29> 00:54:29:	vehicles,
00:54:29> 00:54:32:	acceleration and speed is not enforced more.
00:54:32> 00:54:34:	This is from an anonymous attendee.
00:54:34> 00:54:38:	I understand that the loud mufflers on motorcycles and cars
00:54:38> 00:54:39:	are illegals are illegal.
00:54:39> 00:54:42:	They are the worst offenders for creating noise at all
00:54:42> 00:54:43:	times of day and night.
00:54:43> 00:54:47:	I've recorded over 100 decibels during night hours,
00:54:47> 00:54:49:	yet there seems to be very little enforcement.
00:54:49> 00:54:51:	Why isn't there more mitigation?
00:54:53> 00:54:56:	So yeah, I'll start with enforcement.
00:54:56> 00:54:58:	I'm not sure, but what they mean by mitigation.
00:54:58> 00:55:01:	We have a dedicated team made up of a Manager,
00:55:01> 00:55:03:	3 supervisors and 24 staff.
00:55:03> 00:55:06:	We have coverage for over 20 hours of the day,
00:55:06> 00:55:09:	so we have it. We are well aware of the
00:55:09> 00:55:11:	issues with motorcycles.
00:55:11> 00:55:14:	We have done blitzes where we have incidents of aftermarket
00:55:15> 00:55:19:	mufflers with both high performance cars and motorcycles and we
00:55:19> 00:55:21:	have done with this with the police.
00:55:21> 00:55:23:	What's important to note is that we are not.
00:55:23> 00:55:28:	Immediate responders, nor can we pull over a vehicle.
00:55:28> 00:55:31:	So we work closely with the police we identify based
00:55:31> 00:55:32:	on data and complaint data,
00:55:32> 00:55:36:	and we establish safe blitzes in key parts of the
00:55:36> 00:55:40:	city where this activity happens and we pull people over
00:55:40> 00:55:42:	with the police we measure and then we we,
00:55:42> 00:55:46:	we we fine or we want and so it's it's

00:55:46> 00:55:49:	been a good education piece.
00:55:49> 00:55:51:	It's a good enforcement piece,
00:55:51> 00:55:54:	it's something we're aware of and it's something we're
	actively
00:55:54> 00:55:54:	doing.
00:55:54> 00:55:57:	It is an education piece for the people putting on
00:55:57> 00:55:58:	these.
00:55:58> 00:56:02:	Aftermarket mufflers these body shops these that you're not helping
00:56:02> 00:56:06:	anyone and it's just it's just not acceptable in in
00:56:06> 00:56:09:	the community and when we do find it we work
00:56:09> 00:56:13:	with the police and we we do issue appropriate charges
00:56:13> 00:56:17:	when they exceed the noise levels that are in the
00:56:17> 00:56:17:	noise bylaw.
00:56:19> 00:56:22:	So you don't. You don't carrying a gun as part
00:56:22> 00:56:23:	of you go.
00:56:25> 00:56:28:	No, we we do not care guns and again it's
00:56:28> 00:56:31:	important to work with the police because.
00:56:31> 00:56:34:	We don't have the authority to pull people over,
00:56:34> 00:56:39:	you can't? We don't want our our staff chasing Chase
00:56:39> 00:56:41:	motorcycles.
00:56:41> 00:56:44:	You know, being on a ramp at DVP in Lawrence
00:56:44> 00:56:46:	it it needs to be done in a safe way.
00:56:46> 00:56:47:	But we need to get that message out.
00:56:47> 00:56:50:	And we've done a lot of work with public education
00:56:50> 00:56:52:	campaigns on on noise as well and something will continue
00:56:52> 00:56:52:	to do.
00:56:54> 00:56:58:	Thanks next, that was most from anonymous attendee,
00:56:58> 00:57:02:	author from another. I'm assuming it's a different anonymous attendee.
00:57:02> 00:57:07:	What are the regulatory mechanisms that ensure adequate acoustic separation
00:57:07> 00:57:11:	between suites in rental units being built in 2022?
00:57:11> 00:57:14:	Since Tyrion does not apply to rental units,
00:57:14> 00:57:16:	which I think that's maybe a good one for Nick
00:57:16> 00:57:16:	to stop.
00:57:16> 00:57:18:	I don't know if anybody else have anything else to
00:57:18> 00:57:18:	add.
00:57:20> 00:57:24:	I'll give a quick second if anyone wants to so.
00:57:24> 00:57:26:	Correct Tara and does not apply,
00:57:26> 00:57:30:	but of course the Ontario building Code always applies for
00:57:30> 00:57:34:	for anything that's built and and the code is quite
00:57:34> 00:57:37:	clear that you have to meet this engineers.

00:57:37> 00:57:42:	Lots of different engineers are hired and architects everyone goes
00:57:42> 00:57:43:	in and checks,
00:57:43> 00:57:49:	so whilst Tarion does certainly have a post construction testing,
00:57:49> 00:57:51:	that's great to tick a box.
00:57:51> 00:57:54:	I can't think of a single rental project that I've
00:57:54> 00:57:55:	worked on that.
00:57:55> 00:57:58:	We've gone through every step and and ensure that everything
00:57:58> 00:58:00:	was code compliant,
00:58:00> 00:58:01:	so it's great to have that.
00:58:01> 00:58:03:	But don't don't mistake that not having the check
00:58:04> 00:58:06:	at the end doesn't mean it's something's getting skipped.
00:58:06> 00:58:07:	It's not.
00:58:09> 00:58:13:	Great, thank you. So I just want to realize that
00:58:13> 00:58:16:	we are actually out of time,
00:58:16> 00:58:19:	so I want to thank everyone who who submitted a
00:58:19> 00:58:20:	question.
00:58:20> 00:58:23:	Unfortunately we don't have time to answer all the audience
00:58:23> 00:58:23:	questions,
00:58:24> 00:58:27:	but we will capture them for the future in order
00:58:27> 00:58:31:	to inform future programming by your large quarter.
00:58:31> 00:58:33:	So I want to thank all the speakers for the
00:58:33> 00:58:38:	overviews and discussions and for some excellent answers to questions
00:58:38> 00:58:40:	on behalf of Uli Toronto.
00:58:40> 00:58:42:	I want to thank all of our panelists for joining
00:58:42> 00:58:42:	us today.
00:58:42> 00:58:46:	Please be sure to check out your Toronto's upcoming programs.
00:58:46> 00:58:48:	Some very exciting events lined up.
00:58:48> 00:58:51:	You can register for any of them by following the
00:58:51> 00:58:51:	link in the chat.
00:58:51> 00:58:54:	We look forward to having you on a future webinar.
00:58:54> 00:58:56:	Enjoy the rest of your rainy day.
00:58:59> 00:59:02:	Thank you Richard. Thanks everyone.

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