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SANDY HOOK ADVISORY COMMISSION

FEBRUARY 15, 2013

9:36 AM

Legislative Office Building

Hartford, CT

- SCOTT JACKSON, Committee Chair
- ADRIENNE BENTMAN
- RON CHIVINSKI
- TERRY EDELSTEIN
- KATHLEEN FLAHERTY
- ALICE FORRESTER
- EZRA GRIFFITH
- CHRIS LYDDY
- PATRICIA KEAVNEY-MARUCA
- DENIS McCARTHY
- BARBARA O'CONNOR
- WAYNE SANDFORD
- HAROLD SCHWARTZ

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AGENDA

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- I. Call to Order
- II. Diane Harp Jones - Chief Executive Officer, American Institute of Architects - Connecticut Chapter
- III. Connecticut Architects
 - Randall S. Luther - Tai Soo Kim Architects
 - Richard Munday - Newman Architects
 - Richard T. Connell - S/L/A/M Collaborative
 - Jim LaPosta - JCJ Architects
- IV. Kenneth S. Trump, President, National School Safety and Security Services
- V. Mila Kennett - Project Manager, Federal Emergency Management Agency (Infrastructure Protection and Disaster Management Division)
- VI. Robert Mahoney - Executive Director, Emergency Management Group
- VII. Other Business
- VIII. Discussion
- IX. Adjournment

1 (The proceedings commenced at 9:36 a.m.)

2 CHAIRMAN JACKSON: Thanks for coming out this
3 morning. Thank you to the members of the panel for digging
4 yourselves out and being here today. This is the meeting
5 of the Sandy Hook Advisory Commission for February 15th,
6 2013, and I'll call this meeting to order at 9:36.

7 I would ask the members of the panel to introduce
8 themselves so that the people in the audience and those
9 watching on television know who we are. We'll start from
10 my left.

11 COMMISSIONER FORRESTER: I'm Alice Forrester.
12 I'm the Director of Clifford Beers Clinic in New Haven,
13 Connecticut.

14 COMMISSIONER CHIVINSKI: Ron Chivinski, Newtown
15 School District.

16 COMMISSIONER McCARTHY: Good morning, Denis
17 McCarthy, Fire Chief and Emergency Management Director for
18 the City of Norwalk.

19 COMMISSIONER SULLIVAN: Bernie Sullivan, retired
20 Police Chief for the City of Hartford, former Commissioner
21 of Public Safety and also had the pleasure of spending
22 eight years up here as Chief of Staff to two Speakers of
23 the House.

24 COMMISSIONER GRIFFITH: I'm Ezra Griffith. I'm a
25 faculty member in the Department of Psychiatry at the Yale

1 School of Medicine.

2 COMMISSIONER FLAHERTY: Kathy Flaherty, Staff
3 Attorney at Statewide Legal Services and Mental Health
4 Advocate.

5 COMMISSIONER SCHWARTZ: Harold Schwartz
6 Psychiatrist-in-Chief at the Institute of Living and Vice
7 President for Behavioral Health at Hartford Hospital.

8 COMMISSIONER O'CONNOR: I'm Barbara O'Connor,
9 Chief of Police at the University of Connecticut.

10 CHAIRMAN JACKSON: Scott Jackson, Mayor of the
11 Town of Hamden.

12 COMMISSIONER SCHONFELD: I'm David Schonfeld. I
13 direct the National Center for School Crisis and
14 Bereavement, and I'm also Pediatrician-in-Chief at St.
15 Christopher's Hospital for Children in Philadelphia.

16 COMMISSIONER BENTMAN: Adrienne Bentman, I'm a
17 psychiatrist, and I'm the Psychiatry Residency Program
18 Director at the Institute of Living, Hartford Hospital.

19 COMMISSIONER SANDFORD: My name is Wayne
20 Sandford. I am a professor at the University of New Haven
21 in Emergency Management and Fire Science. My background is
22 in as Deputy Commissioner of Emergency Management and
23 Homeland Security under Governor Rell and the Fire Chief in
24 East Haven, Connecticut.

25 COMMISSIONER EDELSTEIN: I'm Terry Edelstein.

1 I'm Governor Malloy's nonprofit liaison.

2 COMMISSIONER KEAVNEY-MARUCA: I'm Pat Keavney-
3 Maruca, retired special education teacher and member of the
4 State Board of Education.

5 COMMISSIONER LYDDY: Good morning. My name is
6 Christopher Lyddy. I'm the former state representative
7 from the Town of Newtown. I'm also a clinical social
8 worker, and I work for a company called Advanced Trauma
9 Solutions here in Connecticut, which disseminates a model
10 of therapy for children and adults with psychological
11 trauma.

12 CHAIRMAN JACKSON: Thank you all. A few pieces
13 of housekeeping. The first one you've all done. Remember
14 this is being recorded so please use your microphone, and
15 when you're completed turn them off so we don't get any
16 feedback. One of the things that came up at the first
17 meeting was that this process works best when you have a
18 recorder helping organize some large thoughts into
19 manageable chunks, and I'm happy to report that we have
20 such a recorder now, Professor Susan Schmieser from the
21 University of Connecticut Law School will be joining us and
22 assisting us in this project.

23 Today is a day where the educators who lost their
24 lives at Sandy Hook Elementary are being honored by the
25 President of the United States. This is a good day to

1 continue our meetings. I want to thank Ron for securing
2 the Newtown ribbons for us that we are wearing today in
3 commemoration of this tragedy, but the tragedy gives us
4 impetus to move forward, and that is what we are doing.

5 Today, I also want to thank Bob Ducibella, who
6 could not be here. Bob helped coordinate today's panel,
7 which is going to focus in on design issues as we construct
8 schools and public spaces. It's certainly one of the
9 elements that we need to address as part of this panel. So
10 we have a group of qualified experts to come before us and
11 give us some information on design and make some
12 recommendations so that moving forward we can make sure
13 that our schools and public spaces are as safe as they can
14 be.

15 So with that I would like to call Diana Harp
16 Jones, Chief Executive Officer of AIA Connecticut. Or not.

17 MR. CONNELL: Good morning. I'm speaking on
18 behalf of Diana Harp Jones. My name is Rich Connell. I'm
19 a current director and last year's president of AIA
20 Connecticut.

21 As the Connecticut chapter of the American
22 Institute of Architects, we represent the Connecticut
23 architectural community and by extension all design
24 professionals, architects, engineers and a host of
25 specialty consultants who provide design solutions for

1 Connecticut Schools.

2 AIA Connecticut came together very quickly after
3 the tragedy in Newtown and like so many others, considered
4 ways in which we could assist in the dialogue on making our
5 schools safer. We thank you for the opportunity this
6 morning to share our thoughts on this very important issue.

7 We have four presenters here this morning, four
8 architects who have devoted their careers to designing
9 state of the art learning environments for Connecticut
10 schools. They are Jim LaPosta, a principal and chief
11 architectural officer at JCJ Architecture in Hartford;
12 Richard Munday, a principal at Newman Architects in New
13 Haven; Glenn Gollenberg, a principal at the S/L/A/M
14 Collaborative Architects in Glastonbury; and Randall
15 Luther, a principal at Tai Soo Kim Architects in Hartford.

16 Our agenda for this morning will cover five areas
17 as we consider safe school environments beginning with an
18 introduction covering the context threat assessment and
19 creating safer schools while enhancing the educational
20 environment, continuing with an understanding of
21 situational awareness planning. Then we'll follow with the
22 discussion on physical environment that delves into schools
23 as centers of community and specific safe and secure site
24 and building design principles. Considering an extension
25 of these principles, we will look at examples of enhanced

1 protection that can be achieved through building systems
2 such as secure walls, doors and windows. Finally, we will
3 conclude with AIA Connecticut's recommendations related to
4 a process for existing schools as well as new construction
5 or expansion of existing schools.

6 And with that, I would like to begin our
7 presentation with Jim LaPosta.

8 MR. LaPOSTA: Rich, thank you. Good morning, and
9 thank you for the opportunity to present to you this
10 morning. My name is Jim LaPosta. I am a principal and
11 chief architectural officer with JCJ Architecture here in
12 Hartford, Connecticut, and I have been involved in the
13 design of school environment here in Connecticut for over
14 twenty-five years. That's been my exclusive focus.

15 My role this morning will be to set some context
16 around the conversation. As architects and design
17 professionals, our world revolves around context. It's
18 about understanding the impacts and the relationships
19 between the built environment and the way human beings
20 interact with them.

21 We want to talk a little bit this morning
22 initially about the context of threat assessment, about the
23 context of safe schools. As horrific and unspeakable as
24 the tragedy in Newtown was, it's not the only hazard that
25 we face in the school environment. There's some statistics

1 from the Department of Education and Department of Justice
2 that do show that while in fact there is a one in one
3 million odds of losing a child to homicide or suicide, the
4 much more real threat has to do with bullying, with being
5 threatened or injury in a school with petty theft, with
6 lots of environmental issues that may be fire, may be
7 hurricanes along our shoreline, and in fact, it may even be
8 seismic events as we're finding out even in New England.

9 So we're going to cover a wide range of threats
10 today. We're not simply going to focus on the most
11 horrific, but we do, in fact, have to think about every
12 possibility.

13 You can see the number of people that are in
14 school buildings every day, quite literally, almost a fifth
15 of our entire population as we speak with the exception of
16 probably some districts here in Connecticut are actually in
17 school right now. There are over six million teachers.
18 There are some 53 million students. So this is obviously a
19 critical issue. We're not telling you anything you don't
20 know, but we always find that it's helpful to begin with
21 some context setting.

22 One of the things we also know as design
23 professionals is that every one of our school buildings,
24 every one of our sites is unique. There really are no two
25 buildings alike. That's especially true in New England and

1 the State of Connecticut where we have small towns, big
2 cities. We have rural areas. We have urban areas. So
3 there will be no one-size-fits-all solution, and that's
4 something you'll hear repeatedly during the day today.

5 We also know that there's no risk-free
6 environment. We can mitigate risk. We can delay risk. We
7 can control risk, but there really is nothing we can do to
8 guarantee a risk-free environment through either
9 intervention on the social side or through intervention as
10 you work through the physical environment.

11 What we can do, however, is we can engage in a
12 threat assessment of our buildings. One of the things that
13 we always concern ourselves with is learning from what
14 happened before. We've learned from Columbine. We've
15 learned from Paducah. We've learned from Virginia Tech.
16 We've learned from many, many horrible events that have
17 happened. We've learned from fires in our buildings.
18 We've learned from other kinds of hazards, whether they be
19 biological, chemical or bullying, as we mentioned before.
20 And we learn a lot, but what we haven't learned yet is
21 what's going to happen next, and we always run the risk of
22 responding to the last event and not anticipating the next
23 event. While it's very difficult to know what will happen,
24 we have to play what-if scenarios and begin to think about
25 in our buildings what can happen that we have not yet

1 anticipated.

2 One of the ways we do that is that we look at our
3 buildings with what we would call a defense-in-depth
4 strategy. This is looking at every component of the
5 building and the site and understanding how we would both
6 control and prevent hazards in those areas. We start with
7 the edge of the site as you approach a public space or a
8 school ground. How can we make that more secure? When
9 you're on the site outside of the building, what's the
10 security protocols and the ability to secure that part of
11 the site? The perimeter of the building itself, the doors,
12 the walls, the windows, the points of entry, how do we
13 secure those? What can we do to make those much more
14 secure? The internal circulations, the hallways, the
15 stairwells, things can happen there, and then lastly, when
16 we're talking about schools, the final destination, the
17 classrooms, the gymnasium, the office, the places inside.

18 Now, we've listed these in order as if you were
19 approaching the school building, but the reality is that
20 hazards can arise in any one of these locations and move
21 forward, backward, inside and out. We can't only concern
22 ourselves with the person from the outside who is insistent
23 on doing harm to our children or our teachers. We also
24 have to worry about something that may originate within the
25 building, and if it happens, how do we know about it? How

1 do we understand it? How do we respond to it, and how can
2 we contain it? Whether that is a bullying incident or
3 something as horrible as a student with a gun.

4 So we're going to talk today about various
5 strategies and methodologies that not only will provide
6 safe and secure schools, but also secure schools that, in
7 fact, focus on learning. At the end of the day these
8 schools are about education. These are about warm,
9 nurturing, protective environments where our children can
10 learn to become productive citizens of our country. How
11 can we utilize protective design to enhance the educational
12 experience? Clearly, if someone feels safe and secure and
13 comfortable, one would think their learning will increase.
14 If someone is feeling anxious and nervous and somewhat
15 threatened, people focus on different things.

16 One of the things about learning is it needs to
17 encourage open environments, conversation, cross-
18 communication, all of the things that would seemingly fly
19 in the face of security, and we're going to demonstrate
20 today, we believe, some principles where we can provide
21 both of these.

22 We need to engage the parents and the community.
23 Schools work best, we know, when parents and the community
24 are involved. Schools are more difficult to secure when
25 parents and the community are involved. So how can we find

1 strategies to do all of that?

2 And most importantly, when something unexpected
3 occurs, and something unexpected will occur, how can we
4 manage that situation? How can we work with first
5 responders to make sure that we minimize the harm that can
6 be done in those environments?

7 It's a kind of a well-known premise within at
8 least our profession and within many educator's professions
9 that the environment that people are in is called the third
10 teacher. The first teacher is that classroom teacher at
11 the front of the room who is actually running the class.
12 The second teacher are the children's peers. We learn from
13 each other. We're learning today from each other in this
14 environment. Students learn from each other.

15 And then the third teacher, and this actually
16 comes out of the Montessori tradition and the Reggio Emilia
17 tradition is actually the third teacher, how you feel in a
18 room; the signals that it sends to a student are the things
19 that impact how they learn and how they feel.

20 The two images that are on the screen each evoke
21 I think in you a different feeling. If you look at the
22 image on the left, which is a fairly traditional 20th
23 Century classroom designed around a certain method and
24 model of education, you immediately understand how you
25 should behave in that room. It gives you a sense of how

1 you would feel in that room. Most of you can probably hear
2 the scratching and screeching of those desks as they move
3 around when you come in the classroom because we've all
4 been in that room. We know how uncomfortable those chairs
5 are. We know the way we're supposed to behave.

6 The photo on the right is, in fact, an idea of
7 what a more 21st Century learning environment looks like
8 now and will look like in the future. It sends a different
9 signal about how we behave, how we feel. It has different
10 characteristics. It has a different way of being secure,
11 and we're going to talk about how both of these can provide
12 both good learning environments and secure learning
13 environments.

14 At the end of the day, the buildings we create
15 really reflect the world we want to live in, and part of
16 this conversation is about the kind of world our children
17 will live in.

18 With a school building, the influence is even
19 more important than perhaps providing a secure environment
20 in a business environment. We're adults. We're certainly
21 mostly formed. We have our world view by and large, and it
22 changes, but it's not impacted as much.

23 When children are in their school environment
24 from preschool through college, that's a lot of time and a
25 lot of years in an environment. And how does that

1 environment impact them? How does the way they feel impact
2 them? And what's the ripple effect for that environment as
3 they move out into the world? How will that impact society
4 20 or 30 years from now as they become adults, as the
5 environments we've put them in begin to form their world
6 view and their personalities. That's something we're very
7 concerned about. We know it's something you're concerned
8 about, and it's a conversation about what our schools
9 should look like.

10 We know how to design secure buildings. We've
11 been designing secure buildings for millennia. This is
12 probably the prototype of a secure building, but is it a
13 school? Is it the kind of building that we want our
14 children to be in every day? So the real question is, how
15 do we fortify our schools without creating fortresses out
16 of them?

17 This is a modern example now in a different
18 culture, in a different context. This happens to be a
19 school in the Middle East. It sits in a very different
20 kind of situation with a very different social construct.
21 There is a school behind that wall. It's a very secure
22 school. There's a couple of things we could comment on.
23 One is, it doesn't really say, welcome. It doesn't really
24 say, we're a school. It keeps people out, but actually
25 we've talked to some first responders about this, and they

1 have no idea what's going on inside. Not only does it keep
2 people out, but if there's something happening inside, it
3 keeps the help away, and it also keeps information from
4 flowing.

5 There are other ways to go. We can make
6 welcoming and open schools that are secure that have single
7 points of entry that say, I'm a school, that say, you're
8 welcome here, but can, in fact, in a crisis be closed down
9 very quickly and can create an atmosphere of safety.

10 Excuse me. 21st Century learning is not about
11 closed rooms and cells and doors. It's about openness and
12 windows and classrooms that spill out into the hallway and
13 learning that flows seamlessly from formal to informal
14 settings. It's about buildings like this one that we're
15 showing where students gather outside of rooms that have
16 teachers that look out of windows, that have windows out to
17 hallways that begin to allow for the serendipitous
18 encounter and for students to begin to preview and
19 understand learning in a way that's different from the
20 lecture and recitation method of the 20th Century, more
21 project hands-on, project-based learning of the 21st
22 Century.

23 We need to think about outdoor environments. How
24 do we secure children when they're outside? It's not about
25 just being inside. Learning happens everywhere. Learning

1 happens on the playground. Learning happens in parks.
2 Learning happens on the playfield. There are many, many
3 hazards we need to think about outside of the school. How
4 do we shelter them? How do we support them outside of the
5 building?

6 So really what we're talking about is something
7 we've called the educational ecosystem. It's about
8 buildings for sure, but it's also about the people in those
9 buildings. It's also about the technology that can support
10 our need for safety and security. We need to really expand
11 the conversation to include all of these elements.

12 And in all of these the key component of a safe
13 and secure school is this idea of situational awareness.
14 Can our buildings and can the people and can the technology
15 in this ecosystem help us better understand what's going
16 on? How do we assess the conditions that we're in? How do
17 we know what's around the corner, and if something happens,
18 can we delay it? Can we buy those two or three minutes it
19 takes for a first responder to arrive? On average in
20 Connecticut, first responders are on scene in two to three
21 minutes. In a rural area, it may be five. In a city, it
22 may be two. That's not a lot of time that our environment
23 needs to delay a threat, and we can show you examples today
24 of how we can do that. The threat can be delayed by seeing
25 it happening ahead of time or simply by slowing the

1 aggressor down.

2 And then finally, how can we protect those at
3 risk? And there are multiple strategies. Our buildings
4 can help protect those at risk by providing secure places
5 for people to shelter in place. It can also help to
6 protect those at risk by providing the safe and quick
7 escape route. We've been doing this for years in fire
8 safety. We always have multiple routes out of a building.
9 There's no reason not to apply those same principles to
10 thinking about other threats in the school. Are there ways
11 to quickly and easily move away from the threat to either a
12 secure environment or off-sight under the direction and
13 control of first responders?

14 We can't prepare for what we can't see. We've
15 had several discussions with responders in preparation of
16 this presentation and certainly as we design our schools,
17 and there are many things about situational awareness, and
18 most of it is about knowing what's going on. It's about
19 previewing what's happening so that you know about it as
20 soon as possible. It's about delaying the threat, as we
21 talked about, from having any impact on the occupants of
22 the building so that they can move away. If something's
23 happening, it's when the first responders arrive on the
24 scene. Can the building help them understand what's going
25 on? Can they understand the event in progress? Can they

1 see with either their own eyes our technology in the
2 building, and then can they be informed, and can they
3 expedite their response? And the built environment can
4 assist in all of these through both the people, the
5 technology and the physical building itself.

6 One of the things we can do is to help first
7 responders. We certainly are recommending and will
8 recommend that we partner with them in the design of school
9 buildings. We'll have more specific recommendations. All
10 the first responders need to understand our site and school
11 buildings. Certainly, the fire departments typically do.
12 Police Departments it seems to be catch as catch can. And
13 it's not just about understanding the physical plant. It's
14 understanding where the kids are, what the schedule is, who
15 should be in the building, the hours of operation.

16 There's a value of having multiple entry points
17 to the school that are, in fact, known in advance to the
18 first responders in the school district and are part of the
19 operational planning. All of these are things that can be
20 planned in advance with design professionals, with school
21 districts, with first responders.

22 If we start with people, staff, educators,
23 support staff in the building, they become really the first
24 line of defense. If something looks out of place, if our
25 buildings are designed so that they're -- people understand

1 when something looks abhorrent and behavior is abhorrent,
2 that will help to give us the preview that we need.

3 Parents. Parents know what goes on in the town,
4 in the community. Parents are a good source of
5 information. Parents know what should be happening in
6 their school, and parents will know when something is out
7 of line.

8 But if you really want to understand what's going
9 on in a building, it's the students. The kids know what's
10 happening. They share it on the social network. They
11 share it on their cell phones. They share it with each
12 other. The question is, can they share it with adults in a
13 safe and productive way, in a safe way. So leveraging the
14 students and the students' intelligence gathering about
15 their own community and their own school is an important
16 component of this ecosystem.

17 Technology is certainly available. Technology is
18 used. Technology often becomes a forensic tool as opposed
19 to a preventative tool. It can extend the eyes and ears of
20 the school personnel, of first responders, but very often
21 it becomes a way to figure out after the fact what
22 happened.

23 Voice communication is becoming increasingly
24 important. We all remember growing up in schools with the
25 intercom, with the phone in the classroom. Those days are

1 long gone. We have much more robust communications. One
2 of the things we need to do in our school buildings is make
3 sure that not only to radios work for school personnel and
4 first responders, they need to be tested. They need to
5 understand they work. We need cell coverage. Many schools
6 as part of their educational environments are going to a
7 concept called bring your own device. Students bring a
8 tablet, a smart phone to school, and they're allowed to use
9 it as part of their educational environment. They look
10 things up. They engage in activities in the classroom.

11 One of the things that I've heard from many
12 chiefs of police as we've talked to them is that that's
13 also where they're going to get a lot of their information
14 because if something goes wrong, the kids are going to pull
15 out their cell phones whether it's against school policy or
16 not, and they're going to start making phone calls to their
17 parents, to 911, to their friends. So we want to make sure
18 that we have cell coverage in the schools because while it
19 becomes an important part of the educational environment,
20 it also becomes a critical component to both responding to
21 and mitigating any hazard that's happening in the building.

22 And then lastly on the technology side is this
23 idea of a converged network. What we mean by that is as
24 technology becomes increasingly sophisticated in our school
25 buildings, we can tie the network, the communications to

1 the first responder network. There's really no reason that
2 as someone rolls up to the school they should not be able
3 to patch in to the video cameras in the building and have
4 complete and utter control of the building from their
5 cruiser. If you watched the Superbowl, you saw a
6 commercial where a dog got the heat turned on remotely by
7 his owner from his cell phone. We have the technology now.
8 We can put it in our homes. There's no reason we can't
9 begin to think about this technology in our schools where
10 we begin to allow first responders and other personnel to
11 really assess the situation using the tools we have and
12 being able to see it on your smart phone, on your tablet,
13 to control the building from an access point other than the
14 main entrance that's preset and predetermined, but the
15 technology solution is there to help us respond quickly and
16 effectively to a crisis.

17 And then the last component and the one that
18 we're going to spend the rest of our presentation on is, of
19 course, the thing that we spend most of our time on as
20 architects, which is the physical environment. And just to
21 reiterate, the physical environment is not just the school
22 building. We have many strategies that involve the school
23 building, but it is also the playground. It's the play
24 fields. It's the parking area. It's the drop-off area,
25 and by extension, it's where the children are picked up by

1 the school bus. It's the walking routes to school. It's
2 the safe routes that they have to get to their school
3 campus. It's a very broad topic and a lot of areas that we
4 can look at, but it is, in fact, a large component of what
5 we can do to make our schools safer.

6 With that, I would like to turn the microphone
7 and the podium over to Richard Munday, who is going to go
8 through a variety of very specific and thoughtful
9 recommendations about how we can make our physical
10 environment safer, more secure and better for learning.
11 Thank you.

12 MR. MUNDAY: Thank you. My name is Richard
13 Munday. I'm an architect and principal of Newman
14 Architects. We're a firm that has been designing for
15 learning for over 40 years. I, myself, have been engaged
16 in the design of schools since the mid-1990s and have
17 worked almost entirely on that type of school.

18 I was, in fact, meeting with a principal at the
19 -- on the day and at the time that the news first came out
20 about the Sandy Hook killings, and it was of course a very,
21 very sobering moment in that principal's office, and it has
22 been a sobering time for all of us on the design side of
23 the design and construction process moving forward and
24 considering the impacts of our considerations and decisions
25 on this very important question.

1 As Mr. LaPosta stated, I would like to go through
2 some examples that are illustrative of the principles that
3 relate to safety in schools. Firstly, however, it's
4 important to note that schools are places that serve the
5 whole community and not -- they're not merely places of
6 education. They are much, much more. They are places that
7 are part of the education of all of us. They are places
8 where we develop social relationships, where we engage in
9 cultural activities. They affect and touch us all.

10 Moreover, schools are very different in different
11 places. A school in an environment that is rural or ex-
12 urban is not like a school that is in a more built up or
13 urban situation. Nevertheless, the same principles apply.
14 The same expectations of schools apply wherever they are,
15 and this principle is illustrative of the fact that our
16 communities are not the same. They have different -- with
17 different physical environments come different
18 socioeconomic circumstances and cultural differences, but
19 all are centers of community and all require that their
20 designs be developed in consultation with each community.
21 And the conditions that make each of those communities
22 different in small ways will result in schools that are
23 each different in their own ways.

24 Planning begins with the site of the school.
25 This is a typical suburban site and school where the school

1 site itself is separated by woods from neighbors. There
2 are attributes of that site that are very germane to the
3 question of safety. Firstly, the perimeter. The more
4 control we have over the perimeter of a site, the more time
5 may be available to us to respond to a threat before there
6 are any impacts as a result of that threat. So the circle
7 shows the front gate or entrance to a school. Limiting
8 points of access to a school are very important in terms of
9 developing control and the ability to analyze what is
10 occurring at the point of entry.

11 This shows three locations at a site that are
12 also important at the front of a school. The parent drop
13 off, the bus drop-off and the parking area. In the design
14 of the front of schools, we look for regularity and safety
15 in the process where people understand how to behave in a
16 space. They develop familiarity with that, and in that
17 process begin to recognize when something is not happening
18 as it should. If, for example, there is a car in a bus
19 drop off or if there is a truck at a parent drop off when
20 parents are not dropping off their children, or located in
21 a fire lane. These are instances that can alert us to the
22 potential threat before they occur where such patterns do
23 not exist -- we are not as aware of deviations from the
24 norm.

25 The front entry. Having a clear point of entry

1 to the school at the front, an open plaza is both welcoming
2 for people coming to the school for whether they're
3 students or members of the community, but that place is
4 also a buffer on the site separating the front door from
5 vehicular traffic, also creating a place that is visible, a
6 location for bollards and lighting to protect the front
7 door.

8 This is a diagram that shows the need to have
9 visible control of the front yard of the school from the
10 office with a wide-angle view from one end to the other.
11 This designates the desirability of creating very clear
12 precincts around the school building itself as a buffer to
13 provide places of protection in the event of a threat.

14 Focusing now on the school building itself, these
15 dots indicate points of access for emergency response, the
16 doors needed for fire access and to gain access to the
17 outdoors for play and sport are also important points of
18 access for responders so that they can enter in as many
19 locations as possible and from as many sides as possible.

20 Inside the front door. Many incidents occur
21 because no one is there to notice them. So having staff at
22 the front door and creating entrances that are populated or
23 that are designed as places of congregation send a signal
24 to potential intruders that they will be observed. The
25 diagram on the right shows the difference between the entry

1 into a school where there is no one, and that on the left
2 which shows how much more welcoming on one hand, but also
3 how much more intimidating it can be for those who should
4 not be there.

5 Eyes on the street is a very well-known
6 neighborhood watch principle. Clustering activities with
7 windows near entrances to a school send a message that
8 people are watching. And as we can see also here at this
9 entrance bollards that provide protection to the front door
10 from vehicles in the drop-off zone and also the light
11 fixtures and even ballards provide places to sit. So even
12 though the space is protected, it is also a place that is
13 amenable to social life.

14 A welcoming front door promotes safety. In this
15 plan, the administration office is at the front door where
16 it is accessible for people coming in from outside the
17 school, but also because administrators can watch the main
18 entry, they can also screen access. So if, for example,
19 after the school day has begun, and the doors are locked,
20 people coming -- visitors coming to the school would be
21 required to come through the vestibule and into the
22 administration area for screening before having access to
23 the school. This kind of configuration could stop and has
24 stopped many unwelcomed visitors to schools.

25 In many schools today, students can be anywhere.

1 In such a school where students are learning in a variety
2 of settings and group sizes, maintaining visibility is a
3 key to control for educational purposes, but this also adds
4 to the ability to see potential threats from many
5 locations. The image shows a cafeteria on a lower level
6 and a small break-out space on an upper level with adjacent
7 study and teacher support rooms, all with visual contact of
8 one another.

9 This diagram shows different types of teaching
10 space found in some schools. On the left in color is a
11 node arrangement with classroom sharing a common meeting
12 space, and on the right, a conventional corridor model with
13 no shared teaching space between the two. In the first
14 case, the place of circulation is not empty during class
15 time. It can be in use and visible to all. In the second
16 case, during class time, the corridor is empty and it lacks
17 surveillance. People do not have a sense of contact as
18 they do in the first instance with the world around them.

19 So in this view, the corridor is wide and is used
20 as a learning space, and it is at the center of a classroom
21 cluster, and you can note the windows between this central
22 space and the classrooms that border it, which provide
23 visibility and contact between the spaces and the high
24 sections of petition between the windows that can provide
25 protection as well in the case of a threat.

1 This is a different plan type that creates
2 connections between classrooms and the circulation space
3 adjacent to them and also to the outdoor spaces. So the
4 corridors can be seen both from inside and outside the
5 school. The other diagram on the right shows a corridor
6 between rooms that is concealed from view, both from within
7 classrooms and from outside. So it's the ability to see
8 between spaces that helps people to see and to understand
9 what is happening in their larger physical environment.
10 And so to make decisions that are based on knowing rather
11 than on guessing, and I believe we are all aware from the
12 documentation that exists that in situations of stress, the
13 inability of people to know what is happening elsewhere in
14 their environment can be extremely prejudicial.

15 This is a three-dimensional drawing that shows
16 how open vertical spaces in schools can also improve visual
17 connections and better enable people to read and respond to
18 their environment.

19 Here are two other examples. On the left is a
20 corridor where an administrator's office is located on a
21 corner and providing eyes on the street and greater safety
22 for students within the school, and is yet another
23 deterrent to threat, again, where very often threats are
24 caused by people who have familiarity with the spaces that
25 they are in. Knowing that an interior school environment

1 has locations such as this where whatever happens can be
2 seen we believe is fundamental to improving the safety
3 within those spaces.

4 Then on the right, a classroom interior, which
5 shows the view to the corridor for environmental awareness
6 and the wall, which is a space for learning, for video
7 projection, for student work and also protection.

8 Increasingly, schools are being designs as groups
9 of smaller building units connected by links. This
10 reflects the principle that students often learn better in
11 smaller groups and in smaller environments that they can
12 more readily identify with, but these groups of small
13 building forms can be safer, and they are more easily
14 controlled than buildings that are monolithic such as in
15 the diagram on the right. And this is a view of a school
16 that is made up of a group of smaller parts with connecting
17 links.

18 Now, this floor plan shows how the building parts
19 can be grouped together into learning communities with
20 links that provide visual connection with the outdoors and
21 permit the parts to be individually controlled. This then
22 is an enlargement of one part of the previous plan, and it
23 shows a self-contained small learning community with a
24 cluster of multi-disciplinary classrooms that can serve a
25 small group of students with its own point of entry.

1 This single point of entry can offer more safety
2 for students than a similar number of classroom in a
3 conventional school design with a common corridor. So if
4 there is a threat, a small learning community can be
5 separated from the rest of the school, much better for the
6 occupants and for responders. And within these small
7 learning communities, there are clear and defined limited
8 lines of sight so that each community can be more easily
9 evaluated and cleared in an emergency.

10 The classroom itself can become a safer place.
11 This is a diagram that shows two classroom models. On the
12 left, the L-shaped classroom, which differs from the
13 conventional classroom plan on the right by creating
14 multiple learning zones within the space to enable more
15 personalized learning, which is a goal of many educators.
16 And then on the right is the traditional, conventional
17 classroom where there is one group, one focus, one task and
18 one point of view.

19 This is a model of such an L-shaped classroom
20 showing multiple learning zones. The arrow shows how the
21 L-shape can provide a pocket of space within the classroom
22 for students and their teachers to cluster in the event of
23 a threat providing a view from the door of an empty room.

24 So there are some very simple ways of modifying
25 classroom design to both improve the quality and range of

1 the teaching methods that can be applied, but also provide
2 potentially more safety -- greater safety in the event of a
3 threat.

4 So there's no one way to create greater safety in
5 schools, but we have an enormous number of tools and
6 adjustments in the physical environment that we can very
7 readily adopt to provide safety while also creating more
8 enhanced educational settings for students and for, indeed,
9 the whole community.

10 I'll now turn it over to Mr. Gollenberg who will
11 look at some of the systems that are available to support
12 this model.

13 MR. GOLLENBERG: Good morning. My name is Glenn
14 Gollenberg. I am a principal at the S/L/A/M Collaborative.
15 I have been practicing school design in Connecticut for the
16 last 25 years, and you know, as an architect, as a
17 representative of the profession, I believe that what we do
18 in the design process for schools really makes a
19 difference, and it matters to both how teachers teach and
20 how students will learn in the schools and in the schools
21 of the future.

22 If we look at mission statements of many of the
23 schools where we are practicing our profession, they are
24 often containing the words about creating a safe
25 collaborative environment for students to learn and learn

1 to be productive in the 21st global economy, and the
2 technology that we implement within these schools, the
3 materials that we implement within these schools, are a
4 significant component of that process and the design
5 process, and I'm going to talk just for, really just a few
6 minutes about how we can address the use of those
7 materials.

8 Really when you look at walls, doors and windows,
9 you don't think of those as very exciting components of a
10 construction project of a school, but really, it can
11 comprise 10 to 20 percent of the budget of a school
12 project, and because of that it really offers us the
13 opportunity to delve into where we might enhance and
14 contain -- excuse me. I lost my train of thought there.
15 Where it will really enhance the ability of educators to
16 secure a facility.

17 Whether a community is doing two schools in a
18 decade or one school every year often has a significant
19 impact on how they look at their schools as a whole. We
20 have some sample guidelines within some of the school
21 districts that offer us the opportunity to look at how
22 others are actually already addressing an advancement of
23 the review process for security within the schools.

24 This is really expounding upon the educational
25 specification process that has already been established.

1 These communities have added information about verifying
2 access systems into schools to providing intrusion
3 protection to providing video surveillance, and most
4 importantly, they have incorporated within their process a
5 design review by which a project will be reviewed over the
6 various stages of development.

7 Any time we're looking at the materials that are
8 going into a project, and there are a vast number of
9 options to choose from, we're always looking at these four
10 main issues: How a product is going to perform; how is it
11 going to be maintained by the maintenance staff; what is
12 its long-term durability within the school; is it a
13 sustainable product; is it one that is going to be cost-
14 effective over the -- not just the first cost, but the life
15 cost of the building.

16 When you look at the fact that there are over,
17 well, about 1,200 existing public and private schools
18 within the State of Connecticut, you recognize the scope of
19 what's already in place that has to be dealt with, and when
20 we think about the fact that the state approves -- well,
21 look at 2013 as an example, 27 facility projects totaling
22 about \$510 million. If you do the math, it would
23 potentially take a long time to address all of these
24 schools. So one of the things that we want to be able to
25 talk about in our recommendations is how we can possibly

1 address this particular issue.

2 All right. So starting with door assemblies is
3 really talking about the arrival process to the school. As
4 my colleague mentioned, you know, it really is before you
5 get to the door. It has to do with controlling access
6 point. We talked about the plaza and providing the
7 materials that will withstand intrusion, whether it is the
8 bollards or the doors and walls themselves. We can
9 certainly design and address these issues starting from the
10 drop-off point at the street.

11 You cannot probably see, nor do you necessarily
12 need to see the intrusion detection devices that are
13 mounted on the walls that are providing someone, if they
14 are being monitored with a location of -- a central
15 location that can access viewpoints around the building
16 addressing all the entry points that are required by code
17 into the building.

18 The door assemblies themselves. This is a pretty
19 exciting document, I think. There's a highly-technical
20 aspect to all the products that go into a school. There
21 are design guidelines that can address the level of
22 security for doors, for certainly whether it's just a
23 residential grade to a detention grade. We can usually be
24 certain that what we're going to be putting into our
25 schools, just because of the abuse factor that there is, is

1 going to be of a quality that will generally withstand
2 intrusion. The hardware, the monitoring of the doors can
3 all be added to those as a methodology of controlling entry
4 points. When we do that, we are often adding costs to the
5 project, but it is -- the technology is there to allow
6 somebody that's sitting in a control panel when any
7 particular door into a school has been opened, left opened
8 or has inappropriately been accessed.

9 The wall systems are -- wall assemblies, much
10 like the doors themselves, also come with a high level of
11 standardization to them. They also have to meet code
12 requirements for things other than intrusion. They have to
13 be often fire barriers. They have to be acoustic barriers,
14 and each of those components go into the decision-making
15 process that has to be achieved when you look at what the
16 wall assembly is going to be in a corridor or between
17 classrooms.

18 There are acoustic requirements that are
19 necessary between classrooms because children obviously
20 learn better when they can hear better. There are acoustic
21 requirements between classrooms and corridors themselves.
22 Not always is the most secure material the best material
23 for use. A masonry -- a 6-inch masonry block wall one
24 would think is a really good deterrent and very
25 maintainable, but it will not necessarily provide the

1 acoustic barrier that's necessary between a classroom and a
2 corridor. Likewise, this wall assembly that you see here
3 has dry wall on the outside of it, and it has a wire mesh
4 inside of that. It may not be the most maintainable and
5 require constant maintenance and the cost associated with
6 that over its life.

7 Likewise, with window glazing, I hope you can see
8 that a little bit. There are a tremendous number of
9 security and performance options with windows, the amount,
10 the type, the orientation, the configuration. A window
11 into a classroom can have a large impact on the energy
12 usage within a school. We can design schools today that
13 practically can be run without the use of artificial light
14 within them during the school day just by paying attention
15 to where we place windows, the window selections, the
16 orientations of the building, and these are all important
17 factors as we make our selections. The use of windows for
18 security has been less of an issue except for perhaps in
19 the urban areas where the first -- locating the windows on
20 the first floor as laminated glass or security glass has
21 been a consideration.

22 When you think about the cost of glazing, the
23 cost of providing the monitoring of the doors in a typical
24 classroom, it's often between 3 and \$4,000 per classroom to
25 do that. When you think about the number of classrooms

1 that we were talking about, 1,200 schools, that would cost
2 over \$4,000,000 just to do one classroom in each school in
3 the State of Connecticut. Looking at it in another way, if
4 you were to take that \$4,000 and be faced with the decision
5 as to whether I'm going to put technology in a classroom
6 for 21st century learning or if I'm going to provide
7 security glass, laminated glass on the outside window,
8 often the decision-making process is we need the technology
9 in the classrooms if we don't have the funding to be able
10 to afford both.

11 And then when it comes to the options and the
12 amount of glass selections to be made, there are levels
13 that can address almost any instance from vandalism
14 through, you know, various weapons. It really comes down
15 to a matter of what is the appropriate amount of
16 protection, the appropriate amount of security, and the
17 cost which it's going to bring to the project.

18 We have a very short video here that sort of
19 exemplifies the process by which someone might have to go
20 through to get into what might be deemed a very secure
21 window. I don't think we want to talk about necessarily
22 what this costs, but it just runs for a minute, and the
23 time clock on the lower right will show you exactly how
24 long this is going to take them to get in. It runs -- and
25 like I said, it runs about a minute.

1 So we have the technology. We have the
2 materials. I think what's important is to recognize that
3 the decision-making process that architects and the
4 building committees go through on each and every project,
5 there has to be some level and some thought given to what
6 is appropriate in each and every instance. So as that
7 wraps up, Randall will --

8 MR. LUTHER: I have the enviable task of
9 following a video tape. I have nothing quite as
10 interesting in my presentation. My name is Randall Luther.
11 I am a principal with Tai Soo Kim Partners Architects. I
12 have been involved in public school education as an
13 architect for over twenty years. I've also served on a
14 board of education, and I have served on many school
15 building committees. So I'm well-aware of the challenges
16 that you all face and that all the districts in the State
17 of Connecticut face as we try to deal with this challenge.

18 My colleagues have given you an overview of some
19 of the many principles that are under the umbrella of
20 school safety and security. So how do we implement them?
21 Well, we believe any action plan to improve school safety
22 and security should be a proscribed process, not a
23 proscribed solution. Every community in Connecticut is
24 different and unique. They each have different first
25 responders, different programs and functions that occur

1 within their schools, and the school sites and building
2 layouts are unique to every school.

3 The first responders vary widely in Connecticut
4 from the resident state trooper with the -- from the
5 volunteer -- from the resident state trooper and their
6 volunteer fire department to our urban communities with
7 their SWAT teams and fully staffed fire departments. With
8 this variation in first responders come differences in
9 capabilities, differences in training, response time,
10 resources, and all these differences have implications on
11 the safety and security measure that we would implement in
12 any particular project.

13 Every school functions very differently. The
14 programming requirements for a high school are very
15 different from those of an elementary school. Schools
16 today are no longer isolated silos of education as they
17 were in the past. They serve many roles in their
18 communities. The school on the top includes a public pool
19 and recreation facilities. The school on the bottom has a
20 public library as a component of its educational program,
21 and every school has some unique characteristic.

22 The layout of every school and every site is
23 unique from sprawling campuses in rural areas to multi-
24 story buildings in urban communities. Each of these
25 requires a different response. And the threats are indeed

1 very different. Inner-city high schools face very
2 different threats than say a early childhood school in a
3 rural area would face. No one predetermined solution can
4 address all the individual circumstances to make a safe and
5 secure school facility.

6 Our suggestion is to create a process that
7 communities can follow that will yield the strategies that
8 are most appropriate for the particular needs of the
9 individual community. There would be two separate tracks,
10 one for new construction and one for existing buildings.
11 New schools in Connecticut begin with an educational
12 specification. It's created by the local district. It's
13 required by the state, and it outlines the components of
14 the new school. The State Department of Education
15 currently requires that ten specific areas be addressed in
16 this educational specification. Safety and security is not
17 one of those areas. We suggest that it needs to be
18 included.

19 Currently, the State Department of Education
20 through the Bureau of School Facilities monitors the school
21 design process to ensure compliance with a variety of
22 legislative initiatives. We suggest that at various
23 milestones in the design of a new school project there be
24 reporting to the Bureau of School Facilities on the school
25 safety and security process being followed. This could

1 begin with submission of the educational specification to
2 the state, which would include the safety and security
3 goals for the project. Once a design team is selected and
4 contract is awarded, there could be a submission to the
5 state from the design professional acknowledging the
6 process that needs to be followed and then a completion of
7 the design documents when the state does their review to
8 ensure compliance. There could be confirmation that,
9 indeed, the process was followed.

10 Such a process would include meetings with the
11 appropriate community stakeholders, and that would include
12 first responders, staff, outside consultants and designated
13 community representatives and obviously the design team.
14 They would meet at times appropriate during the design to
15 make sure that the standards that were established as goals
16 are met and are adjusted as the design develops. And then
17 finally, we would suggest a post-completion commissioning
18 with first responders, design professionals and staff to
19 confirm that the building security and safety measures will
20 function as intended and to make any final adjustments to
21 the school and community response plan for the facility as
22 may be necessary. To a certain extent, this already occurs
23 with local fire departments, but as was mentioned before,
24 it's not typically done with police departments and other
25 first responders. We think this should change.

1 For existing schools we are more constrained in
2 what we can accomplish. First, we suggest that there are
3 periodic reviews of existing facilities that include the
4 first responders. From those reviews there are many
5 responses and actions that can be taken. We've listed a
6 few up here. These are very simple, straightforward, most
7 of which have no cost associated with them, and they're all
8 things that can be done immediately in conjunction with the
9 review with first responders. But of that list probably
10 the most important is the last item on that list, that we
11 need to encourage a dialogue for districts to partner with
12 their first responders.

13 We also suggest that school districts report
14 periodically to the State Department of Education on their
15 safety and security planning. Currently, the state uses
16 the ED050 school facilities survey, which districts file
17 periodically to track various aspects of Connecticut's
18 existing school infrastructure. By adding safety and
19 security evaluation criteria to this form, we believe this
20 would be an ideal vehicle to assess where we are as a state
21 in planning for safety and security in our schools.
22 Perhaps more importantly, it will serve as a prompt to
23 raise awareness and start a dialogue between our schools
24 and their first responders.

25 Lastly, one of the ways that the state

1 demonstrates its commitment to any issue is with its
2 dollars. Currently, there are 16 types of projects that
3 the State Department of Education has determined are
4 important enough to warrant state funding, and those are
5 listed there to the right. If we are to wait until each
6 school in the state is renovated under one of those
7 existing categories, it will be decades before many
8 fundamental safety and security issues will be addressed in
9 some of our schools. Consequently, we suggest that there
10 be added a new category of project, safety and security
11 upgrades. This will provide communities with the resources
12 necessary to address problems that they identify as a
13 result of the process we're suggesting that they follow.
14 These would be smaller, less-costly projects, and could
15 follow an expedited review process, much like what is now
16 done for reroofing projects in the state.

17 And there is precedent for this approach. The
18 Connecticut High-Performance Building Standards mandates a
19 process be followed for all state projects over a certain
20 threshold to ensure that sustainability goals are
21 established and met. Likewise, Connecticut's Tools for
22 Schools Program enlists local communities with training and
23 support from the state to evaluate their schools for indoor
24 air quality and to take corrective action where necessary.
25 Although this program is voluntary, it enjoys a 94 percent

1 participation rate among the state's school districts, and
2 this participation rate is climbing.

3 So to recap, it is our consensus opinion that
4 there is no one predetermined solution or solutions that
5 can address all the unique circumstances to every school
6 and community. Rather, we recommend a process be
7 established that raises awareness and creates a dialogue
8 that will result in safer, more secure schools that do not
9 compromise the mission of schools to be both community
10 resources and to educate our children.

11 With that, I think --

12 MR. CONNELL: At this point, we welcome any
13 questions you may have.

14 CHAIRMAN JACKSON: Thank you very much for your
15 very informative presentation here. I'll start off with
16 our first question before opening it up to my colleagues
17 here.

18 Some very important words were mentioned,
19 standards, codes. In terms of mandating certain
20 activities, codes become a requirement. Would you
21 recommend or encourage any changes to building codes to
22 incorporate these recommendations? The last program you
23 mentioned was a voluntary program even though it does have
24 a lot of support, but it's not mandated. Can you talk
25 about mandating?

1 MR. LUTHER: I mean, I'm at the microphone. So I
2 guess I'll take my first shot. I don't necessarily speak
3 for everyone, but in general, I think that would be very
4 difficult. I mean if you noticed a theme for us, it is
5 that security is such a large and all encompassing issue.
6 It would be very difficult, I believe, to establish
7 specific requirements or specific thresholds or criteria
8 that you could use and then codify in a building code.

9 Again, I think perhaps the building code is not
10 the best vehicle, although I understand, you know, which is
11 why we mentioned the Connecticut High-Performance Building
12 Standards, which are not -- which are legislated by the
13 state and are a requirement for all state buildings over a
14 certain dollar threshold, so they would -- since virtually
15 all public schools receive state funding on construction,
16 something similar could be done, and again it could be a
17 process that's mandated that you need to meet with first
18 responders, that there needs to be an action plan, there
19 has to be an emergency response plan developed, there need
20 to be certain reviews done at certain points, and then
21 there could be a list of criteria that should be
22 considered. And I know you have someone from FEMA speaking
23 afterwards, and they have some documents that list a lot of
24 criteria.

25 So I mean I think that is a strategy that I think

1 would be more effective than trying to require that a
2 certain kind of glass be used on a certain entrance or a
3 certain locking device or a certain, you know, glass
4 protection. Again, I think communities are so different.
5 Their financial resources are so different, all those
6 things that we've mentioned in terms of, you know, glass
7 and doors are very expensive, and you know, we don't -- if
8 you legislate that glass be bullet-proof, the response will
9 be less glass. That's the reality, and I don't know that
10 that's what we want to do.

11 CHAIRMAN JACKSON: Thank you. Anyone? Bernie?

12 COMMISSIONER SULLIVAN: I hear what you're
13 saying. It's difficult to have minimums, but when we deal
14 with schools we're dealing with two potential issues, the
15 enemy within, the potential student, or the enemy without.
16 The enemy without is probably the one more easy to protect
17 against, and if we leave it wide open to just discussion,
18 then we really won't have what probably is the best effort.
19 Because don't you think the professionals should be
20 recommending what's a minimal level, you know, the minimal
21 level may be not to the level we do bulletproof glass, but
22 is there a minimal level about securing entrances? Is
23 there a minimal level of using a cheaper reinforced glass
24 with a wire in it that's not as expensive?

25 We know we're never going to stop these attacks.

1 All we can do is slow them down and allow time for the
2 responders to get there, but if we don't recommend certain
3 professional minimums I think we're doing a disservice
4 because I think the people out there in the school systems
5 are not educated in the world of security, and I think
6 there are minimum things that can be done and I, you know,
7 I throw it back to you. I know we can't do everything. I
8 know dollars are a very big issue in government and we'll
9 never fund all the wishes and hopes that we have, but are
10 there things that maybe don't rise to the high level of
11 expense that could still be done at a minimal level that
12 would help all the -- at least the enemy from without?

13 MR. LUTHER: I mean, the short answer is yes.
14 Establishing what those minimums are and how we evaluate
15 if, you know, is the money better spent on remote locking
16 and video surveillance or is the money better spent on the
17 minimum on bullet-resistant glass at the main entrance?
18 It's a very difficult thing to score and to decide where
19 the priorities lie, and that's why I think a lot has to do
20 with first responders. For example, if I'm in an urban
21 community, and I know I'm going to have a -- police
22 response time is a minute and a half, then if I have to
23 delay somebody at an entrance who is a concern, I only have
24 to worry about a minute and a half.

25 Also if I'm dealing in a high school in an urban

1 situation, they may well have a school resource officer on
2 campus. And so again, their response and how they deal
3 with somebody at the door would be very different than if
4 I'm in a rural community with the resident state trooper
5 who may not be there for five minutes, so there, in that
6 circumstance, protection at that entrance is very
7 important. I might not have somebody for five minutes. So
8 I need to -- so in that case, I would advise a district
9 that you really ought to consider, you know, a bullet-
10 resistant entrance, a sally port situation so that you
11 could keep somebody at bay for an extended period of time.

12 Again, if I have a school resource officer who is
13 waiting in the vestibule with the metal detector, maybe
14 that's not where I want to spend the money. I want to
15 spend it on a camera or something so I can detect somebody
16 further out and get to them before they get to the doors.
17 I mean, there's a lot of issues and a lot of ways to look
18 at it and I think the individual circumstance play into
19 that.

20 MR. CONNELL: From a building code standpoint,
21 Connecticut has adopted the International Building Code,
22 and there's an organization out there which periodically
23 updates that code and updates are done in many cases based
24 on fire safety and issues and events and tragedies that
25 have happened around the country in response to that, and

1 so when something does happen that agency gets together and
2 evaluates what can be done and what is appropriate in terms
3 of making changes to codes, which inherently are
4 interpretive and need to be interpretive based on the
5 individual building in which you are doing a project. It
6 would seem likely that that organization will probably look
7 to begin to incorporate security measures, and that might
8 be a good place to start.

9 One of the issues that design professionals
10 always have is because codes are interpretive, if we do
11 have state legislative mandates it begins to be difficult
12 to apply those in the specific language in each individual
13 school because of the variances of situations, and it also
14 doesn't allow those legislative mandates to be updated
15 periodically as the building codes are updated. So in some
16 cases they can be out of sync with current thinking.

17 So our recommendation would be to take a look at
18 the model codes and understand the direction that they may
19 be taking such that possibly Connecticut could adopt some
20 of those upcoming potential standards.

21 COMMISSIONER CHIVINSKI: There was some different
22 terms thrown around, and I'd like to get some clarification
23 if possible. I'm hearing glass glazing, bullet-proof
24 glass, we saw a nice little video. Could you tell us a
25 little bit about cost and some of the grades that might be

1 available for projects such as these if a particular school
2 let's say, or if all schools wanted to reinforce their
3 entranceways with these types of materials. Thank you.

4 MR. GOLLENBERG: Yes, the number of options for
5 glazing is infinite, and the performance of the glass, as I
6 was saying, has to meet not only energy codes and fire
7 codes often, but there is security issues with it as well,
8 and as you go through the different levels of glazing, each
9 has an incremental cost to them. The higher-performing,
10 and I'm not sure that I can put a number on it except the
11 example of a typical classroom that is providing good,
12 natural light into it is going to cost about \$3,000 a
13 classroom. So you think about a typical classroom that has
14 25 or 30 feet of exterior wall.

15 COMMISSIONER CHIVINSKI: Let's talk entranceways.

16 MR. GOLLENBERG: Okay. So anybody have a cost
17 figure on an entrance? Okay. You know, it could run, you
18 know, \$15,000 or \$20,000 for an entrance would be a number
19 that you could budget for something that has security glass
20 in it and has alarm detection, well, and most schools are
21 going to have video cameras at all their entrances and
22 exits anyway. I think one of the things the building
23 committees are often faced with when looking at their
24 budgets because doors and walls and glass represent such a
25 high percentage of that 10 to 20 percent of your total

1 project cost, those are -- total construction costs --
2 those are often the areas that they're going to look at
3 when they need to save money, you know. So a masonry wall
4 that meets all the fire and acoustic requirements may
5 become a dry wall that's two layers or a security glazing
6 on the first floor of a school in an urban setting will go
7 to a high-performance window and have the benefits of that
8 rather than the vandal resistance because there also
9 carries with it a replacement cost for many of those
10 windows if they get -- if they are damaged. That is an
11 ongoing expense as a mower throws up a rock, and it strikes
12 it and cracks the glass. If it's going to be replaced,
13 it's going to cost a lot of money or it's going to be left
14 as it is and have something applied over it, and then it
15 just doesn't perform as it's supposed to at that point.

16 COMMISSIONER CHIVINSKI: The 15 to 20,000, is
17 that for replacing -- would that be for replacing windows
18 in an existing school or are we talking new construction?

19 MR. GOLLENBERG: That would be for an entrance --
20 probably either replacement or new. That is not a
21 discussion on the windows in the classrooms. That's more
22 to the 3 to \$4,000 number.

23 COMMISSIONER FLAHERTY: I'm just wondering for a
24 full understanding because with all the recommendations and
25 understanding that every project would be different and the

1 needs of very community are different, for an understanding
2 of what happened in Newtown, would it be necessary for a
3 design professional to look at that particular school to
4 have a full understanding of that event and what happened
5 there? Because I know that the criminal investigation is
6 going on, but they might not know about what kind of glass
7 was used and what -- the set up of that particular school.

8 Thanks.

9 MR. LaPOSTA: It's my turn. One of the things is
10 that we certainly have learned from all of the other
11 tragedies that have happened. Whether it would be
12 important for a design professional to do some analysis I
13 think is an open question. We certainly don't know yet the
14 full story of what happened at Sandy Hook. Certainly, if
15 you read the Jefferson County Sheriff's report on
16 Columbine, there's a lot of things in there that actually
17 discuss the physical environment, and some of our
18 recommendations and some of our observations actually were
19 drawn from that. Some of that was ours, as design
20 professionals, and many of my colleagues around the country
21 have done the same.

22 It's our reading that the report of what actually
23 happened, looking at the plans, the drawings, understanding
24 the layout of the building, and some of our thoughts have
25 been drawn from conclusions on that.

1 For instance, at Columbine, there seemed to be
2 great confusion on the part of the first responders as they
3 rolled up. The building layout was not necessarily
4 conducive to understanding it quickly and understanding
5 where people were in the building. There was a very
6 confused situation in the parking lot where there were
7 students -- you know, it's a high school. That's a very
8 different situation than an elementary school. There were
9 students everywhere moving in and out of the building in
10 multiple locations. So you can begin to -- once you get
11 the law enforcement reports, you can begin to draw from
12 that.

13 Certainly years from now once we really do have
14 the full story of what did happen that day, we will be able
15 to look at that I think as design professionals and draw
16 conclusions in terms of the entry points, the locations in
17 the building, the location of the office, the layout of the
18 site. Certainly, we know that he drove up to the front of
19 the school and parked there. That was one of the things
20 that was very obvious from news reports. That leads us to
21 some thoughts about site design and site safety. We know
22 the front doors already were clearly a weak link in that
23 chain, but to what level we need to support those or harden
24 those becomes I think the real question.

25 One of the points on the glazing of the glass,

1 and we do apologize for our jargon, glass and glazing
2 really are the same thing. We fall into that trap
3 sometimes as professionals. Currently, many schools along
4 the shoreline in Connecticut already have reinforced glass
5 in them because they're in hurricane zones. The image that
6 we showed you of the shattered window in our presentation,
7 it was actually a test for hurricane glass. That's a 2x4
8 thrown against the window at 90 miles an hour. If that's
9 not penetrating, very little else is going to get through.

10 So some of our schools already have this as part
11 of their budget. It is more expensive, but it is code-
12 mandated in high wind zones, others don't. So I offer that
13 as an example that some of this is already happening in
14 response to other code-driven items. So it may not be
15 always as far -- as big a reach as you may think in terms
16 of upgrading glass and glazing on building projects.

17 COMMISSIONER SCHONFELD: Well, first off, I
18 appreciate the presentations. It describes a thoughtful
19 approach to how one can design a built environment that is
20 both conducive to learning and safe. The issue that I find
21 when responding to schools when there have been events such
22 as this is they want to very quickly now retrofit their
23 school to be safer. And those kind of thoughtful
24 conversations about what are modifications that might
25 create an environment that will ultimately be conducive to

1 learning and feel safe to students and also be safe are
2 often not as well-informed by professional opinion, and are
3 often driven in large part by understandable community
4 sentiment to do something now to protect the children.

5 And so I'd like us to -- and having been in some
6 of these schools after shootings, you will have some
7 families feel very strongly that their children, often it
8 is them as well, feel safer when there is a large sense of
9 security presence through certain physical changes, and
10 other students which then feel very unsafe in schools with
11 lots of metal detectors and restricted entry, et cetera.

12 So what are your recommendations, or maybe this
13 will come in another presentation, about how to do this on
14 a shorter scale with a more restricted budget that creates
15 a process that will be -- something we'll be happy with
16 five years later?

17 MR. LaPOSTA: We had made an attempt at that in
18 this exhibit, and we can certainly talk about these a
19 little bit. Our first attempt was to think about immediate
20 actions, understanding that sentiment that you've
21 expressed, and were there things that could be done at
22 little or no cost in the building. And these were some of
23 the things that we came up, which had to do with walking
24 around the building and understanding -- we find, as design
25 professionals, one of the most difficult things to do is

1 enforce traffic and parking and control people who come on
2 the site. Everyone seems to need to park in a fire lane.
3 Everyone seems to need to drive right up to the front door.
4 There are things you can begin to do I think outside the
5 building that are visible in terms of a visible presence of
6 restricting, painting lines, putting out cones, putting in
7 barriers. We all know that planters tend to spring up, big
8 concrete planters spring up after horrific events very
9 often, but they provide a very real sense of security, and
10 they're not necessarily that long lasting.

11 So if we can enforce traffic and parking rules,
12 look at the building for site lines and obstructions. That
13 is in fact something we can do very quickly. Very often
14 schools get -- things accumulate over time. It's like any
15 of us in our houses. Things accumulate, and you don't even
16 notice it. So it's going back either with a design
17 professional or simple district staff and making sure that
18 all the site lines are open. Can the office really see
19 what's going on in the building, whether it's the
20 installation of a camera or simply opening up a window that
21 may have been closed or blocked with furniture. There are
22 -- lots of things get cluttered in classrooms and schools.

23 So these are very simple things you can do,
24 looking at pathways. Certainly, door security and keying
25 is a big thing that can make a lot of difference, blinds so

1 that in a lock-down situation you can open and close them.
2 We've had differing conversations with first responders on
3 this. Very often you want to be able to shut down from the
4 inside, but I've talked to many chiefs of police who want
5 to be able to see from the outside in in terms of what's
6 happening. So you can certainly review those. Most
7 schools tend to have pretty bad blinds and shades, and you
8 can begin to do that.

9 Communication systems and communicating this with
10 parents that these are things you're doing. If you do
11 this, and you don't tell anyone, then probably you're not
12 enhancing the safety and security feeling of the building,
13 but if you go through a protocol of looking at all these
14 items and engaging the parents and the community, we think
15 that can go a long way.

16 The one that's really important, and I'm sure
17 every district began doing this immediately, is the
18 reinforced building policies and procedures. We've talked
19 a lot about technology, about doorways, about many building
20 systems. The most elaborate and secure building can be
21 undone by one student who props a door open with a rock
22 from the playground and a teacher who doesn't observe it.
23 I mean, it really is, you know, and it happens in every
24 school in every district everywhere. That's why it's so
25 important to heighten everyone's awareness, including the

1 students about why doors need to be closed behind them and
2 why things need to be locked. It would seem to us -- it
3 would seem to me, that that would be some things you can
4 begin to do right away would be to begin to make people
5 aware that even simple actions have a big impact on the
6 safety and security of their community.

7 Beyond that, I'm afraid as you get into other
8 more physical changes, you get into costs. If you want to
9 move an office from one location to another, it's possible
10 there will be some costs. It may be when you look at a
11 building, if it's in an older school where the main office
12 is down a hallway somewhere and isn't at the front door,
13 maybe there's an ability to swap a classroom that's at the
14 front door, turn that into the office and find that
15 classroom somewhere else. That will not be free, but it
16 may not be as expensive as new construction. So there may
17 be some things you can do along those lines. Again, every
18 -- I know it sounds kind of redundant, but every school is
19 so different, you would have to look at that particular
20 situation.

21 COMMISSIONER SCHONFELD: Is it possible to have
22 -- I understand that it's important to partner with
23 responders, but not all responders in every community will
24 have the same breadth of knowledge and experience in this.
25 So if there were some way to put together some guidelines

1 about how to consider this in a thoughtful way, but in an
2 expeditious way because, at least in my experience in this,
3 sometimes the decisions are made very quickly, often not
4 based on the same knowledge base and often based on, you
5 know, people's concerns and worries, which are quite
6 legitimate and understandable, but if there were some
7 document or some guidance. I'm not necessarily saying that
8 they have to be mandated or code, but at least some
9 suggestions about what are reasonable steps to take that
10 will improve school security and safety but still preserve
11 an environment that's conducive to learning.

12 I think it would be very helpful as all of the
13 communities struggle to try and figure out how to do
14 something quickly that's also responsive to the need.

15 COMMISSIONER SCHWARTZ: It would seem that most
16 of your presentation appears to be geared to preventing or
17 responding to the armed intruder attempting to enter the
18 school from the outside. I'm thinking about the situation
19 in which the student or an employee or someone else may
20 enter the school armed but unobtrusively, and I'm wondering
21 about architectural responses to that. The only one that
22 comes to my mind is metal detection, and I'm wondering if
23 there are developments in metal detection that would allow
24 it to be implemented both economically and unobtrusively.

25 UNIDENTIFIED SPEAKER: Do you want to take it?

1 MR. GOLLENBREG: Well, I'll start. Some
2 districts actually do have a policy that is part of their
3 purchases at the end of a project that includes metal
4 detecting devices that are meant to be placed at the main
5 entrance, but they're generally not placed in the main
6 entrances when the project is opened because it has sent
7 the wrong message, they feel, to the students, that is that
8 this is not a safe environment. They are brought out of
9 storage on occasion, and they are used on a, you know, just
10 as a where are we at a point in time in terms of what is
11 trying to come in the door. And to that extent it offers
12 an option by periodic review with measuring the amount of
13 weapons or -- not weapons, let's hope not anyway, but the
14 possibility of threatening devices of any nature coming in
15 the front door, and if students don't know when it's going
16 to happen, it can be a deterrent.

17 COMMISSIONER SCHWARTZ: So I presume there's no
18 way to build metal detection into door frames currently
19 that would be unobtrusive and not send that message?

20 MR. GOLLENBERG: We have metal detection devices
21 not just for schools or books leaving libraries, also for,
22 you know, within hospitals in MRIs they do have metal
23 detection to prevent various metals from entering any of
24 those locations. They are not, I don't think, a standard
25 that we're aware of at this point that looks like a door

1 frame and acts like a metal detection device.

2 COMMISSIONER O'CONNOR: I'm sorry. When it goes
3 off, you still have to have someone physically there who is
4 appropriately armed to deal with it.

5 MR. GOLLENBERG: Yes, and the level of detection
6 has to be determined.

7 COMMISSIONER O'CONNOR: Right, right.

8 MR. LaPOSTA: Yeah, I mean, I do know that our
9 office looked into this about two years ago for a large
10 high school project because that was the exact request.
11 Could we just have a series of doors when the students came
12 off the bus they walked through, and you know, something
13 would go off somewhere, and they wouldn't see it, and we --
14 I know two years ago we were unable to find something, and
15 the weak link ultimately was the backpack, the bookbags.
16 There was no device that would adequately and be sensitive
17 enough to find everything that was in everything. So you
18 still had long lines of students waiting to go through.
19 You still needed a desk for some kind of adult or officer
20 to be there to, you know, to deal with any situation or
21 even just to keep order as the students were moving
22 through.

23 So I can't say definitely that it's not out
24 there, but I'm not sure that any of us have come across
25 that yet or certainly not in an affordable way. I suspect

1 if that was available, it would be at airports, and it's
2 not yet.

3 MR. LUTHER: The other concern is the false
4 positive. If they don't know it's a metal detector, and if
5 the idea is that it be indiscrete, then everyone comes
6 through with their keys, their cell phones, all those
7 devices which every student carries. So every student who
8 goes through will set off the detector, and it will quickly
9 become unworkable. I mean, unless they know it's there,
10 and they can take out their keys and change then, you know,
11 it's not really useful. And so it's a very difficult
12 problem to resolve.

13 COMMISSIONER FORRESTER: Mr. LaPosta, your
14 presentation was interesting to me because you were talking
15 about the knowing what's going on as, you know, one of the
16 key factors of safety in the school, and someone else later
17 on mentioned the Tools for Schools as part of the EPA,
18 environmental awareness and safety.

19 When listening to this, it feels like certainly
20 there's architectural safety issues, but there's also a
21 culture of safety that needs to be developed, and I was
22 wondering if there were ways as we're teaching our children
23 to recycle and to be environmentally friendly, turn the
24 lights off, all of those things. Has there been any models
25 across the nation that are talking about safety from that

1 model of environmental change? And would that be something
2 that would be recommended both from a hard design, which we
3 were talking about the Tools for Schools, I guess, as
4 voluntarily 99 percent of the schools have volunteered,
5 regions have volunteered to do that. Would that be
6 something that would be a good model for us to be thinking
7 about?

8 MR. LaPOSTA: I'm not aware of a voluntary
9 program like that. That doesn't mean that one doesn't
10 exist, and it certainly seems as though it would be a wise
11 idea. I think culture is a key component. That's why we
12 were coming up with this notion of this ecosystem where all
13 these pieces and parts work together much like a natural
14 ecosystem. It is the culture of the building, and the
15 culture impacts the building, and the building impacts the
16 culture. And I think if there were a program available to
17 make students aware of what a safe environment feels like,
18 of the things they need to do back to the rock from the
19 playground. That's a very simple example of a culture
20 where if a student saw that, they would realize that that
21 was a threat to them and their community, and they would
22 instantly, hopefully, deal with that and kick the rock back
23 out into the playground.

24 MR. LUTHER: I think the Tools for Schools is an
25 excellent model because it goes to your question earlier

1 about what about the districts and the communities that
2 don't have the knowledge base to make informed decisions.
3 The Tools for Schools programs, the state provides the
4 training and the information and then enlists the local
5 community with the training and support they get from the
6 state to go in and look at air quality. And they involve
7 the students, the teachers, facilities people. I mean,
8 it's a very comprehensive program. It's very well thought
9 out. Clearly, it's successful as the participation is
10 almost universal in the state.

11 And the resources are available. We do have the
12 experts that could set up a program I would think in short
13 order to at least identify the principles that are
14 involved, some of which we've talked about in safe school
15 design and then reach out to the districts armed with that
16 information. Then they can have those conversations with
17 their design professionals.

18 And I will say that most architects who work in
19 public schools, you know, over the course of many years,
20 they bring a certain amount of expertise through the
21 conversations they've had with first responders. And so
22 just by prompting the questions for someone who may not
23 have done a school before police department or police chief
24 is frequently asking the questions, well, how will you
25 respond, and do you need access? Is it better to keep

1 somebody out? Or is it better to allow you to get access
2 in? Then they start to think through it and through those
3 conversations, based on what they know with their staff and
4 their capabilities, solutions frequently come out.

5 MR. LaPOSTA: One of the things that I would also
6 -- it occurred to me as you were asking your question, the
7 culture in a school that is a good educational environment
8 that has a good learning culture, typically, I think would
9 carry over into a good culture for security because what
10 I've observed is at the schools we've worked with where the
11 learning is evident and the caring for each other as a
12 community is evident are also schools that feel safe
13 because those are schools where students and adults have
14 good relationships with each other, where the community
15 feels good about sharing information both good and bad and
16 where people take responsibility for both their actions and
17 the actions of their friends and colleagues in the
18 building.

19 So I think there's a natural crossover between
20 the things we've been talking about where not only can
21 buildings be good for learning, but I think the culture
22 that's good for learning is also a culture that's good for
23 safety and security.

24 COMMISSIONER GRIFFITH: I had one simple question
25 to try to see if I understand this. The base rate of this

1 phenomenon is extremely low. Assume I'm the principal of a
2 school. I have tremendous struggles with managing my
3 budget. It would be far more interesting, I think, for me
4 to be competitive in terms of educational activities and so
5 on in comparison to my colleagues to put any money I have
6 into promoting all kinds of human activities. I could give
7 money to my track team. I could send them on tours to
8 France or something in the summer. There are all kinds of
9 things I could do with any little money I get. Why would I
10 -- what sense would it make for me to be spending money on
11 something where the base rate is incredibly low; nobody can
12 tell me anything about when the next one is going to
13 happen, which has to do obviously with the predictability,
14 but even in a political sense, it doesn't make a lot of
15 sense to me because it's not a frequent phenomenon.

16 So tell me how I really manage this in terms of
17 responding to it because I can't really get my arms how to
18 think about this in a sensible way except I understand the
19 emotional pressure, and I'm not minimizing that. I
20 understand the emotional pressure, the psychological
21 pressure. Something's happened, and we've got to do
22 something about it. But that doesn't help me manage my
23 school, my theoretical school.

24 So tell me how you experts are thinking about
25 that. Because even if you put in the fancy glasses you're

1 talking about, you know very well if somebody hits it with
2 a baseball bat, I can't repair it next year. It's just too
3 expensive. It's not high on my list. Why would I do that?
4 So tell me how I think about it as a school principal
5 because I still don't get it yet.

6 MR. MUNDAY: I might have to squeeze in here.
7 I'm sorry.

8 The way that we have been seeing this question
9 has been in terms of an integrated set of ideas related to
10 creating an environment that supports better educational
11 outcomes. A school that is safer is a school where people
12 feel safer, and that sensibility, we believe, will support
13 better educational outcomes.

14 The cultural aspect of this situation, which
15 involves preparedness with understanding with children
16 understanding the significance of a brick left in a door,
17 those don't cost money, but the parts of a school design
18 that in physical terms support safety support a wealth of
19 other good outcomes, and so in terms of looking at the
20 return on that kind of investment, it's a return that is
21 found in many, many areas.

22 COMMISSIONER GRIFFITH: Well, let me make a
23 follow up comment to further try and share my -- the way in
24 which I view this in such a complex manner. I happen to
25 know a number of schools which have sort of opted out, and

1 certainly I know many universities that have opted out of
2 this partly because there's so many building around. It's
3 almost impossible to set up a situation where it's
4 impervious to communication with the community around it,
5 you know, in other words, they're -- the pathways are part
6 university, part belong to the town, that sort of thing. I
7 mean this is all over the country and they've simply opted
8 out. They're not going to do this for their wonderful
9 museums. They're not going to do it for the dorms. They
10 don't do it because it sets up a situation besides this
11 being expensive and so on, it's just very complicated, and
12 everybody conspires to say this just isn't going to happen
13 here.

14 So and we know enough I think about Connecticut.
15 There are a number of private schools I think that are
16 following that sort of mantra. They spend the money, and
17 they put up a drama building. They're not going to now put
18 all kinds of fire walls around a drama building. The drama
19 building enhances what they're trying to accomplish in the
20 school context. So they're not going to do it.

21 Why are they doing that, and the public school
22 system is slightly different? Are we conceptualizing it
23 differently, or don't I just understand it at all?

24 MR. MUNDAY: We are suggesting that design to
25 support safety doesn't only support safety. It supports

1 many other objectives, and that those -- that through
2 integrating that thinking about safety into the other
3 problems and the other goals, the other programmatic
4 requirements of schools can enhance safety while not -- and
5 therefore, reduce the likelihood of threat without
6 necessarily costing a great deal of money, although it can,
7 of course, cost a great deal of money.

8 MR. LUTHER: Can I add one comment to your
9 comment? I actually kind of agree with you, but that's
10 why we're suggesting that that be more of a process, and
11 that you have that conversation with the district and say
12 -- and they have to make the decision. The people in the
13 community have to make the decision where they want to
14 allocate their resources. Do they want to spend the money
15 on this event that is very unlikely, but extremely tragic
16 and horrific? Or do we want to spend our resources
17 differently, or is there a middle path? Are there things
18 we can do that maybe aren't as extreme but maybe get us to
19 where we are comfortable and we think adequately address
20 safety in our community.

21 I think it's a very difficult position to be
22 telling communities they need to do this, this and this in
23 your schools, and you've got to find the money and when the
24 glass breaks, it's your problem, and we're not going to be
25 giving you maintenance dollars. We all know how that

1 works, and towns are strapped. It's a very difficult
2 situation they're in. So I think you really have to let
3 them make the informed decision provided they have the
4 training and the information to make an informed decision.

5 COMMISSIONER SANDFORD: James, you're on the hot
6 seat. You had a lot of really good points that I saw. You
7 mentioned about putting internet service in schools or
8 making them accessible and making sure that because every
9 child has one of these, and they're going to get more of
10 them as we go through, I see them being extremely
11 important. You mentioned having a system so that children
12 could report when they see something going wrong like a see
13 something, say something campaign, but within a school
14 system.

15 The other part of it is I teach at the University
16 of New Haven, we have a program called Emergency See Me --
17 See Me or See You. I forget what it's named. I probably
18 shouldn't mention it on television, but anyway, it's a
19 really interesting program, and no matter where I am on the
20 campus, I just hit that button. It's an app in my phone.
21 It automatically dials to local police, the University of
22 New Haven Police Department, and they can listen and they
23 can see -- if I can hold my camera up with the -- if I'm
24 not being attacked, I aim my camera to what's happening,
25 and the police department gets that video. If I'm the

1 person being attacked or whatever, if I hit the button, I
2 just lay the phone down, they audibly can hear what's going
3 on, and they know exactly where I am anywhere on that
4 campus.

5 So having that internet access on the campus
6 regardless if it's a building, multiple buildings or
7 whatever, seems to me an important component that you raise
8 that we definitely need to look at when we look at low-cost
9 things that could be done on a campus, I think that's
10 something that should be considered.

11 The other thing that I think we've missed is that
12 when there's a fire, and you mentioned fire. And I'm a
13 fire person at heart and background. When there's a fire,
14 everything happens automatically. The smoke-detector
15 sensors the alarm. It goes to a panel. The panel calls a
16 service. The service calls the fire department, and a
17 bunch of red things show up in a couple of minutes.

18 When something happens related to an intruder, a
19 bomb, or any other type of law enforcement environment,
20 there has to be a human intervention to make that call.
21 You know, we need to look at alarm systems, I would hope --
22 maybe you're not the right people, but we need to talk to
23 alarm people and find out what type of automatically-
24 activated systems could call the police department and say,
25 hey, I've heard a gunshot. You know, if the City of New

1 Haven can have sensors on the street to try to figure out
2 where the gunshots are coming from when they happen on the
3 street, well, geez, I think they might work in a school,
4 and they might then preclude us -- take that human element
5 out of the process of notifying that there's something
6 going wrong in that school. I don't know what those
7 sensors are, but they can't be that expensive. I'm sure
8 they're available, and there's a system already in place to
9 do that.

10 The other component you mentioned, and I guess
11 I'm preaching more than asking, but I do have a question.

12 MR. LaPOSTA: I'm okay with this.

13 COMMISSIONER SANDFORD: But you really raised a
14 lot of good points that I think we, as a panel, need to
15 consider. The majority of the police departments in the
16 State of Connecticut, not all, but the majority of them
17 have a system that they, on a laptop, can see or get
18 emails. When I worked in Homeland Security we would
19 communicate to every police car in the state and notify
20 them what was happening if we were looking for something.

21 In other areas of the country, you can be
22 following a bus, a city bus, and if I'm a police officer,
23 and I want to see what's going on in that bus, as I pull up
24 to it -- when I get in a certain range -- and most of our
25 city buses today have cameras on them, about a dozen, and

1 that police officer can see that camera. Why can't the
2 police officer responding to an emergency call at a school
3 be able to bring up the pre-plan of that school on his
4 laptop and then look at the hallway or where that shooter
5 is or where the noise is coming from and then look with his
6 cameras going down there?

7 I mean wouldn't that really make a difference for
8 our responding? We have the system in place. You
9 mentioned it. The technology is there. It seems to me
10 that taking it to the next step and connecting that school
11 to the local police department is another low-cost option.
12 If they do it for the first school, it may be a little
13 expensive, but once it's done for one school, the cost from
14 that point on I think would be relatively reasonable, and
15 again it takes out that human element that someone has to
16 dial 911, hey, there's a shooter in my school. We need to
17 eliminate that for that process.

18 And then my last -- I guess on the rock comment,
19 I think all doors should have a perpetual sounding alarm
20 the entire time that they're open so when that student goes
21 out and puts that rock -- or the teacher goes out to get
22 the book that they forgot in their car -- I know it doesn't
23 happen, but it just might happen, that there ought to be a
24 very loud alarm that rings on that door perpetually until
25 the door is closed again.

1 So that's pretty much what I had to say. I just
2 would add one more comment. When you talked about the
3 process of existing schools and new schools, I think you
4 should have gone a little bit further with your existing
5 schools, and there's a state law that requires every school
6 to have fire alarms once a month, different times,
7 different days throughout the season. A couple of years
8 ago after 911, or after -- it was after Columbine, I think,
9 we changed the state law in Connecticut, and we allowed
10 schools -- principals to have two of those security-related
11 alarms or activations to train the students on what to do.

12 I think what we need to do next is require that
13 law enforcement be present at all of those alarms and fire
14 departments to be present at all of those alarms. Having
15 one group of people as you're showing, the emergency
16 responders, go through the school -- remember that every
17 police department typically has four shifts. Every career
18 fire department has four shifts. So you need to do it for
19 a while to make sure that all shifts get that education.

20 We need to allow schools to open their doors
21 after hours so that law enforcement can train in the
22 school. Talk to law enforcement. Say, gee, I want to get
23 in that school after hours, and we want to do SWAT training
24 or we want to bring our dogs in and do -- you know, no way.
25 We don't want that in our school. We don't want anyone to

1 see that that's happening, and that needs to be done to
2 open that door to allow those police departments in to get
3 that training. If someone told me to go down hallways 121,
4 if I've never been in that school, I don't know 121 from
5 352.

6 So, you know, just some of my comments of what
7 you made that I think some areas we need to go a little bit
8 further.

9 MR. LaPOSTA: Thank you.

10 COMMISSIONER SANDFORD: I guess I didn't have a
11 question. I'm sorry, Mr. Chairman.

12 MR. LaPOSTA: I believe we agree with everything
13 that you had said, and certainly, there's more that could
14 be done. We were trying to scratch the surface and give
15 you some food for thought, which obviously, you've thought
16 about. Thank you.

17 COMMISSIONER CHIVINSKI: Technology, we were
18 talking about rocks and doors, specifically classroom
19 doors. What are your thoughts on locks where you can lock
20 the door from the inside of the classroom versus the --
21 only the outside of the classroom?

22 One last just a comment about BYOD, bring your
23 own devices. Newtown is a bring your own device district
24 currently, and there's positives, and there's potential
25 hazards and negatives. For instance, during the lockdown

1 on 12/14, many of us had students, you know, that were --
2 they had siblings at Sandy Hook, and when you were in a
3 lockdown for that extended period of time, you know, you
4 could almost have a crisis within that limited space. So I
5 think this conversation needs to be had probably in
6 districts throughout, not only Connecticut, but the country
7 because the initial reaction might be to confiscate the
8 devices, but they're going to have to be managed in some
9 capacity.

10 MR. GOLLENBERG: This is certainly regarding the
11 locking of classroom doors post-Columbine as a requirement
12 that we be able to do that. All new schools, I think, that
13 we're doing, teachers are able to lock the door from the
14 inside without having to go open the door and allow
15 somebody else potentially access in. That also becomes a
16 potential isolated project to go back into existing
17 facilities and to do that.

18 COMMISSIONER CHIVINSKI: And I think that's the
19 question on many teachers' minds out there --

20 MR. GOLLENBERG: Yes.

21 COMMISSIONER CHIVINSKI: -- that teach in those
22 pre-Columbine structures.

23 MR. GOLLENBERG: Yes.

24 COMMISSIONER CHIVINSKI: You know, what would you
25 recommend with those doors? Should every teacher in your

1 mind be able to lock their door from the inside in these
2 types of situations?

3 MR. GOLLENBERG: I think it's a -- from the first
4 responder standpoint, it's a desirable outcome that they be
5 able to do that. I think there's precedent in some of
6 what's been done in the past with handicap accessibility
7 with making doors to classrooms accessible, this would be
8 -- this would be no different from our viewpoint of
9 creating that security project within the system that would
10 be for exactly that type of a project.

11 COMMISSIONER O'CONNOR: Thanks. I just want to
12 follow up on something that you said that I think is really
13 important, and I don't want us to lose that concept.

14 So I want to tell you a little bit about my
15 background before I actually ask this question. So I've
16 been in university law enforcement and municipal law
17 enforcement, but the last fifteen, sixteen years or so,
18 I've been university police chief. One of the locations
19 was University of Illinois, living there after the Northern
20 Illinois University shooting, and Illinois went through a
21 very similar process and came out for universities with
22 guidelines and recommendations, which is really sort of
23 what David is suggesting, and we can have these
24 conversations about, you know, because I put in laptops in
25 my officers' cars in Illinois where they could actually

1 watch the buses and all of that. The technology out there
2 is just phenomenal, and it's almost hard to keep up with
3 it, you know, you're chasing your tail with technology.

4 And you hit on a point that is individual school
5 district specific. So what I think would be important is
6 that, you know, this first slide you have up right now is
7 to have some sort of general guidelines and
8 recommendations, best practices, you know, and then
9 developing teams within each school district that evaluates
10 their schools with the stakeholders deciding, you know,
11 what are the security technologies that is best for that
12 individual place because, you know, when you focus on the
13 low-frequency, high-risk events that a school shooting is,
14 you miss out on a lot of other things in between, which is
15 sort of the all-hazards approach. So even if we're
16 training students for a fire drill or an active shooter,
17 it's going to help when the tornado comes, and that's a
18 real possibility now even in our area where you didn't
19 think it was, and we're very familiar with those in
20 Illinois.

21 But so I think to sit here and have conversations
22 about specific cameras, glass on doors, et cetera, et
23 cetera, is, you know, we could do that for months, but I
24 think to sit back and say you made your recommendations,
25 and one is you develop a team, and that they go through

1 this process. By the way, like we did in Illinois, here's
2 the best practices, recommendations, and how you do that.

3 Is that -- and I think that's the question you're
4 asking, David. Is that something that your group could do
5 from a physical standpoint? And I'm also familiar with
6 code because I over see the code enforcement team at
7 Connecticut, and I know exactly what you're referring to,
8 but that may take a while -- a long time before that comes,
9 and Connecticut, we don't want to wait that long. I think
10 that's one of the important things this commission needs to
11 do.

12 But do you think you could actually sit there if
13 we asked you, charged you or your profession with sort of
14 best practices on how you go about doing that? And a
15 process, not necessarily specifics on glazing, et cetera?

16 MR. LaPOSTA: I just polled the group, and the
17 answer is yes, we could, and I would say we wouldn't do
18 that in a vacuum though. We would be both happy and
19 honored to work on a project like that as a group of
20 professionals, as a community, but also to partner with and
21 seek the counsel and advice of some first responders. Your
22 member, Mr. Ducibella, who's not here today, actually works
23 with all of us in our private practices as a security
24 consultant on schools and we would probably seek his
25 counsel or similar counsel and advice, but we could as a

1 group put together I think a series of recommendations from
2 our profession that would be best practices.

3 COMMISSIONER O'CONNOR: Thank you.

4 MR. LaPOSTA: Thank you.

5 COMMISSIONER BENTMAN: In keeping with this
6 discussion that we're now having, it seems to me that among
7 the other things that you might consider including in your
8 best practices is that your -- when there's a major threat
9 like this, communities not only want to respond immediately
10 but they want armor, and you're telling us, I think quite
11 rightly, that there is no armor, for one, and you're asking
12 us to think about much more flexibly about what constitutes
13 the right response depending on the culture and setting and
14 all sorts of things.

15 And you're also asking us to think rather
16 counter-intuitively about some things. So, for example,
17 visibility. Most folks think if it's visible, it's not
18 safe, and you're asking us to think much more flexibly
19 about a whole host of things, and I guess I would ask you
20 whether it's possible for you to think about how various
21 groups could have a conversation with parents about the
22 more flexible ways that you're thinking about what
23 constitutes safety.

24 MR. MUNDAY: I think the word counterintuitive is
25 a very good word to use. It's how I think about this

1 issue, that it is counterintuitive to imagine that greater
2 visibility can lead to greater safety, and that would be a
3 conversation that would need to be had with all the groups
4 that are included in this process, including the users of
5 the buildings and the responders to have an understanding
6 of what that means and how it works.

7 It is a very, very serious question in FEMA
8 primers on the subject, on school safety, that question is
9 discussed and there is an increasing point of view that
10 comes down on the side of greater visibility. So clearly
11 it's not a commonly held point of view, and it does need
12 wider dissemination.

13 MR. LaPOSTA: I would also suggest that it gets
14 back to the all-hazards approach that you were discussing
15 that while -- all of these things go both ways. The
16 communications as you've mentioned go both ways. The
17 visibility can go both ways. So they can easily be good or
18 bad, but when you're looking at an all-hazard approach,
19 it's back to the likelihood of certain types of events, and
20 while greater visibility may in fact for a particular type
21 of event be a detriment for the broader range of hazards
22 that one faces day-to-day in a school environment, it may
23 in fact be a tremendous benefit, which is why that
24 conversation is so important to begin to point out when it
25 is useful and when, in fact, it may not be, and then how do

1 you control for those instances when it may not be.

2 COMMISSIONER SCHONFELD: As you're putting
3 together these recommendations, which you've kindly agreed
4 to do, so thank you. I'd also encourage thinking through
5 easily implemented, broadly applied inexpensive solutions
6 that can make a difference. So as an example, many years
7 ago when I was working with Milford public schools under
8 the first round of the REMS grants, the Readiness for
9 Emergency Management in Schools grants, they had looked
10 into the process of trying to come up with those plans that
11 can be put onto -- that can be digitized and be readily
12 accessible from laptops and police vehicles, for example,
13 and because some of the buildings were quite old, it
14 actually was more costly and time consuming than initially
15 one would think. If you design the building in AutoCAD
16 now, that's quite easy, but if you have to find up-to-date
17 plans that have also been changed because of the
18 renovations that occurred 35 years ago, this apparently is
19 a more difficult process than one might think, and costly.

20 So they did partner with a technical college and
21 try to get some of those plans done, but one of the things
22 they did, which was a very simple solution, was they
23 realized that one first step would be just to number all of
24 the entrances and exits of the building in a standardized
25 way. At Kent, it was debated about should it be clockwise

1 or counter-clockwise. So I don't remember which one was
2 decided, but they used it for all of their buildings and
3 all of the public buildings in the town. So that if you
4 went to the -- if your child was at the mall, then if
5 something happened at the mall, and there was a message
6 that went out door 13 or door 21, then the police would
7 know where to respond to that, and they were all color-
8 coded the same way throughout the entire town. Very simple
9 to do, and it also has multi-use because if you need to
10 pick your child up at the mall, instead of saying, you
11 know, the one near the Gap where the parent isn't going to
12 know that, you can say, go to door 21. So it has a -- it's
13 doesn't -- it's not just for security, but it's for
14 effective flow, and it's very cost effective.

15 So if we can think of more of those solutions, I
16 think that would be quite helpful because I'm concerned
17 that if we rely too heavily on technology, the expense of
18 the technology and the maintenance of the technology, and
19 the unintended consequences. So if you put your school on
20 the internet, someone can hack into it as well. So you
21 also create vulnerabilities as we try and reduce
22 vulnerabilities, but if we can think about also the low
23 technology, low-cost solutions that work, I think that
24 would be helpful.

25 COMMISSIONER FORRESTER: I'm sorry. We're

1 putting you on the spot, but I think, you know, I'm very
2 reminded of the bullying legislation that went into effect
3 probably ten years ago in Connecticut with really very
4 little funding behind it, but most principals in schools
5 had to address that as a direct, you know, sort of culture
6 of safety, and I love the example of all-hazard approach so
7 that I would be -- I work in a child mental health clinic
8 that unfortunately has to deal with the hazards of the bad
9 things that happen to kids sometimes in schools in the
10 hallways or in the classroom itself, you know, depending on
11 the environment, and so I think that whatever is created,
12 and whatever tool needs to include that consciousness.

13 When you were showing the classrooms, the L-shaped
14 classroom, there was an area there that I saw by the
15 lockers. I was like, oh, that's an area bullying or
16 violence can happen on a child and, you know, I'm sorry,
17 that's what I think about a lot unfortunately because of my
18 business.

19 I feel that external worries are certainly few
20 and far between luckily. It's the internal worries that we
21 also have to consider in this change, and it might be an
22 opportunity for the state to put some energy and some
23 resources behind the legislation that's already in place
24 around the bullying. So if we were looking at an
25 environmental protection, if you will, and took into

1 account that area too, I think we would be putting some
2 very valuable all-hazards work on the table. So you would
3 have to have a child mental health person on your tool kit.
4 So --

5 CHAIRMAN JACKSON: Thank you. I actually have a
6 question for some of the law enforcement current or retired
7 on the panel. When you saw the video of the glass, how
8 much did you think wow, that's very safe, and I would
9 employ it in my community, and how much did you think,
10 well, I may have to force entry into that location, and
11 that is going to be very challenging?

12 COMMISSIONER SULLIVAN: To be honest with you, it
13 didn't impress me. It's good for hurricanes. For the
14 things we're talking about, you know, I asked them a
15 question earlier and they gave me an answer I expected that
16 there's no real bottom line you could say this is the best
17 way to protect the building. Protecting for hurricanes and
18 so forth is fine. Breaching the building, we'd find a way.
19 I mean there's going to be a door. There's going to be
20 some way you're going to get in there. We have the tools.
21 We have the fire power if needed. When the police respond,
22 they respond, you know, it's automatic pilot. They're
23 going to go in, and they're going to find a way in. If
24 they have to find a way in through the roof, through a
25 door, whatever, it works both ways.

1 So I don't think it's a real concern to the
2 police. It's a protective issue, but it's still not going
3 to protect against what we're trying to protect. I still
4 think the holistic approach, you know, we talk about the
5 all-hazard approach, we talk about the cultural issue. I
6 think those are issues we need to focus on more than the
7 physical protection because when you ask the experts how
8 you do it, they look at you and they say, we don't really
9 know, I mean, which is what they're saying. We don't
10 really know what a standard should be. We don't know what
11 a basic all-school system should be. It's something that
12 has to work within that community that we probably need to
13 focus less on those issues than some other issues that I
14 think are more important.

15 COMMISSIONER O'CONNOR: I think it depends on the
16 building and the use of the building. So I think it could
17 have value, but I think I go back to the concept of
18 delaying their entry, and we know at Newtown he shot out
19 glass to get in because the school had good procedures.
20 The door was locked. You had to buzz in. The office was
21 in the front. So it might delay but I, again, think for us
22 to make sweeping recommendations I think is misplaced. I
23 think, I focus back on it's a community decision based on
24 what's happening in that community, based on the known
25 risks, the potential future risk, and so I wouldn't make a

1 one way or the other.

2 I do agree with the retired chief that we're
3 going to get in. We all carry breaching equipment in the
4 trunk of our cars, you know, so you're going to get in. If
5 you're thinking, you know, geez, will it prevent the police
6 from getting in in an emergency if they need to so a
7 caution situation -- yeah, yeah. You know, we carry that
8 standard breaching equipment in a post-Columbine world. So
9 we would get in if we needed to.

10 I don't know if you could shoot that out. What
11 would -- how long would it take with an AR15 with 30 to
12 shoot that out? Have you seen tests on that?

13 MR. LaPOSTA: We have -- no, I don't think
14 they've tested that. It would put holes in it, but it
15 would, you know --

16 COMMISSIONER O'CONNOR: Yeah.

17 MR. LaPOSTA: I think you'd have to put a lot of
18 holes --

19 COMMISSIONER O'CONNOR: Yeah.

20 MR. LaPOSTA: -- in it before you actually --

21 COMMISSIONER O'CONNOR: Yeah. I've heard of this
22 concept of 3M film you can place over the windows, which
23 goes to your point, David, you know, that if you want to do
24 3M film it's a relatively low-cost, which is going to do
25 the same thing, right? It's going to be hard to shatter?

1 It won't?

2 MR. LaPOSTA: We have several districts now that
3 are --

4 COMMISSIONER O'CONNOR: Yeah.

5 MR. LaPOSTA: -- asking us to look at that as a
6 retrofit --

7 COMMISSIONER O'CONNOR: Right.

8 MR. LaPOSTA: -- for some of their entry doors.

9 COMMISSIONER O'CONNOR: Right.

10 MR. LaPOSTA: Again, it's about the concept of
11 delaying.

12 COMMISSIONER O'CONNOR: Yup.

13 MR. LaPOSTA: If you can slow somebody down for
14 three or four minutes to give you time to arrive. The
15 point of the video was, you know, at about minute three,
16 probably those guys are in the back seat of a cruiser at
17 that point because it's, you know, you're not going to get
18 17 minutes to get into a building in that video.

19 COMMISSIONER O'CONNOR: Right, because we have
20 analytic cameras that are laying dormant. So the moment
21 they show up, it's ringing into the PD and they're
22 responding.

23 MR. LaPOSTA: Or somebody hears that sledge hammer
24 hit the glass and actually calls somebody.

25 CHAIRMAN JACKSON: Anyone else?

1 I want to thank the panel for that very
2 informative and very thoughtful presentation. Obviously,
3 the architects of the State of Connecticut take this very
4 seriously, and we deeply appreciate your recommendations.
5 Thank you so much for your time, and I will be in touch to
6 talk about some next steps in terms of developing this
7 Tools for Schools style program where we can try to provide
8 districts of all sizes and all diversity at least a
9 reasonable process by which they can analyze their
10 facilities and determine what needs to fit their unique
11 circumstances.

12 Thank you so much for your time.

13 PANEL: Thank you.

14 CHAIRMAN JACKSON: Next on the agenda is Mr. Ken
15 Trump. He is unable to join us. He was traveling today.
16 So we're going to take a brief break before we proceed.
17 Actually, is Ms. Kennett here from FEMA?

18 Okay. She has not arrived yet. So why don't we
19 break for lunch. She is -- she was originally scheduled
20 for 12:45. So why don't we take a lunch break now and
21 reconvene at 12:45 p.m. here. Thank you.

22 (Recess.)

23 CHAIRMAN JACKSON: All right. Thanks for your
24 patience everyone. I think we're ready to reconvene. We
25 have two presenters for this afternoon session. I would

1 like to welcome from Washington, DC from FEMA, Ms. Mila
2 Kennett, who is going to talk to us about the standards for
3 safe school design that were developed by that agency.
4 Thank you for joining us today.

5 MS. KENNETT: Hi.

6 CHAIRMAN JACKSON: Hello. Oh, there's a button
7 to turn that microphone one. There you go.

8 MS. KENNETT: I just want to first thank
9 everybody for inviting us to this very important -- to
10 present in front of this very important commission, and I
11 want to introduce two colleagues, Bob Smilowitz, here.
12 He's responsible for the part that deals in that manual
13 that you're looking at, and I'm going to be talking a
14 little bit for explosives, and Bogdan Srdanovic. He's a
15 co-author of this manual.

16 First, let me say some things about the manual.
17 First, the first manual for safe school was prepared by
18 FEMA in 2003. This particular manual is prepared by the
19 Department of Homeland Security Science and Technology
20 Resiliency System Division. There's where I work. I used
21 to work in FEMA. I started in 2000, but right now four
22 years ago I moved to the HS S&T. So that's my right
23 affiliation. I'm with the HS S&T, Science and Technology.

24 Again, thank you very much. This manual, like I
25 said, it was put together by a large team. It's not --

1 there you go. This manual was put together by a very large
2 team, and the team was formed by people with different
3 disciplines. It was a multi-disciplinary team.

4 The things that I'm going to be talking about
5 today will be really coming out from the manual, and I will
6 be glad to send a copy to everybody. I only was able to
7 bring a few copies because it was too heavy, but I promise
8 you, Mr. Jackson, would let me know -- the mayor would let
9 me know who wants copies and how many copies, and we would
10 be very happy to send it to you.

11 Again, this manual, what it does is -- and this
12 is pretty much what we're going to be talking about, about
13 the physicality of schools. The basic principles are
14 technology for school safety, and I just want to mention
15 that in Chapter 1 of this, Mr. Jackson told me that he
16 wants to learn more about this manual, and this is what is
17 my intention to do today. And the Chapter 1, it talks
18 about something that is very important, and we're going to
19 be talking about, is risk-assessment, how we assess risk in
20 schools.

21 Around Chapter 2 is more things that have to do
22 with the site, how you control your site, the surroundings
23 of your school. Chapter 3 is -- we have a chapter on
24 school shootings, and we mention there -- we describe the
25 events, and we describe the response, and then we make some

1 recommendation at the end of each of the case studies that
2 we have included.

3 And then Chapter 4 is blast effect and design
4 guide to mitigate hazards, and I just want to mention
5 something. We think a lot about school shootings, but
6 blast is really important. If we see, for instance, in
7 Virginia Tech shootings, the shooter put a sign in the
8 doors after he put some change and says you cannot come in
9 because a bomb will explode, and that really delayed a lot
10 the response.

11 In Columbine, a bomb was put to get first in the
12 cafeteria. Thank God it didn't explode, but explosives
13 were used, and throughout the roaming around the schools
14 they were shooting all kind of bombs, homemade bombs. And
15 then finally in Beslan in Russia, that was a terrorist act.
16 That was a little bit different, but explosives were used
17 extensively. So I would say that school -- in school --
18 besides school shootings, explosives are very important.
19 That's what Bob is also here with me.

20 And then in Chapter 4 we have -- I'm sorry, in
21 Chapter 5, we have -- we talk about toxic releases, which
22 is another potential threat.

23 How we see school safety? We see three -- how do
24 you design a good school? We see that three pillars for
25 school design. The first one is high-performance. As you

1 all know that most of our buildings and our schools are
2 designed for safety according to our codes and standards.
3 And what school safety is, is that if something happens, an
4 earthquake, flood or wind or anything happens, it gives you
5 enough time to evacuate the school, but the functionality
6 of the schools are not permanent, are not there after the
7 event.

8 Resiliency, we may -- this is a buzz word now.
9 Everybody is talking about resiliency, but resiliency for
10 us for this program, is the capacity of any schools or
11 buildings to perform and provide basic service after event,
12 after hazard event. And another thing that is very
13 important in this program is that -- it's an all-hazard
14 approach. And why all-hazards? Because in reality, we
15 cannot only -- if we design for only one thing, we lose
16 money. Like I said, in schools we should be -- we should
17 look at shootings. We should look at blasts. We should
18 look at earthquake, flood and wind. We should look at
19 potential hazards that deal with chemical, biological,
20 radiological. We could -- it's a holistic design what we
21 recommend for school safety.

22 Now, when we talk about all these things about
23 making school very secure and doing all those things, I
24 know there -- it could be a conflict in terms of what is
25 needed for the learning for school, for the openness of

1 schools, and for an open environment for learning. And
2 looking for the right balance where you don't get in
3 conflict between what are the first things that you should
4 do in terms of safety and what is the things that you
5 should keep for a good learning environment is what I call
6 a smart design. And we're going to be talking a little
7 more about that here.

8 But some of the things for a desirable school
9 design, I would say health, safety and security that is --
10 that the students and teachers feel comfortable with the
11 learning program, serve as center for the community because
12 the schools are always -- some of them function as
13 shelters, other for any emergency, allow flexibility and
14 electability to changes and protect -- this is a big one --
15 against natural hazards, protect against man-made hazards,
16 use daylight and comfort control, design for durability and
17 energy efficiency. Energy efficiency is one of the big
18 recommendations right now. And also I would say, in
19 general, the final design should be kind of a project that
20 the community gets involved with the school authorities,
21 and they come to a solution that is desirable for the
22 entire community.

23 Now, I want to -- this is kind of the framework.
24 I want to go to more into some areas of the manual. One of
25 the big things that I'm here to talk about is about school

1 risk, and we have divided school risk in two, manmade and
2 natural disasters. Again, I'm proposing a design for a
3 school that is all-hazard. In the threats we have
4 internals and external attacks. We have school shootings.
5 It could be internal, external, explosive blasts, and CVR
6 chemical, biological and radiological releases, and also we
7 have some estimated perimeters for our risk analysis. One
8 is 100 feet, 300 feet and 1,000 feet. When you are
9 concerned with schools, you have to not only understand
10 what is in the school, but what is in your perimeter and
11 how you protect your perimeter. And this is a little bit
12 more of that in the next slide.

13 And active shooter is for us in the manual is
14 anybody that is armed and impose force against multiple
15 victims, potential victims, and the active shooter who
16 would be as we have seen a single shooter, like in the case
17 of Virginia Tech, and unfortunately which had all the
18 nation with a lot of pain what happened in Sandy Hook. It
19 could be a team of shooters, what happened in Columbine;
20 snipers, what happened in University of Texas. They could
21 be in an elevated position, in ground position, hostage
22 taking like happened in Russia, in Beslan, and it could be
23 individual hostages or multiple hostages.

24 So here is another schematic representation again
25 of the areas that we need to control, and just let me say

1 that the first layer -- we call it layers of defense, but
2 it's perimeter control. The first layer of defense,
3 sometimes the school or the potential school, whoever -- an
4 existing one or you want to design has very little to do
5 because it's outside of the perimeter, but we need to be
6 aware of what is outside the perimeter.

7 The second layer is the one that we could
8 control, and you see the schematic drawing on the bottom
9 how to protect the front. How to block views and not let
10 intruders sort of look inside. And the third layer of
11 defense is the building itself, the school itself.

12 This -- from here on, we're going to talk a
13 little bit about Chapter 3 in the manual, and the chapter
14 highlights again, case studies of school shootings. And
15 what I did is I went inside the book and divided this
16 section in situations, vulnerabilities and then some kind
17 of action, action plan. And in the situations, which are
18 the ones we're going to be talking now, the difficulties
19 that -- to protect school are many, and first I will say
20 that the attacks -- any attack that involve children is
21 very difficult to handle because children, unless you had a
22 lot of exercises, they sometimes, when they panic, their
23 reaction is a little bit different than anticipated. So
24 that element increase the difficulties.

25 School shootings are, I would say, probability --

1 they are half low-probability, but the consequences are
2 very high. There's no school shootings every day, but when
3 they happen, the whole nation -- like in the case of Sandy
4 Hook, you know, everybody is like so much moved with the
5 events here.

6 One of the things, the characteristics of the
7 events is -- and this is -- I'm talking remember about the
8 physicality of the building. We will get there, but one of
9 the things that we have to understand for when we talk
10 about vulnerabilities is that the school shootings evolve
11 very rapidly, and they don't last -- some of them don't
12 last -- only last a short time, and when the first
13 responders or the police arrive, either the event is over,
14 or it is very difficult for those forces to intervene to do
15 something effectively. So those are some of the
16 difficulties that we are going to be identifying when we
17 are thinking about vulnerabilities.

18 Another thing is that when finally the first
19 responder or police arrive, it's a lot of confusion, and
20 this is all in the manual. In the case, for instance, of
21 Virginia Tech, the police thought they have more than one
22 shooter, and the reason was because he was using different
23 guns. So it was a long time between the arrival of the
24 police when they finally got inside the building it was
25 like two hours before -- after the arrival. Also, it's

1 very difficult to identify the position and location of the
2 shooters, where they are, and also the location of the
3 people that have been injured, or the students and teachers
4 that have been injured.

5 In the -- I don't know if you remember, but there
6 is also -- Westside Middle School in Arizona there was two
7 kids who perpetrated that attack, 12 -- 11 and 13 years
8 old, and what they did is they first pushed the fire alarm
9 to get all the kids outside the building, and when they --
10 the kids came outside the building because they thought it
11 was a fire, and they were trained to fire, the shooting
12 started. And luckily it was stopped by some workers, but
13 this is some of the difficulties, that the shooters can use
14 different strategies to get the students to come together
15 to a particular side.

16 Another situation that we found is that the
17 shooters may commit suicide by the time when the police
18 arrives, but however, the police doesn't understand the
19 situation, and it may take them a long time still to be
20 around.

21 And that also that most weapons used in the
22 shootings are rifles and handguns.

23 This is a little -- the picture in the right is
24 Beslan, and I want to talk briefly about it, but I got from
25 the book some statistics that shows that between 1989 and

1 2009, 41 shootings occur resulting with 75 dead and 154
2 injured. In 2003 and 2004 -- between 2003 and 2004, the
3 numbers of firearm incidents and explosive possession was
4 7,478 in 4,875 schools, and the number of incidents
5 involving knife and sharp objects was 30,000, over 30,000.

6 In Beslan, as you know, the significance of this
7 one is that it was a little bit different. It was
8 perpetrated by terrorists. Also, there were demands
9 imposed to the government for the release of some of the
10 victims. The total was over 300 students, and very
11 interesting, one of the problems is also that the community
12 reacted to this event, and they came to the site with their
13 fire guns and a lot of shooting was exchanged between the
14 terrorists and the people.

15 The children, in the beginning, were used as
16 shields, and they were put into -- in front of the windows
17 so that the forces outside would not shoot the schools, and
18 the whole event ended up three days after with a fire in
19 the gym, and the destruction of that building as you may
20 see it.

21 Now, I want to talk about something about the
22 vulnerabilities that we were talking, and I would say that
23 most schools old and new do not satisfy all what is needed
24 for safety -- all the parameters that are needed for
25 safety. When we're talking about high-performance, they

1 are not there, and they are not there for two reasons.
2 Number one is that money is a constraint, and to put safety
3 in place costs money. Also to retro-fit or rehabilitate a
4 school costs money. So that's one aspect, that why a
5 school doesn't have all the safety parameters they need.
6 Another problem is that sometimes we don't have all the
7 knowledge about how to reduce risk, and this is something
8 that I hope the manual would help.

9 Major vulnerabilities when a shooter come to a
10 school is to really stop him from entering the school and
11 roaming around. This is what really cause a lot of
12 victims. Unguarded grounds and multiple exit doors provide
13 easy access to the shooters, but they are also necessary
14 for the students to escape. So again, we find those things
15 that are in conflict may be in conflict.

16 One of the things also in all these case studies
17 that we presented in the book is the lack of communication,
18 the difficult communication first between -- first the
19 police is alerted, and then when the first responder come
20 to the site, it's another site of problems because it's
21 difficult to locate the shooter. It's difficult to locate
22 what is happening and the type of weapon, if there are
23 bombs, if there are explosives. It's a very difficult
24 situation, and that's another of the big vulnerability.

25 And for me, one of the things that -- and I think

1 this is really important, is the lack of places for the
2 student to hide or barricade themselves, and there are many
3 solutions for that. Maybe when we are designing a school,
4 we need to think a little bit, but in all of the cases that
5 we review, a lot of students were not injured or killed
6 because they had a place to hide, and we may want as a
7 society to look for -- think about safe rooms or look about
8 doors that cannot be opened with a gun because that's what
9 happened. You have locked door, but the shooter could
10 impose themselves and open the door. So if we are talking
11 about doors, doors need to be safe. Doors need to not to
12 be easy accessed by the intruder.

13 We have -- I know specifically in Sandy Hook we
14 have some new measures for filtering who comes into the
15 school, and that's a great thing, but I believe,
16 personally, that we need more than that. We need a second
17 filter that sort of stops the intruder from going any
18 further. Maybe classrooms needs to be designed at the end,
19 far away from the entrance, but we need a way to stop if
20 somebody is starting to roam in the school and is doing
21 some violent act, how to stop that person because in the
22 school's reality, after the intruder is inside, there is
23 very little what can be done.

24 Here, I have some strategies how to -- about
25 protective measures, and one of the things is that when we

1 think about designing or retrofitting in schools, schools
2 are rehabilitated all the time. We need to think about a
3 safety measures, something that is part of the design, not
4 an aftermath or an afterthought, but something that when we
5 think about making our school -- existing school stronger
6 or a new school better, we need to think about safety like
7 it's an essential part of design.

8 And I think the goal of this strategy will be to
9 limit the shooter entrance to the school or limit the time
10 they can spend searching for targets of victims because
11 that's a big thing. After they are inside the building,
12 there's very little control how they move around and they
13 roam around, and we need to think about that when we are
14 designing. And also, how will you allow teachers more time
15 to evacuate to safe areas or seek cover.

16 Some of the strategies will be to provide inner
17 doors of limit access to the -- to isolate or limit the
18 access of the shooter. It ideally will be operated
19 remotely. Again, I mentioned this before, and I would like
20 to reaffirm the importance of strong locks on classroom
21 doors. You cannot just put a lock and have this lock be
22 sort of removed by a shooter with a gun. We need to think
23 what type of doors we're going to be needing.

24 Also in the case of -- in Columbine, classroom
25 doors, the students, they didn't -- they just roam in the

1 hallway. They never went inside any classroom, and most of
2 the shooters -- if the students were protected inside with
3 a strong door closed, the students were unharmed.

4 Other shooters, of course, they have to shoot
5 through the doors and have killed the teachers, but most --
6 that's why I'm talking not only common doors, but doors
7 that will protect from an armed intruder.

8 Also, it's important to have a well-located
9 administration area that somehow the school can control the
10 entries, drop areas, lobbies and stairways and hallways.

11 And the chart at top and some of the -- this is
12 in the manual and some suggestions, strategies, suggesting
13 deterrents, detection, delay and expose investigation and
14 consequences, and there are different techniques how to,
15 you know, delay the potential attack.

16 Another strategy will be to -- a lot of students
17 have been saved by jumping from the window, and we should
18 make sure that we permit that to happen. In some schools,
19 like in Beslan, they have barred windows, bars on the
20 windows, and the students could not jump, but also we need
21 to make sure that the area underneath of the building --
22 below the window is clear so that students can be -- jump
23 safely to that area if they need to.

24 Parking needs to be visible, and should be under
25 control for the school. And this is something that maybe,

1 you know, not everybody accept, but depending on the
2 school, the size, the location and the vulnerability of the
3 school, maybe we could consider intrusion detection such as
4 cameras, access control measures, immediate video and other
5 kind of safety measures that case by case we understand is
6 important for that particular school.

7 I talk about a little bit about safe havens, a
8 safe room where students can be moved in case of an attack.
9 Also, I believe I mentioned that we have some inner doors
10 that can be dropped and confine particular areas of the
11 schools. And also, I believe, that it's important to have
12 risk-reduction strategies and training and simulation
13 programs.

14 Now, I want to talk a lot -- a little bit about
15 what the manual talks a lot is about risk assessments, and
16 we are a strong believer that to minimize any risk of
17 vulnerabilities, you need to understand what is your risk,
18 and this is something that I'm going to focus now, and if
19 you have a threat of hazard, schools can -- you cannot
20 control when things are going to happen or what hazard is
21 going to approach. The Secret Service says that we don't
22 have enough data to make any forecast reliable. So we
23 cannot control the threat. The consequence is always going
24 to be very great. We can minimize them perhaps doing some
25 preparedness where the school -- as we do fire drills, the

1 children do exercise in case of a shooter. We could do
2 that.

3 And in the vulnerabilities, again, which is the
4 focus of this presentation, it would be more by adopting
5 the appropriate protection and safety improvements.

6 One of the methods for minimizing vulnerability
7 and risk in general is to understand, again, your threat,
8 your consequences and your vulnerabilities, and that's what
9 risk assessment does. Risk assessment should be -- we
10 cannot make general recommendations for every school. It
11 has to be school by school, location by location and place
12 by place. And so it should be on an individual basis.

13 When we do a risk assessment, even if you think
14 your priority will be school shooting, explosives or any
15 other hazard that is important for you, I think if we
16 design, we should design for all hazards at the same time.
17 We should design for earthquake if you are earthquake
18 vulnerable, for flood, for wind because a school needs to
19 be a safe place for children.

20 To get close to a risk assessment in the manual
21 that I provided that I'm promising to send more copies,
22 there's in the Appendix F, you will see there is a
23 checklist that identify all the risk of schools. It goes
24 through one by one what are the major risk of vulnerability
25 of a particular school, and it's a checklist for the

1 schools to understand their vulnerabilities and do
2 precisely that, check which ones are the ones that concern
3 them.

4 What the HS S&T has done is that we have right
5 now we have a tool. It's called the IRVS, Integrated Rapid
6 Visual Screening risk assessment tool, and it's free of
7 charge, and this tool what it does is produce a risk
8 assessment in a way that is very easy to prepare, it's
9 accurate and it's friendly use. It doesn't have to be done
10 by the professional. It could be done by a school
11 administrator or a facility manager at school. And what it
12 does is identify the most cost effective vulnerability and
13 which mitigation measures -- how you should mitigate that
14 vulnerabilities, how to reduce that vulnerabilities.

15 We have that tool available, and this is an
16 example of the outcomes of preparing a risk assessment. As
17 you see, in this case they have twenty-two scenarios. It's
18 all hazards, and major risks are highlighted in red, and if
19 you see in the multi-hazard interaction matrix that is in
20 the bottom, you will see that by doing something, for
21 instance an earthquake, you are sort of helping other
22 hazards to improve.

23 So with this comprehensive analysis, again, it's
24 something that's available, and we could provide free of
25 charge.

1 Now, I want to say that that particular risk
2 assessment that we have in our -- it's available on our
3 website. Again, it's free of charge. There's one thing
4 missing, that's a risk assessment that has not been
5 prepared for schools specifically. It's for general
6 buildings, and my point is that schools are so special and
7 have so many -- they are complex structures designed in a
8 particular way. Some have gyms. Some have big libraries.
9 It depends on the school.

10 That really -- what we need to do is -- what I
11 would like to do in my recommendation -- part of my
12 recommendation is to take that risk assessment that we have
13 currently and add the list that we have in the publication
14 bib 7 in the Appendix F and put it together so that we have
15 -- we convert a generic risk assessment into something that
16 can be used for the assessment of risk for schools.

17 I think that also I propose that putting together
18 with that should be another publication that's from DHS.
19 It's called the Active Shooter, and all this information
20 should go into a tool that very rapidly and at a very low
21 cost determines the risk and the vulnerabilities of your
22 school. The benefit will be that, of course, it will save
23 life. That would be the major thing. And also, it could
24 help -- if it's done in several schools, it could help all
25 schools in an area to evaluate which one are at -- have the

1 largest -- the highest risk.

2 We have also a version, and you will see why I
3 mention that of the RVS, which is the done for federal
4 buildings or leased buildings. And this is compliant with
5 the ISC. The ISC is the Interagency Security Committee.
6 And all federal buildings have to be evaluated with that
7 particular standards -- to those particular standards. So
8 the HS S&T, we prepare -- we automated the ISC, and now
9 it's available, again, free of charge, but it's FOUO. So
10 that has been -- that has to be requested separately by
11 each organization.

12 We released that software in September 2012, and
13 we have most of the federal organizations already using it
14 as a tool, and they have it uploaded in their systems, and
15 now they could assess all the buildings that deal with a
16 particular organization. For instance, the Smithsonian is
17 assessing all the Smithsonian buildings with that
18 particular software. DOD is starting to do it. The U.S.
19 Court is taking a look. The Bureau of Indian Affairs I'm
20 going to leave for later because I'm going to talk about
21 them. All the DHS buildings are assessed with that
22 particular software.

23 And the other recommendation that I have is to
24 take, for instance, this book that we have and put it into
25 a training course that we could teach how to reduce

1 vulnerabilities in schools by providing the scores --
2 making the scores available for teachers, for school
3 managers, for engineers and architects that are going to be
4 designing schools so that the new concept of a safe school
5 comes into play.

6 I want to say that currently I had a -- this is
7 what I said I was going to mention. This is my last line,
8 I believe, and I mentioned that I received an email, and I
9 believe I shared it with Mr. Jackson. I believe I sent him
10 a copy -- from the person in the -- special agent in the
11 Bureau of Indian Affairs, and this person is going around
12 the country assessing the schools, and he has the RVS tool
13 in one hand and the publication and the checklists in the
14 other, and I have been talking to him how wonderful are we
15 to put them together, and this is one of the things that
16 everybody is thinking about, and this colleague already he
17 has gone around, and he's assessing over 100 colleges and
18 school buildings. I talked to him yesterday, and he said
19 everything is going pretty well.

20 One of the things that he does is he runs the
21 software, and then he discuss it with the facility manager,
22 and he takes the checklist after he finish, and he discuss
23 the results with the school coordinators and the staff.
24 And that's the way that he has the holistic picture about
25 the vulnerability of schools.

1 I have to say that a person in St. Claire is
2 using the software, and he has conducted more than 22
3 assessments and the average is that each assessment take
4 2.75 hours, and they have saved -- using this methodology
5 -- saved hours per man a total of 352 hours for these 22
6 buildings.

7 And that's all what I have to say. I don't know
8 if you want to hear my colleagues here if they have
9 something to say or how you want to proceed next.

10 CHAIRMAN JACKSON: Thank you. Is there anything,
11 gentlemen, that you'd like to add to the presentation or
12 are you prepared for questions and answers for the panel?

13 MR. SMILOWITZ: If you don't mind, I just have
14 just one brief statement. Mila is working on the
15 government side. She's an architect. I'm working in
16 private industry as an engineer, and it's a collaboration.
17 I see it from a slightly different perspective, but it's
18 exactly as Mila had described it. It's a team effort
19 between the design professionals and the stakeholders,
20 security professionals, architects, engineers. It doesn't
21 have to result in extensive changes or modifications, but
22 it should be considered.

23 So things that are either accepted or rejected as
24 a design parameter or design option should be discussed and
25 evaluated relative to all other design requirements so that

1 it's not something that was an afterthought or something
2 that was overlooked or neglected. You know, we make
3 willful choices throughout our lives, and in the design
4 process it's constantly a battle against the budget,
5 against the other constraints, and school safety or
6 protective design in general is just another aspect of that
7 process. So I just wanted to bring that point into a
8 different focus.

9 MR. SRDANOVIC: I would like also to emphasize
10 something that has been mentioned, but probably not to the
11 extent that it deserves, and that is the fact that after
12 incidents like these people often think, what can we do?
13 The fact is that neither of us actually likes the idea that
14 we can't do very much. The fact is that a lot of the
15 recommendations, what one can do, are not complementary to
16 the functions of schools. We talk about physical
17 protection here, but many of the physical protections --
18 physical protection measures that other institutions or
19 organizations use are not compatible with the school
20 environment, and as a matter of fact, a commission similar
21 to this one after the Columbine incident decided that, you
22 know, monitoring, detection, surveillance systems that many
23 security systems use are really not recommended for schools
24 because they may actually create an environment where
25 students feel very uncomfortable and may create more

1 problems than solve.

2 So this is why, for example, we need to know
3 exactly what the vulnerabilities are in various of these
4 schools that each district or school itself can make these
5 tradeoffs. To what extent we can actually do improve -- we
6 can improve physical security without any downside for the
7 educational environment, and there are many such measures
8 that can be done.

9 So this is important to keep in mind that not all
10 protective measures are actually counterproductive in terms
11 of a learning environment and convivial environment of a
12 school. That's all.

13 CHAIRMAN JACKSON: Thank you. Questions?

14 COMMISSIONER SCHONFELD: I just have a brief
15 comment and point of clarification, and I don't mean it to
16 sound like I'm picking on your wording, but under the table
17 --

18 MS. KENNETT: It's my second language.

19 COMMISSIONER SCHONFELD: Oh, I didn't mean that.
20 I was actually going --

21 MS. KENNETT: So you can pick all what you want.

22 COMMISSIONER SCHONFELD: I was going on the
23 slide. Under the schools and risk assessment slide, it
24 says that the probability of school shootings and manmade
25 and natural hazards, and it says schools can do very little

1 to reduce the probability of these events, and then it
2 references what I believe is the U.S. Secret Service
3 conclusions about profiling to look for active shooters.

4 So while I will agree that we can do little to
5 pick out who is going to be the active shooter, among many
6 individuals, youth and young adults who may be at risk, I
7 don't think we should conclude that there's very little we
8 can do to prevent children and youth from developing some
9 of these problems that may place them at risk of doing
10 these events.

11 So I mean, obviously, the Secret Service isn't
12 going to be advising us on child development and handling
13 mental health issues. So I just want to clarify what you
14 meant by that statement because in another panel when we're
15 not talking about buildings, we are going to be talking
16 about mental health needs, and I didn't want to -- I wanted
17 us to look critically at the statement because I do think
18 there actually is a lot we can do, but it's not going to
19 come from the Secret Service. So --

20 MS. KENNETT: I couldn't agree more with you. I
21 am in complete agreement. This was in a statement taken
22 when the publication prepared a few years ago.

23 COMMISSIONER SCHONFELD: And again, I wasn't
24 trying to challenge the publication. It was just --

25 MS. KENNETT: No, no, no, no, no, but I do want

1 to clarify something. I believe that it's -- this has been
2 seen from the point of view that it's like when you prepare
3 for a terrorist, not all the terror -- even if you prepare
4 100 percent for explosive, there's something that can go
5 wrong and happen, and I think that's what this is referring
6 in a way that we could do -- and I agree, we should do a
7 lot for mental health in our community, and that is
8 something that I hope comes out from --

9 COMMISSIONER SCHONFELD: And let me clarify the
10 reason why I say this, and it's not -- again, it's not to
11 be critical of the report. There was at least some
12 correspondence that was sent to members of this commission
13 that quoted some other document out of context such as this
14 saying you really can do little to improve the mental
15 health. You know, you can't prevent the mental illness.
16 You have to deal with the security issue.

17 MS. KENNETT: I think it --

18 COMMISSIONER SCHONFELD: So I just want to be
19 cautious that these statements can be taken out of context.

20 MS. KENNETT: I don't think it talks about public
21 health. It talks about the events itself.

22 COMMISSIONER SCHONFELD: Oh, no, and again, I'm
23 just saying --

24 MS. KENNETT: Yeah.

25 COMMISSIONER SCHONFELD: -- when these quotes are

1 taken out of context --

2 MS. KENNETT: Yeah, I agree.

3 MR. SCHNOFELD: -- then sometimes they're
4 misinterpreted. So I just want to say that because I think
5 there is a tension that may be playing out of how much do
6 we just accept that mental illness occurs and assume that
7 we have to put most of our resources into strengthening
8 buildings and systems to create a more safe environment
9 accepting that there will be mental illness and violence in
10 the community, and how much do we try and create an
11 environment where we minimize the amount of mental health
12 difficulties and intervene earlier on knowing we can't
13 still prevent 100 percent, as you said, but we may be able
14 -- there may be a lot we can do to reduce these threats is
15 all that I'm saying, and again, I'm taking it out of
16 context, but --

17 MS. KENNETT: Let me just respond to that very
18 briefly, and I would say that one of the things when Mr.
19 Jackson invite me to talk about the manual, I was very
20 happy that it was about school safety, about the
21 physicality of the school because I really -- I believe
22 that this commission -- I don't know all the things, all
23 the details about the commission, but the commission will
24 be dealing with very sensitive areas like mental health,
25 gun control, and I'm so glad that I'm only talking -- and I

1 want my panel only to talk about the buildings because
2 that's what we do. I don't know anything really, I'm an
3 architect. He's an engineer. He's an architect. We don't
4 know anything about mental problems and society problems or
5 guns. We just know about the safety of the school.

6 And when we see school shootings, we see it in a
7 way that we see other hazards. You cannot prevent the
8 earthquake. They're going to happen. You could have a
9 very secure building, but they're going to happen. Floods
10 are going to happen. Fires are going to happen, and that's
11 the way that we see it.

12 MR. SRDANOVIC: May I clarify the U.S. Secret
13 Service statement? Just to give some background, the DHS
14 designates risk as having three components: the threat, the
15 hazard for natural events, the vulnerability and the
16 consequences of an event. The U.S. Secret Service example
17 was given as an example of a conclusion that not even
18 government or public sector, shall we say like schools, can
19 actually address and reduce threat level. That's outside
20 of their purview. What schools and schools districts can
21 do is only address vulnerabilities and consequences. They
22 can manage those by trying to reduce them. They cannot
23 reduce the threat level because it's out there, and we
24 don't know enough about it.

25 What Secret Service concluded was that not only

1 we don't know enough about it, but what we do know is
2 insufficient to create a policy, to create a response that
3 would be sufficiently universal to be used as a
4 recommendation, not that we cannot do anything. Obviously,
5 that's a matter for social policy and other issues like
6 mental health or something. This was only in regard to
7 what we can do to protect schools.

8 COMMISSIONER SCHONFELD: The only thing that I
9 will say is that I actually do believe that schools can do
10 a lot to try and enhance the mental health of children that
11 are under their care, and that actually many of these
12 school shootings are actually from students or recently
13 former students. And so I agree that if somebody is coming
14 from another country as a terrorist, there's little that
15 schools can do to prevent that threat from coming into
16 their school, but a lot of these threats do originate from
17 school children.

18 MS. KENNETT: I couldn't agree more with you.

19 COMMISSIONER SCHONFELD: So I do think -- we're
20 not really disagreeing, but I just -- and it is not the
21 purview of what the panel was for, but I just did want to
22 --

23 MS. KENNETT: I agree.

24 COMMISSIONER SCHONFELD: -- challenge that
25 statement because out of context, I don't agree with it,

1 but I don't think you agree with it out of context either.

2 MS. KENNETT: I agree with you.

3 MS. SCHONFELD: So thank you.

4 CHAIRMAN JACKSON: Thank you. Kathy?

5 COMMISSIONER FLAHERTY: My question for you is,
6 and I think the recommendation of developing an IVRS
7 especially for schools is a start. My question for you is
8 everybody sort of hates the idea of mandates, but once
9 there is something that's -- whether it's developed by FEMA
10 or whoever else, do you think that this should come from
11 some sort of federal level that -- whether it's the U.S.
12 Department of Education or anybody else that says every
13 school district everywhere in the country should use this
14 assessment tool once it's developed and look at their
15 schools?

16 MS. KENNETT: I would say two things, and we
17 talked about that each school is different. If I would be
18 making the policy, I would say it's something volunteer
19 that schools adopt as they believe they should; however,
20 having said that, there's a mandate for federal buildings
21 to be assessed for risk because you want to know your risk,
22 and you want to evaluate it and understand it. But this is
23 something that I would say that schools -- and I have seen
24 that happening. You put the tool out there, and schools
25 will run to use it because every school wants to know how

1 is their risk and how much they -- it will cost for them to
2 sort of minimize that risk or decrease that risk in a cost-
3 effective manner. So but I don't believe it should be a --
4 something imposed, but something that different schools
5 adopt as they believe it fits.

6 The Department of Homeland Security has developed
7 those tools, and we are going through a budget crisis but I
8 believe that demonstration will be very receptive to
9 recommendations from this panel, and what -- we already
10 have the tool. It will be a matter of adopting that tool
11 and expanding that tool to fit some characteristics that
12 are for schools. They will be open for recommendation I
13 believe. I cannot speak for my -- for the secretaries and
14 under-secretaries, but I believe that they are receptive,
15 and even if we are in the manage crisis, I believe that
16 they will pay attention to anything that comes out from
17 this commission or the Department of Education.

18 If the Department of Education is interested, I
19 would be very happy to work with them and sort of help them
20 because this -- we are not talking about a lot money. We
21 are talking about, in fact, very little money to adopt that
22 because we have all the engines already done.

23 COMMISSIONER McCARTHY: Good afternoon. Thank
24 you for coming up today. When we have discussed -- and
25 some of the previous comments have focused on the low-

1 frequency, high-impact events, and I think that we have a
2 real concern about making recommendations for those very
3 low-frequency events and that they won't pass the cost-
4 benefit test, and if we're asking communities to spend
5 money to improve safety there has to be an improvement
6 every day, and I think that what I hope that we come up
7 with is a series of recommendations that will change the
8 culture and the safety in schools every day.

9 You started at gun violence and then when you
10 talked about all-hazards, you went up from there, and I
11 think when we think of all-hazards, gun violence may be at
12 the peak, but it's gang violence in schools. It's drugs in
13 schools. It's bullying. It's student on teacher violence.
14 And so we may build up to gun violence as maybe the most
15 extreme.

16 So I hope that we can come up with some
17 recommendations that will have practical benefits in
18 schools systems every day so if we're asking districts to
19 spend money for improvements, they will see that benefit.
20 And I would hope that any changes or improvements or
21 additions to threat assessment will include those types of
22 events that affect the culture of safety in schools on a
23 daily basis, and I think that that might be -- it might be
24 helpful to partner with the Department of Education to
25 understand the needs of schools systems and the practical

1 applications on some of these initiatives on daily lives in
2 our public schools.

3 MS. KENNETT: I just want to -- and perhaps it's
4 not the best division, but the way that we see protection
5 of the building is that everything that deal with the
6 physical environment. Like, there are things that the
7 physical environment, like drug use in school, it has --
8 the interaction with the environment if it's there is very
9 minimal. However with the school shootings it's a lot of
10 things that can be done from the physical part of the
11 building, and that's all what we deal with. Maybe it's a
12 very bad, you know, way to divide things, but if we happen
13 to work with the Department of Education that doesn't mean
14 that some of these other threats cannot be put into the
15 system either as awareness or something that needs to be
16 carefully watched or monitored.

17 MR. SRDANOVIC: May I add to this? In case
18 you're not familiar with this, the state of Florida
19 Education Department had arranged with the University of
20 Gainesville to create -- to arrange some sort of manual or
21 shall we say guidelines for designs of schools to combat
22 school violence. We use that as a resource of sorts, but
23 it was mostly concerned with the type of violence in
24 schools that you mentioned. We concentrated mostly on
25 school shootings, but bullying, other types of violence,

1 they have a whole book practically of advice on how to deal
2 with this from a physical perspective. So you may want to
3 look into that.

4 CHAIRMAN JACKSON: Could you repeat the source?

5 MR. SRDANOVIC: It's Florida Department of
6 Education, but the authors were Architecture School of the
7 University of Gainesville in Florida.

8 MR. SMILOWITZ: I see this just as another form
9 of all-hazards or multi-hazard approach. We're just
10 expanding the definition of hazards, and that's perfectly
11 compatible with this document.

12 MS. KENNETT: Yes, yes, and again, like, you
13 know, school bullying, drugs, maybe the relationship with
14 the physical environment is minimum, but it should be
15 mentioned as one of the threats.

16 COMMISSIONER CHIVINSKI: Hi Mila, how are you?

17 MS. KENNETT: Hi.

18 COMMISSIONER CHIVINSKI: You know, in the packet,
19 and I read the 317-page report. I got that in an email the
20 other night. You know, it states that building codes do
21 not address protective design for blast loads, toxic
22 releases and school shootings, and prior to lunch, we spoke
23 quite a bit about that with the previous group. In your
24 opinion, should codes be changed to reflect any of those
25 hazards?

1 MS. KENNETT: The codes do reflect that, but the
2 way they reflect that right now is for life safety, and
3 it's under ASC7 most of them. He is the structural
4 engineer, but don't get too hyper about that. But anyway,
5 you know, they -- we have codes for those, and those codes
6 are adopted, you know, by state and locally. But what the
7 program that I'm heading, the name is High-Performance
8 Resiliency Program, what we propose is that for those
9 critical infrastructure, and I consider school one, in a
10 volunteer basis, the schools kind of design for higher
11 performance because -- I don't know if it would make sense
12 budget-wise, nation-wise to say all the schools have to be
13 built, I don't know, for all these hazards at this
14 particular level, but schools are continuously being
15 rehabilitated. You're always continually adding a
16 classroom. You're continuously doing some kind of work in
17 school.

18 COMMISSIONER CHIVINSKI: True, but I know you
19 have some thoughts. For instance, I was absolutely
20 horrified when I read about Beslan in Russia. I was
21 unaware of the extent of that tragedy, and you had
22 previously mentioned about the fact that some people, you
23 know, faculty and students were able to save their lives by
24 jumping from windows, and that's something we shouldn't
25 ever take away. So I would assume we should have windows

1 that -- you would think that we should have windows that
2 open. So I was curious if you have any thoughts of any
3 codes that might benefit all.

4 MS. KENNETT: Well, this is what I said, you
5 know, I make it always a difference and this perhaps where
6 I come from in the sense of professionally, there is codes
7 and they have provisions. And we have put a set of
8 provisions in DHS like this book, and we make
9 recommendations, very specific recommendations, which
10 should be adopted on a volunteer basis, I believe. Maybe
11 there are some places where open windows would not work for
12 many reasons, and this is why I said it should be a case by
13 case.

14 But changing the code, I'm not talking about
15 that. I'm talking about us as a school put a moding
16 (phonetic) and more higher performance for your building,
17 and understanding the safety cannot be something that after
18 the school is done you start thinking about it, but it
19 should be part of the process of design. You understand
20 the safety. You get a good structural engineer. You get a
21 good architect to think about those things in the moment,
22 either that the school is rehabilitated or the school is
23 designed for the first time.

24 COMMISSIONER CHIVINSKI: Last question. Near the
25 back, there's a chart with -- I believe it's deterrents, I

1 forget. There's five parts to it. Give me a second.
2 Deterrents, detection, delay, response investigation,
3 consequences.

4 In those designs, those voluntary designs you're
5 referring to, where do you think most emphasis should go?

6 MS. KENNETT: Most what?

7 COMMISSIONER CHIVINSKI: Most emphasis.

8 MS. KENNETT: Well, I would say -- this is -- I
9 would say delay or redeem the consequences, something
10 before the consequences. The pattern that we use, this is
11 something that comes pretty much by -- it's adopted by a
12 lot of law enforcement, but the way that I see is that
13 mitigations or protective measures should be taken either
14 at the beginning of a design or after something has
15 happened and you want to rebuild that, you should integrate
16 mitigation measures. That's the point. It's several
17 points in your design -- the way you design. You either
18 retrofit with good safety measures or you start a new
19 building with new safety measures.

20 COMMISSIONER CHIVINSKI: Thank you.

21 COMMISSIONER SULLIVAN: With all the studies
22 you've done, and I know there hasn't been a lot of these
23 incidents to develop a good database as the Secret Service
24 says, but knowing budgets are limited, is there a threshold
25 level of things that you would recommend that should

1 absolutely be done versus other things. People talk about
2 bullet-proof glass. We talk about security doors, cameras.
3 Is there a baseline that you would recommend that should be
4 done as an opening for school security versus all of the
5 other things in the universe that we talk about?

6 MS. KENNETT: I think I mentioned some of them.
7 The ones that I extracted the manual was the ones that I
8 believe they are more important, but in the end, I think it
9 should be a case by case because let me just put -- let me
10 just give you an example. You just had this shooting here
11 that like the whole nation -- it moved the whole nation,
12 but tomorrow we have something in California, an earthquake
13 in California, and that's why I believe that it should be
14 -- when you do this design, it should be an all-hazard
15 design, and there's no measure that is more important than
16 others. It depends on the school and the priorities, and
17 what they think -- believe their threat is going to be.

18 And in terms of which vulnerability measures,
19 that's why we recommending so strongly to do a risk
20 assessment because through the risk assessment, you will be
21 able to determine in an existing school what are your
22 priorities because right now I could say, hey, put doors,
23 put this and that, but if you just take your school and
24 look at it and run a risk assessment, it will show you
25 where your highest vulnerability are. And then you know --

1 and then the whole process allows you to do mitigation
2 measures that are cost-effective because sometimes you
3 could have like let's say you have -- you could have -- to
4 protect a perimeter, you could have guards, let's say.
5 Well, guards, you have to pay guards whatever for the, you
6 know, for the external operation of the school, but if you
7 change the lobby and you put some secondary doors after the
8 receptionist, and you were able to put some doors that
9 isolate the classrooms, that costs you -- it has a cost in
10 the beginning but that's a one-time cost.

11 So again, you have to -- and that's why the risk
12 assessment helps you. Do you want guards? We are not
13 against guards, but how much is that going to cost you over
14 the entire operation, and you do something physical to the
15 building, how much is that going to cost you versus, you
16 know, one over the other, and that's what the process of
17 risk assessment really helps you to do.

18 COMMISSIONER SCHONFELD: I just had two comments.
19 One is I understand that the perspective that you're taking
20 or that FEMA has taken in this report, has been more
21 narrowly focused on what the building can do to deal with
22 external threats, but -- and we can say broaden it so it's
23 all-hazards, but the reality is that some of the structural
24 changes for one hazard may actually be worse for the other.

25 And so just as an example, in some of the

1 structural modifications that you might make or design that
2 you might make for the built environment to cut down on
3 gang issues or violence among students might be to not have
4 doors onto your bathrooms so that you have more curved
5 entranceways. So there is no physical door, no door that
6 could be locked. Nothing that could then trap other
7 students in to be victimized by other students, and that
8 tends to create an environment where there is less
9 victimization that would occur in those spaces. But if
10 you're trying to -- if you're trying to have safe rooms,
11 and you're trying to have places where armed intruders
12 can't get in, you want to have those doors locked.

13 So I think the issues is part of what we have to
14 sort out as a group is how are we going -- what's the sweet
15 spot? How are we going to balance those different issues,
16 and at the very least, what I would suggest is as the group
17 this morning have committed, and I've now made it a
18 commitment, but have committed to putting together some
19 practice guidelines of structural changes that can be made
20 to schools at a minimum to render them more safe, that you
21 should probably be looking at them as well and giving us
22 some feedback whether their perspective should be at least
23 thought about being more balanced with some of the
24 perspective that you've brought.

25 I think it's going to be hard to harmonize the

1 two documents, but at the very least we should highlight
2 where the potential differences are so that some reasoned
3 decisions can be made about how to do that.

4 MS. KENNETT: Have you seen the Appendix F in
5 that book?

6 COMMISSIONER SCHONFELD: No, I have not seen
7 that.

8 MS. KENNETT: Please take a look because that was
9 prepared specific for all the problems that schools may
10 have. It's -- those that have the book, it starts --

11 COMMISSIONER SCHONFELD: I guess the reason I'm
12 suggesting this is I think it will be very confusing to
13 schools --

14 MS. KENNETT: The checklist.

15 COMMISSIONER SCHONFELD: -- if they're provided
16 two different documents that say the opposite of what they
17 should do to keep kids safe, and I find whenever there is
18 that conflict or confusion without some reasoned discussion
19 of how to balance it that it ends up that people do
20 nothing.

21 And so I think, you know, to the extent that we
22 can help them think through if gang issues is more of a
23 problem within your community --

24 MS. KENNETT: Exactly.

25 COMMISSIONER SCHONFELD: -- you may need to

1 consider these structural issues, but understand that if
2 you're looking to protect or harden your school from
3 outside intruders that you would need more of this
4 approach.

5 The other thing which I'm going to say is just
6 something for the commission to think about. When I was
7 serving on the National Commission on Children and
8 Disasters, we did bring up the point that schools stand the
9 potential of being soft targets for terrorist attacks, and
10 we have been fortunate that we have not had an incident
11 such as Beslan, but I think as a group we have to decide
12 are our recommendations going to be thinking about how we
13 harden schools as potential targets for terrorist attacks,
14 because that would require a very different approach.

15 And I don't know that our country is ready for
16 that yet, or wishes to take that approach. And I don't --
17 I'm not saying that I suggest it, but I think when you use
18 the example of Beslan and what worked in Beslan or what
19 didn't work, wouldn't translate to what we would want to do
20 here unless we make a conscious decision that we're trying
21 to harden schools. Because from my perspective, when I
22 hear windows that can open, I think children falling out of
23 them. I don't think of them escaping a terrorist. So I
24 think you have to --

25 MS. KENNETT: Or a shooter. Or a shooter.

1 COMMISSIONER SCHONFELD: Or a shooter. But I
2 think more the number of kids that fall out of windows, and
3 that it's been a major public health intervention --

4 MS. KENNETT: I understand.

5 COMMISSIONER SCHONFELD: -- to put safety guards
6 on windows so that they don't open so children don't fall
7 out of them. And so I think we're going to, you know,
8 there's trade-offs is what I'm saying.

9 MS. KENNETT: Of course.

10 COMMISSIONER SCHONFELD: And I'm not asking you
11 -- I think those decisions are very difficult, but I think
12 it's something that our group is going to have to struggle
13 with because we can't make recommendations that say we have
14 to go for all-hazards when we know we're going to have to
15 balance one hazard against another.

16 MS. KENNETT: But a mass of the students got
17 saved in Columbine because they jumped from the windows,
18 and that's a fact.

19 MR. SMILOWITZ: You know, I think I tried to
20 explain earlier when I gave my two-minute statement is that
21 every design process involves at some point -- should
22 involve at some point a meeting of the stakeholders, the
23 design professionals, the security consultants, law
24 enforcement if that's part of that group, to understand
25 what's best for that facility, and that's where that

1 balancing act takes place. Obviously, the budget has a
2 huge influence over that decision process, but it's an
3 informed decision.

4 So I think the purpose of this document and the
5 risk assessment is just to inform the group. It informs
6 them, and if there are other issues such as the concern for
7 children falling out of the windows, et cetera, that's part
8 of that decision-making process.

9 MS. KENNETT: Yeah.

10 MR. SMILOWITZ: And that's part of the balancing
11 act.

12 COMMISSIONER SCHONFELD: The only caution that I
13 would give, and this, again, is more to our group, is that
14 those -- involvement of stakeholders is hard to do when
15 you're talking about school systems because that's the
16 whole population of the community, and that often the
17 stakeholders that come forward have certain concerns or
18 worries that may be heightened based on recent events and
19 therefore might have a disproportionate impact on the
20 discussion. And it is very hard for a board of education
21 or a superintendent to make decision that may appear
22 balanced when you're not taking into account the passion or
23 the concern or the worries of -- very legitimate worries of
24 family members who are faced with recent events.

25 And so that's -- I think that's what our group

1 has to do is to try and help provide a more balanced
2 recommendation because what I hear from people who are
3 responding to crisis events, they're saying, well, I know
4 it's not the right decision, but what am I going to say to
5 the victim's families? What am I going to say to this
6 group that's terrified about this particular risk, even
7 though I know it or believe it to be low in probability, it
8 is very high right now in saliency given the recent events.

9 So I hope we can help balance that, but that's
10 hard to do.

11 MS. KENNETT: I really -- the only thing I have
12 to say is that I really encourage you to look at Appendix F
13 before you're writing your document, and feel free to use
14 anything that is in this manual and the Appendix F because
15 we have worked very hard with the Department of Education
16 to put together that list, but it's really geared to the
17 physicality. So that list can be expanded into other
18 areas, but at least for the physical part of the building,
19 it's a good, good start.

20 CHAIRMAN JACKSON: Thank you, and one thing that
21 we've heard, or one thing that has been stated over and
22 over is that each school is unique, and each school or
23 community must go through its own process. I think by
24 having a tool, and we talked a little bit about tools this
25 morning, and you have provided some concrete ones here,

1 it's my hope that the use of the tools can help moderate
2 the tone of the discussion. If everyone is utilizing
3 framework, it allows some of the emotion to be drawn out of
4 it, and allow fact and logic and an understanding of how
5 the community actually functions, as to how you think it
6 functions in a moment of panic can be helpful.

7 MS. KENNETT: I just want to say briefly that I
8 worked -- before I worked with the government, I was
9 working with the Robank (phonetic), and I went to admission
10 in the (inaudible), and I was working with the community,
11 and the community was an oil spill. And everybody thought
12 that the main problem was oil because that's something that
13 happened in that community, and what really the risk
14 assessment helped the community to understand that that was
15 just a factor in the number of things that could happen to
16 that community, and that's what -- and I am agreeing with
17 Mr. Jackson that what he's saying is that a tool like that
18 that is not -- it's a tool. It's not a person. It can
19 make a good start for decision-making because what happens
20 is it doesn't have any passions. It doesn't have no
21 interest. It will show some numbers, and it will say, hey,
22 vulnerabilities are here. If you want to reduce it, this
23 is how to do it.

24 Now, it's up to the community and to the
25 decision-makers to make those decisions. But at least you

1 know much you deviated from the right decisions. At least
2 that helps you.

3 CHAIRMAN JACKSON: Thank you. I think we have
4 time for one more. Mr. Sandford?

5 COMMISSIONER SANDFORD: Just kind of a practical
6 implementation question. You talk about having this
7 evaluation tool. How willing is Homeland Security to
8 coming to the State of Connecticut if we wanted to have
9 workshops to bring our superintendents, law enforcement,
10 and other individuals to the table, show them how the tool
11 works, and motivate them to go home and use it. I think
12 just having it on the internet saying, hey, this is great;
13 you want to try this; isn't going to work. I think we need
14 them to the table, and the tool is really that good, and we
15 really want them to use it, is Homeland Security or I guess
16 your other arm, FEMA, the training arm, willing to come
17 into the State of Connecticut and offer us that assistance
18 to reach our superintendents?

19 MS. KENNETT: This is what I can promise. I
20 could promise that I could come here with my team and show
21 you how the tool works -- and the current tool, how it
22 works, and we could bring even the person that is doing the
23 assessments for the Bureau of Indian Affairs that is
24 assessing schools, how he's doing it.

25 Now, what I'm proposing is a little bit

1 different. What I'm proposing is to take the actual tool
2 and include what is in our checklist, plus all the other
3 things that you are concerned and put it together so that
4 we have in one unique place all the concerns about school.
5 But a demo of the current tool and how the Bureau of Indian
6 Affairs doing the assessment, I could commit to that.
7 That's something because it's my program. To do the tool
8 that I have in mind working with you and Department of
9 Education and DHS, that is something that I need -- you
10 guys to -- the commission needs to recommend so that I
11 could get the funding and see if they are willing, because
12 in reality, DHS is going through this budget crisis, but
13 they are receptive to all recommendations. I know the
14 secretary, the under-secretary will be receptive to
15 recommendations.

16 CHAIRMAN JACKSON: Thank you. We really
17 appreciate you taking the time to join us, and we deeply
18 appreciate your time and your thoughtful remarks. Thank
19 you all.

20 MS. KENNETT: Let me know anything you need, and
21 I just want to clarify something. The tool that we have in
22 the internet is not the one that the Indian Affairs is
23 using. That one is open source for everybody. The one
24 that he's using is the one that we created that is FOUO,
25 that is for federal buildings.

1 CHAIRMAN JACKSON: Thank you. We will have one
2 more presentation this afternoon and then some discussion.
3 Do we want to move into the presentation or take a quick
4 break?

5 Take five?

6 We'll take five, allow Mr. Mahoney to set up, and
7 we will reconvene at 2:30.

8 (Recess.)

9 CHAIRMAN JACKSON: All right, friends, it's time
10 to reconvene. We've heard a bit this morning, and Mr.
11 Mahoney was here to hear the prior testimony. So I'm sure
12 that he can comment on some of the things that he's heard,
13 but we have heard a lot of reference to security
14 consultants as a part of the design team. We are fortunate
15 to have with us just one such expert, who also happens to
16 have a significant law enforcement background.

17 So Mr. Mahoney, we welcome you, and we thank you
18 for taking the time to join us today. The floor is yours,
19 sir.

20 MR. MAHONEY: Thank you, Mr. Jackson.

21 Good afternoon, everyone. I'm informed that not
22 everybody on the panel has had an opportunity to look into
23 my CV, and so possibly, I'll just spend a moment over my
24 background here to give you an idea of who it is that's
25 sitting up here.

1 I started teaching in 1968 while I was working on
2 my Master's in education, and finishing that, I then moved
3 into high school teaching, and in total I did about ten
4 years as a classroom teacher before I left teaching, and I
5 went into the FBI as a special agent. I was there for 24
6 years and some of the work I did was violent crime,
7 organized crime, drugs, terrorism, those sorts of things.
8 But for a large part of my career, I was assigned to
9 special operations. And in fact, when I was in FBI
10 Headquarters in Washington, I was the national program
11 manager for all of the FBI special operations groups.

12 Another one of my assignments is that I was the
13 assistant legal attaché for terrorism in one of our
14 embassies overseas. On September 11th, I was in the World
15 Trade Center that morning. I was there for both collapses,
16 and I led an FBI search team into the buildings between
17 collapses. For months afterwards, I was a supervisor in
18 the FBI command post and recovery center.

19 Towards the end of my career, I held a position
20 of assistant special agent in charge in New York, and I
21 retired from the Bureau in 2002.

22 Thereafter, I became deeply involved as a team
23 leader in a program developed by the office of domestic
24 preparedness to create a protocol and algorithm for
25 determining relative risk for critical infrastructures from

1 terrorism and weapons of mass destruction. So all the risk
2 assessment business you have heard about today, I was there
3 at the creation of it, if you will.

4 Thereafter, I went to work for the Port Authority
5 of New York and New Jersey as the general manager for
6 security. And there I oversaw all the risk assessment,
7 security mitigation needs, security planning, et cetera,
8 for the billions of dollars worth of critical
9 infrastructures owned and operated by the Port Authority,
10 and I know you're aware that that includes the New York
11 airports, bridges and tunnels, container ports, bus
12 terminals, et cetera, and also the World Trade Center
13 itself.

14 While I was there, I was also detailed to the
15 governor's office to manage the writing of the master
16 security plan for the redevelopment of the World Trade
17 Center, and also during that time I went to the Naval Post
18 Graduate School and obtained another graduate degree in
19 homeland security and national defense.

20 I left the Port Authority in 2007 and went back
21 to consulting and teaching and so forth in security
22 matters. While doing all of these things, and in some
23 cases a little bit prior to it, I was also a member of the
24 former Fire Emergency Bureau of the New York City Fire
25 Department. I was one of the first emergency medical

1 technicians in New York State. I've been the commanding
2 officer of a rescue squad, and more recently, I attended
3 the New York City Fire Department Battalion Chiefs Command
4 Course. I am also, and have been for the last eleven
5 years, a certified New York State school violence
6 prevention instructor.

7 So as you hear, I have by design or by fate had
8 the experience of being associated with nearly the full
9 range of expertise and disciplines that you have cogently
10 collected to focus on the continuing problem and horror of
11 school violence. I'm not going to take your time to add to
12 the observations and advice you've received from the
13 experts in each of those disciplines, but rather I prefer
14 to address the inevitable follow-up question. What do we
15 do with all this information?

16 For many decades, we've witnessed death and
17 injury taking place in our schools, our workplaces, places
18 of public assembly, et cetera, either by accident, force of
19 nature, or regrettably, through intentional violence. In
20 our schools, it's occurred in institutions as diverse as
21 leading universities and also one-room Amish schoolhouses.

22 Sandy Hook Elementary School is, and certainly
23 always will be, one of those remembered for its magnitude
24 and unspeakable horror. We may be certain though that for
25 the faculty, staff, other students, responders, injured

1 survivors, and most assuredly, the families of the victims,
2 that this life-altering event will not only be remembered,
3 but it will be relived every day. For those of us who were
4 spared personal involvement were nonetheless stirred to
5 contribute in some way to find the cause and the cure.

6 To accomplish my objective today, which is to
7 explain how all the advice you will receive is pulled
8 together in a way that makes it useful and practical to
9 bring security to our schools, I considered a number of
10 ways to assist you in understanding the range and scope of
11 what a security plan is, and what writing such a plan
12 entails.

13 For the purpose of this presentation, a
14 definition of a security plan would be, a security plan is
15 the codifying of all known security needs, conditions,
16 capabilities, functions and operations into a comprehensive
17 system, which is capable of adequately protecting that
18 which is considered valuable. The actual writing of a plan
19 requires taking all the separate pertinent problems and
20 solutions necessary to address them, and making them work
21 together to achieve the desired level of security. None of
22 those problems or solutions can be ignored. Each must be
23 considered, evaluated and tested, and each must then be
24 compared and contrasted to each of the other problems and
25 solutions that are known or need to be tested. This is the

1 winnowing process by which a comprehensive, effective and
2 efficient security plan evolves. In order to facilitate
3 this I would therefore suggest that the commission should
4 consider defining what you mean by school security and
5 describe what level of security you seek.

6 To just apply -- I'm sorry. Instead of
7 subjecting you to some litany of "do this" in response to
8 the recommendations you hear, I thought it best to take a
9 different approach. Imagine yourself as the school
10 administrator responsible for the safety of your school
11 staff and students. Then imagine yourself in a school
12 security crisis needing the knowledge, the things, the
13 people, the abilities, et cetera, to help you overcome that
14 crisis. At the conclusion of my remarks, ask yourself if,
15 as that imagined administrator, it appears to you that the
16 things I have said would have been useful for you to know
17 and/or have had in place successfully to successfully
18 maintain school security. Hopefully, that should provide
19 you with a sense of both the complexity and the importance
20 of security plans.

21 H.L. Mencken said there is always a well-known
22 solution to every human problem, neat, plausible and wrong.
23 Without fail, after a rampage killing, we hear the voices
24 offering solutions. Sometimes those voices are shrill,
25 sometimes emotional, sometimes heartfelt and sincere, and

1 some even get to see their solutions applied, and yet the
2 death continues. Still, we're told, to just apply more of
3 this or permit less of that, and yet the death continues.
4 We are urged to escalate our commitment to empirically
5 failed solutions on the hope that we will reach some
6 unknowable point of sufficiency in the future resulting in
7 success and security, and yet the death continues.

8 I would suggest to you that the reason it
9 continues is because Mencken was correct. Often the
10 proffered solutions are neat, plausible and wrong. After
11 all, if they were right, the deaths would not continue.

12 In decades of responding to other people's
13 problems and emergencies, and a few of my own, I developed
14 an awareness of these abhorrent events, their causes, their
15 effects, and appropriate mitigating strategies. As someone
16 who started out as a teacher and ended up developing ways
17 to counter terrorism, I learned to gather in the lessons I
18 had heard and experienced and how those lessons have turned
19 into a security plan. I've been privileged to work with
20 both brilliant minds and experienced practitioners in some
21 of the most contentious and overwhelming emergencies and
22 crisis events in our memory. The overarching lesson from
23 all of the events is that causes and consequences of them
24 are never neat and plausible. Similarly, the
25 understanding, preparedness, management response and the

1 recovery from them is likewise never neat and plausible.

2 Inevitably it is magnitudes more complex and untidy.

3 I would urge you not to seek a solution to a
4 problem, but to seek to address a spectrum of problems.

5 While your mandate derives from school violence, to frame
6 your thinking within the context of violence alone can lead
7 to a propensity to identify a single solution for a single
8 problem, and that would be neat and plausible.

9 From hearing the various subject matter experts
10 and their individual disciplines, I'm sure you've been able
11 to draw valuable pieces of information. When you have
12 finished your hearings, you will discover that you have an
13 array of solutions to a family of problems, all of which we
14 collectively call violence.

15 Soon, you become aware that some problems are
16 larger than others, some more consequential than others,
17 and I'm sorry. I can't simplify that for you. They are
18 all credible issues that must be addressed. In the face of
19 that fact, I would hope that your horizons are expanded
20 from combating violence alone to creating safer schools
21 across the board.

22 Violence takes many forms, and they're not a new
23 phenomenon. The parents who lost their children in the
24 Bath Michigan consolidated school bombing in 1927, the fire
25 at Our Lady of Angel School in Chicago in 1958 or the

1 parents who lost their children to the sudden tornado that
2 struck the East Coldenham Elementary School just down the
3 road, down 84 a bit in Newburgh, New York back in 1989 have
4 been no less emotionally destroyed than those recently
5 affected in Newtown.

6 The information you gather will be eminently
7 useful for security planning across all these conditions
8 and others in need of your review. I suggest this not to
9 make your task more difficult, but just as federal and
10 state governments have adjusted their approach to emergency
11 planning from that of managing individual problems
12 separately to now addressing them under the umbrella of
13 all-hazards, we should do this also. Not because it's more
14 convenient, but because who would argue that we should
15 address violence alone at the expense of having overall
16 safer schools?

17 Remember, it is not just a stranger who suddenly
18 arrives at the school to harm our children and their
19 teachers as we've recently seen, but it is actually more
20 common to have the individual who would do harm evolve from
21 within the school population itself. A solution designed
22 to keep the stranger from entering the school may be
23 completely ineffectual to the one who is already in the
24 school, and indeed, is supposed to be in the school.

25 As I said, it's an array of problems requiring an

1 array of solutions. I, therefore, suggest that the
2 commission should consider understanding school violence
3 within the context of a range of school security issues and
4 addressing it as such. This certainly does not mean dozens
5 of different plans to address this universe of problems.
6 That would be unmanageable, cumbersome and ineffectual in a
7 fast-moving crisis.

8 For example, I once encountered a principal who
9 proudly showed me his emergency action plan in a three-ring
10 binder that had 26 separate tabs, one tab for guidance in
11 each emergency he could think of. In his mind, he was
12 fully prepared until I asked him what he was going to do if
13 he was unable to get to his book when the emergency
14 erupted. The thought had never crossed his mind. His
15 cognitive failure was not entirely his fault. He had
16 utterly no experience in writing security plans with
17 effective solutions, let alone anything to do with crisis
18 management itself.

19 Just like that principal, you are faced with how
20 to codify what you have heard into a workable, functioning
21 solution. That is the true and formidable task facing you.
22 Permit me to delineate the categories of problems you will
23 have to contend with.

24 Broadly, they fall into four areas. One, being
25 aware of the causes and nature of threats; two, preventing

1 or deterring the threats; three, managing the crisis; and
2 four, recovering from the effects of the security event.
3 They are all part of the security plan.

4 To successfully accomplish any one of these
5 categories is a major undertaking in itself. To write a
6 plan that has all of them functioning together
7 concurrently, sequentially and coherently while under a
8 life and death level of stress is nothing less than
9 Homeric. If this is essentially the task that has been
10 assigned to this commission, each of the experts you have
11 heard has provided information that pertains to and can be
12 consequential in one or more of these categories. It's a
13 spectrum of problems, interrelated and complex problems,
14 yes. But if I may, the very selection of the members of
15 this commission, given your diverse backgrounds, serves as
16 a strong statement that the governor recognizes that
17 neither the cause, the issues, nor the solutions to school
18 violence is singular or will be neat and plausible.

19 At the end of these hearings you will know the
20 ingredients, but you won't have the recipe. That will take
21 substantially more effort to write a master plan that
22 weaves all the different threads you've gathered into a
23 protective security vest for our schools. It will be
24 necessary to produce a generic master plan template that
25 can be passed to all of our communities where it must be

1 customized to fit the circumstances at each individual
2 school building. Therefore, I suggest the commission
3 should consider creating a subcommittee of subject matter
4 experts to write a draft school security plan drawn from
5 the information presented before the commission, and that
6 the draft plan template be designed to modified as
7 individual school situations require.

8 But why is security plan customizing necessary?
9 Research has shown that school violence and shootings are
10 not, in fact, a school problem. They are a community
11 problem, and they must be addressed at the community level.
12 It is best if some, if not all, of the cooperating
13 participants in the plan writing for school violence are
14 educated and/or experienced in writing emergency plans.
15 Hence, the community involvement includes the first
16 responders, but this also means that school board members,
17 administrators and educators be familiar with this process.
18 Again, it means that other subject matter experts and
19 community leaders participate. I, therefore, suggest that
20 the commission should consider identifying those groups in
21 areas of expertise that will be included in writing school
22 security plans at the school district and building levels.

23 Those plan categories I mentioned a moment ago
24 have a subset of issues contained in each of them. The
25 first category, as you'll recall, was being aware of the

1 causes and nature of threats. Its subsets are, A, threats
2 internal to the school. That is students and/or staff in
3 the school who may devolve into violent behavior or
4 conditions that are life-threatening; and B, threats
5 external to the school that may suddenly be present at the
6 building without warning, which is what we saw at Newtown.

7 Let's explore some of the internal threat
8 possibilities first. Is there a student or staff member
9 who is living with the co-occurrence of issues that
10 research has revealed to be potential indicators of violent
11 behavior? Is there a system in place for the school to
12 know that? And even if there were, does the staff know how
13 to recognize them? Is there a process in place for
14 reporting and responding to them?

15 Is a student or staff member involved in forms of
16 risky behaviors outside school, which has brought them to
17 the attention of local law enforcement or social services?
18 Has the school been advised of those behaviors that could
19 be potentially dangerous? And do you think school contact
20 with those services would be beneficial?

21 Is a child faced with stressors outside that they
22 might bring into the school such as separation from or loss
23 of a parent, criminality at home, gang or drug activity in
24 the community, or an incessant drumbeat of explicit sex,
25 drugs and particularly, violence, provided by the media?

1 Does the staff know when and how to interdict behaviors
2 that can put the child on a trajectory towards violence?
3 Do they know what is an appropriate response and when and
4 how should it be applied?

5 Does the state education curriculum include
6 instruction that promotes behaviors that lead students not
7 to choose violence such as civility, morality and
8 responsible behavior? Is there an enforced code of
9 conduct? Are teachers and staff presenting themselves as
10 role models, and are they approachable by children who need
11 help outside of academic issues alone? Or do we think that
12 is a function for educators? And are they equipped to do
13 it?

14 Being able to answer these questions and having
15 the structures in place to address them are just some of
16 the factors that contribute towards an awareness of threat,
17 which is the first step in the prevention of violence. I,
18 therefore, suggest that the commission should consider
19 recommending that the State Department of Education
20 undertake a study into the research of the causes of child
21 and adolescent violence and abhorrent behavior, that the
22 State Department of Education establish training programs
23 for educators specifically designed to recognize, identify
24 and respond to those forms of behavior, and the State
25 Department of education develop a curriculum that teaches

1 students personal values that reinforce acceptable
2 behavior.

3 Now, let us briefly consider external threats.
4 If we choose to follow the all-hazards approach, we must
5 look 360 degrees around the school for the possible sources
6 of threats. Has the State Office of Emergency Management
7 produced school-oriented maps that identify a recognized
8 range of potential hazards in reasonable proximity to the
9 school? Are there pipelines, highways, waterways, rail
10 lines, ground condition storage tanks, et cetera, where
11 accidents or natural occurrences could constitute a threat
12 to the school? When these events happen, do the emergency
13 services response protocols, including notifying the school
14 with specific information and instructions of what they
15 should do, and would the school be capable of carrying them
16 out?

17 Are the school bus parking and storage locations
18 secure 24 hours a day, or do we not even think of the bus
19 as an extension of the school, and therefore, not a
20 security problem?

21 Is the school neighborhood a location of frequent
22 violence that can spill over into the school grounds or has
23 school security thinking become insular? Is law
24 enforcement aware of individuals or groups whose
25 circumstances might prove threatening to the schools, and

1 should that be communicated to the school? Do students who
2 are aware of a threat have an immediate and secure way of
3 communicating that to school officials?

4 I, therefore, suggest that the commission should
5 consider recommending that the State Office of Emergency
6 Management have the resources, and on an updated basis,
7 produce reports identifying locations and types of
8 potential hazard for each specific school district in the
9 state and recommend that school security plans should be
10 updated annually relative to the reports issued by the
11 State Office of Emergency Management, and that the State
12 Department of Education establish guidelines for secure
13 communication methods for students and others to report
14 potential threats.

15 The next category of planning is preventing or
16 deterring threats, and I must tell you that this is one of
17 the most complex, difficult, long-term and expensive parts
18 of creating security, but first it is pivotal that we
19 understand the difference between threat and risk, whether
20 by accident, nature or individuals. Physically, there can
21 be a threat to that which you want to protect, but if what
22 you want to protect is not vulnerable to that threat, then
23 you're not at any risk from it. This is because risk is a
24 product of vulnerability to a threat and the consequence
25 that results.

1 Reducing risk is at the heart of creating
2 security. Risk is reduce by eliminating the threat or
3 reducing vulnerability and/or consequence. Schools can
4 only eliminate threats and prevent attacks from those
5 threats which evolve internally through educating and
6 convincing the student who threatens not to choose
7 violence. A threat can be considered eliminated when there
8 is no longer any intention or capability to harm, but just
9 to reduce capability to harm does not necessarily remove
10 the threat.

11 Presumably, we now understand the nature of the
12 threats. Next we must decide what we want to protect from
13 those threats and identify them in a hierarchy of
14 importance. Naturally, our children would be at the top of
15 any such list, but also included would be the building
16 itself, the staff, the grounds, the classrooms,
17 laboratories, power supplies, buses, water supplies, et
18 cetera. The types of mitigations used to reduce risks in
19 all of them are subsets of this category and include both
20 physical and operational security mitigations. While
21 there's a direct relationship between both of them, I'll
22 mention them separately.

23 Since a school itself has no means of actually
24 eliminating external threats, those external threats cannot
25 be prevented. They can only be deterred by the school's

1 security procedures. For example, in Newtown, the moment
2 the rampage commenced in the attacker's own home, the
3 attack was underway. It could no longer be prevented. If
4 the school is the attacker's next intended target in an
5 ongoing attack, in most cases of external threats of this
6 sort the best the school could accomplish would be to deter
7 the attacker. But when a violent individual can approach
8 unimpeded to the very doorway of the school as things are
9 now, our deterrence potential is minimal. Deterrence is
10 largely achieved through presenting a security profile that
11 the attacker realizes he cannot overcome and causes him to
12 select a softer target. A school district's security plans
13 should not inadvertently create their own soft targets by
14 site hardening one of their schools to the detriment of
15 another. A comprehensive school district and school
16 building interlocking security plan will prevent this --
17 just this sort of thing from occurring.

18 I, therefore, suggest that the commission should
19 consider recommending that security plans be developed at
20 both the school district and school building levels, and
21 that the school district devise both short-term and multi-
22 year plans that coordinate the level of school security
23 development both across the district and between individual
24 schools. Such security plans will require an initial risk
25 assessment of the district in each school building. Once

1 the vulnerabilities are revealed, the assessment will also
2 identify the corrective mitigations that are required to
3 lower the risk. Many of them will be basic such as adding
4 a light or installing a lock, but others will be difficult,
5 time consuming and expensive. That's because these
6 buildings were never designed in a way to deter an attack,
7 and the school's risk assessment is largely reflective of
8 the building's ability to contribute to the security of the
9 occupants.

10 The mitigations and subsequent security
11 operational plan may include CCTV, public address system
12 improvements, installing first responder radio repeaters,
13 the removal of locations where explosives could be placed,
14 door control warning systems, emergency security hall
15 barriers, fences, bollards or none or some of the above.
16 The assessment could show that the most productive action
17 to reduce risk would be additional in-depth emergency
18 awareness and training for the staff in combination with
19 some of the above. Periodic updating of that analysis to
20 incorporate new threats and determine how installed
21 security mitigation measures have reduced the level of risk
22 should be done.

23 I, therefore, suggest that the commission should
24 consider recommending that school security plans should be
25 based on a relative risk assessment process specifically

1 designed for the evaluation of schools, and that the risk
2 assessment process periodically reassess the schools on a
3 cycle not to exceed three years.

4 For an example of mitigations derived without
5 benefit of a risk assessment, consider that many schools
6 have a security practice requiring visitors to check in at
7 the school office. This is not a security practice at all.
8 It requires strangers to enter the building so that the
9 staff can determine if they are someone they don't want in
10 the building. Once they're inside it's too late. Security
11 practice cannot be left to unprofessional assumptions or
12 intuition, and they certainly should not assume compliance
13 on the part of those who intend to harm. Security measures
14 that are effective only with the compliant individual fall
15 far short of the need. Hence, the risk assessment process
16 is required.

17 One of the main principles of genuine site
18 security is to push out the security parameters of the site
19 to a distance that permits enough time for awareness,
20 detection and interdiction of that threat. That is the
21 opposite of inviting them into the school. It's called
22 access control. In places where there is room to push out
23 the perimeter, it might be done with fences, barriers and
24 cameras. In other places, it might be done with secure
25 doors and windows. Regardless, security must be

1 universally and continuously applied, which may mean that
2 vehicles, including those containing parents dropping off
3 children, are no longer permitted the convenience of
4 immediate proximity to the school. This will be
5 inconvenient, but a good measure of how secure a place is
6 to measure how convenient it is. Invariably, they are
7 inversely proportional.

8 Conversely, internal physical security means
9 classrooms doors must have windows positioned so that they
10 cannot be broken and reached through to unlock and overcome
11 a lockdown. It means fire exit sign at floor level where
12 those crawling under the smoke can see them. It also means
13 training our children not to identify their classrooms as
14 Mrs. Jones's room or the fifth grade, but rather by the
15 room number that will have meaning to emergency dispatchers
16 and first responders. It means classroom numbers also
17 posted inside classrooms and positioned on the outside of
18 buildings so that first responders can quickly find the
19 location identified from the cell phone calls from those
20 who are trapped in those rooms.

21 But site hardening also means finding that
22 balance between the security expert who wants to make the
23 building as impenetrable to attack as possible, the fire
24 chief who doesn't want to be delayed by having to do
25 forcible entry during fire rescue efforts, and the

1 accessibility that complies with the Americans with
2 Disabilities Act.

3 Security mitigations require examining each
4 existing building for crime-proof entry through
5 environmental design issues that the architects I was
6 surprised didn't mention this morning, and designing and
7 citing all new security construction for security standards
8 that exceed basic building safety code requirements.
9 Security and safety are two different things. It may mean
10 legislation that establishes building security code
11 requirements for schools just as there are school building
12 safety codes.

13 I, therefore, suggest that the commission should
14 consider recommending that legislation be introduced that
15 establishes school security building codes, and that a
16 series of improvements designed to facilitate first
17 responder operations in schools be developed and
18 legislation be introduced that defines a period of time for
19 existing school buildings to be equipped with the
20 identified improvements.

21 Operational security as opposed to physical
22 security means ensuring that every member of the staff
23 considers security to be equal to education as a primary
24 responsibility and function. It means that the back door
25 of the kitchen is never wedged open because it's a hot day.

1 It means that teachers do not rearrange their classroom
2 furniture in ways that inadvertently creates barriers
3 between the students and the exits. It means establishing
4 layers of communications ability independent of the power
5 supply.

6 When the incident starts, then is not the time to
7 look up what you're expected to do or to search for the key
8 or the two-way radio or the flashlight. It's the time to
9 save the children, and time may not be a luxury that you
10 have. Undoubtedly, many of those children will be so
11 confused, frightened and disoriented that the drill they
12 did perfectly yesterday will be completely unknown to them
13 today or the practiced routes may be unavailable to them.

14 It is therefore imperative that the knowledge of
15 the plan requirements as well as the rehearsals and drills
16 be written with the reality and conducted with the
17 frequency so as to inculcate the required behavior into
18 every individual in the building. It means conducting
19 unannounced emergency drills also during lunch periods,
20 while the buses are loading in the afternoon or during
21 afterschool activities or whenever the known patterns of
22 evacuation or a lockdown might not be possible. It means
23 interrupting even those in regular drills to break up
24 normal patterns to test staff resourcefulness in achieving
25 their emergency objectives.

1 This is why faculty and staff preparedness means
2 that layers of alternatives should have already been
3 considered and tested to achieve the objective of the plan.
4 I've often asked teachers what is your job in an emergency
5 and been told that it is to evacuate the students.
6 Frequently, that's not the right answer. Their job is to
7 save the students. Evacuation may only be one of the means
8 available to them. They should have already considered and
9 planned for other alternatives.

10 I, therefore, suggest that the commission should
11 consider recommending an increase in the frequency and
12 types of school emergency drills conducted during the
13 school year and that prior announcing of all forms of
14 school emergency drills be prohibited.

15 The third category of the school's emergency plan
16 is actually one of the most critical. It is the crisis
17 management section, which is to say that there is a
18 security emergency underway in the school which is beyond a
19 routine condition. It is a situation that requires
20 activating the emergency plan. As a metaphor, it is akin
21 to sounding general quarters on board a navy ship.
22 Everyone within their school changes their mode of
23 practice, activities cease, and possibly outside assistance
24 is requested. No one in the building should wonder what
25 they're supposed to do. They should all only need to know

1 the nature of the emergency and respond according to plan
2 and practice for that emergency.

3 At this time, the principal or the designated,
4 responsible individual will need to -- particularly need to
5 maintain all forms of communication for instruction and
6 coordination issues. Cellular phones will not be fully
7 reliable, and the security communication center at the
8 school should be redundant precluding a single point of
9 failure condition in the event that the communication
10 center location cannot be accessed.

11 It should also be noted that the plan must, as
12 appropriate, include notification of the other schools in
13 the area so that they may take immediate precautions
14 against a similar incident and/or proceed with their
15 supportive roles such as providing space for evacuated
16 students, as an assembly location for parents or release of
17 their buses to the school under emergency for evacuation
18 purposes. Of course, continuous updating and coordinating
19 with arriving first responders and transfer of the
20 situation to their control according to the plan is a key
21 part of this section.

22 I must take a moment to mention another critical
23 factor that will occur. As word spreads throughout the
24 community and further, the phone lines of the school will
25 be inundated with incoming calls precluding their use for

1 emergency purposes. Additional lines or other technical
2 advances must be included as a mitigation and be in the
3 emergency plan to circumvent this issue. Similarly, the
4 parents and guardians of all the children will be arriving
5 on the scene and become a major issue for local law
6 enforcement to control who will already be fully occupied
7 by the situation inside the school. A well-conceived
8 master security plan will include prior distribution of
9 instructions for parents to follow in the event of a school
10 emergency and continuous updating of the parents throughout
11 the emergency period to reduce this major control
12 situation.

13 Clearly, this type of incident management is the
14 most intense and action-filled time in the plan's
15 application, and no amount of planning can ever fully
16 encompass all the potentials for harm, but even if a
17 specific event has not been planned for, many of the
18 response activities will be similar, familiar and
19 productive. It means having administrators trained and
20 certified in the National Incident Management System so
21 they can fully coordinate into the system used by the first
22 responders, and it also should be the way their plans are
23 written in that same format. It may mean placing caches or
24 first aid equipment in multiple locations in the school and
25 having staff know how to use that equipment, and it may

1 mean the state permitting emergency medical technicians or
2 other first responder training for teachers and staff who
3 are not otherwise members of emergency services.

4 I would, therefore, suggest that the commission
5 should consider recommending that the college curricula for
6 education majors at the bachelor and graduate levels
7 include a required credit course, possibly without charge,
8 for school security awareness, processes and best
9 practices, and that all school administrators be required
10 to be certified in the National Incident Management System,
11 and that all current school personnel be required to
12 receive instruction in school violence prevention and
13 emergency procedures, and that school administrators,
14 educators and personnel be considered in the same manner as
15 emergency services personnel to receive various forms of
16 state-approved emergency medical or responder training.

17 As I said previously, school violence is a
18 community problem. For many types of violence, the root
19 causes can be found outside of the school. Many of the
20 mental health sociologists and similar discipline experts
21 will provide you with that information, but during an
22 incident it also immediately becomes a problem for the
23 entire community. Clearly it is for the first responders,
24 emergency medical services, et al, but the entire ebb and
25 flow of the daily pattern of the community will be

1 disrupted, and that disruption will last long into the
2 recovery period, and sometimes long after it.

3 It is certain that the municipal government will
4 have a pivotal role to play in this crisis and in its
5 aftermath and numbers of community organizations may be
6 able to provide useful services. Therefore, writing the
7 school security plan must also include appropriate
8 authorities and representatives from the community,
9 including the parents.

10 I, therefore, suggest that the commission should
11 consider recommending that appropriate municipal
12 authorities be involved in the writing of school and
13 district school security plans.

14 The last category is the recovery phase. It is
15 clear when the crisis-management portion of a plan
16 commences, but the point at which it ends is far less so.
17 Crisis management can be seen as a continuous process of
18 regaining control of the school. The recovery phase is the
19 reestablishing of normal school routine. For the purpose
20 of discussion, let us agree that the crisis is over when
21 the threat is removed; the fire is extinguished; the fight
22 is over; the electricity is restored; or the individual is
23 in custody.

24 Recovery is the period when the lost are found;
25 the injured rescued and treated; and yes, the deceased

1 recovered. It is also when family members are assisted;
2 the media are addressed; and investigations begin. Some of
3 these needs, according to the plan, will be handled by
4 those who are not school officials, but who's abilities are
5 better-suited to such efforts. The school officials must
6 now be focused on the students and staff and seeing to
7 their needs, even if it's the minor incident that means
8 only to have them reenter after a few minutes and take an
9 accurate attendance. If it has been a major incident, it
10 still means getting a precise accounting of all students
11 and staff to determine the missing and locating them. It
12 means transporting many to an appropriate and pre-arranged
13 place; overseeing the reuniting of families; and assisting
14 the police in identifying those staff and students whom it
15 may be necessary to interview.

16 Recovery, of course, also requires seeing to the
17 psychological and social services need of all the students
18 and staff who may need it now or for an extended time. For
19 the community, this absolutely pertains to the first
20 responders also. If any areas of the building are
21 considered a crime scene, the school administration must
22 assist the police in securing the area for evidence, during
23 which time the school cannot return to normal function.
24 Damage to the school may require structural analysis and
25 repair. School furniture and equipment may also need

1 repair or replacement before the school can resume normal
2 operations.

3 If the incident has been particularly traumatic,
4 a program must be utilized to make the students and staff
5 feel safe and confident again about returning to the
6 building. In the event that legal processes ensue in the
7 aftermath of an incident, it should be recognized that
8 these conditions can last for years afterwards. This will
9 cause the school, the students and the staff to
10 continuously revisit the event, and again, confront the
11 consequences associated with it. People who have been
12 through this note that this can be an experience almost as
13 bad as the incident itself. Have no doubt of what I said
14 previously. These security crises can be life-changing
15 events. The security plan should have anticipated all
16 these conditions.

17 As I've been speaking, you probably found
18 yourself thinking, "I never thought of that" or "We don't
19 do that now" or as I first suggested, you became the
20 imaginary administrator with a security problem, and you
21 now believe you're not sufficiently prepared. Let me
22 assure you that the things I have described are not just
23 foreseeable, but known on the basis of experience. In the
24 light of that experience, how comprehensive should your
25 school security plans be? I grant you that you may not

1 even need to use the full range of capabilities I've
2 alluded to, but I'm unwilling to guess which ones you won't
3 need. Even if you should never be required to use them, a
4 comprehensive plan will have anticipated these needs and
5 placed the structures, partnership arrangements and
6 reliances in place now rather than trying to create them
7 during or on the heels of the crisis.

8 Members of the commission, it should be
9 understood that a truly affective school security plan has
10 long since ceased to be the normal, yearly fireman lockdown
11 drills, the flyer stuffed in the teacher's mailbox or the
12 passing reminder during a faculty meeting or before the
13 basketball game. Having security standards and procedures
14 in place that can overmatch the threats we experience today
15 is not hysteria. It is not overblown, and most assuredly,
16 it is not someone else's problem.

17 As you have found in these hearings, no one
18 person has the solution. No one person has the way to
19 reduce violence. No one person can make our schools
20 secure, but it will require an amalgam of the comments and
21 recommendations from experts you have and will hear to
22 assist our educational professionals in providing the
23 security our schools need, our parents demand, and the
24 children deserve.

25 I've only skimmed the surface of what it will

1 take, and what it will mean to turn what you have heard
2 into an effective plan for school security. It will
3 require original thinking, new or modified legislation,
4 dedication and commitment as well as education and
5 resources. Over the past two decades, America has
6 recognized and taken great strides to protect its critical
7 infrastructures, but it is long past the time when we
8 accepted and included the infrastructure that contains that
9 which is the most critical, our schools.

10 With your permission, I'll leave a list of the
11 recommendations that I've suggested with you, and thank you
12 for your retention. I'd be pleased to take any questions.

13 CHAIRMAN JACKSON: Thank you very much, Mr.
14 Mahoney, for your very thoughtful testimony.

15 Do we have any questions for Mr. Mahoney?
16 Chief?

17 COMMISSIONER O'CONNOR: Thank you for your offer
18 of your recommendations. I thought they were pretty
19 thorough, but I'm wondering if we can get copies of your
20 entire testimony. Is that -- and I'm not sure what
21 organizationally what the role is, and if at some point we
22 can go into discussions of our law professor, who's name
23 escapes me, so I apologize, but you know, when we testify
24 in front of the legislature, we leave copies of the
25 testimony. I think given you've done such a thorough job,

1 it might be helpful for us to digest that in writing.

2 MR. MAHONEY: Certainly, I'll make it available.

3 CHAIRMAN JACKSON: Other questions?

4 Mr. Mahoney, you were the first to speak of
5 mandates of you shall, and you used a word that is close to
6 my heart. That word is code. You referenced security
7 building codes.

8 MR. MAHONEY: That's correct.

9 CHAIRMAN JACKSON: We've heard today on one side
10 an opening window can provide safety. On the other side,
11 it can provide risk. At one side a locking bathroom door
12 provides safety. On the other side, risk. Are there any
13 baseline building codes that -- specific items that you
14 would address or would you more mandate the process of
15 determining on an individual basis what they may be?

16 MR. MAHONEY: I think, Mr. Jackson, it's the
17 process, but the important point, I think, is that we
18 understand, and I don't want to say something other than
19 what the previous speaker has said today, but they used the
20 term safety and security codes as one term, all right.
21 They're different things.

22 Safety codes are generally those things
23 considered that are accident generated, you know, the fire
24 and, you know, tripping and falling, and those sorts of
25 things. Security is meant to address those things that are

1 intentional, and it's very important that we keep that
2 separation in mind. So security -- the things that address
3 safety may not be sufficient to address security issues.
4 The whole idea of intentional violence, whether it be
5 internal or external to the school, is really the issue at
6 hand here and each school, each district, but particularly,
7 each school is going to have to be addressed separately.

8 As I said in my presentation, none of these
9 buildings were ever designed to defend against an attack.
10 The architects that spoke with you this morning went into
11 great detail about the things that can be done in schools,
12 but what they described mostly to you was new construction.
13 The question of what do you do in existing buildings is a
14 completely different story. The retro-fitting of security
15 measures on buildings that were never intended or designed
16 to address this issue is incredibly involved, time
17 consuming and expensive. I've done it with a lot of
18 buildings. I've literally authorized the expenditure of
19 billions of dollars worth of security enhancements to
20 existing structures, and the only way you effectively do it
21 is through a risk assessment process.

22 Now, you've heard that several times today, but I
23 don't know that anybody really has taken the time out to
24 explain the way a risk assessment process works, what's
25 behind it, if you will. It's a protocol of very complex

1 algorithms and processes and so forth where different
2 aspects of threats are weighted differently in a hierarchy
3 of criticality against what it is that is your mandate in
4 the function of the different structures, and all of them
5 come out weighted in different ways so as to organize them
6 in a relatively risk assessment process. That is to say,
7 you know, the elementary school may have -- well, it's not
8 may. It has a different function in many ways than the
9 high school. The administration building has a different
10 function.

11 So how do you weigh one of these against the
12 other to come out to a decision of where do you put your
13 money when you have limited funds? And a good risk
14 assessment process will give you a cost-benefit analysis
15 that takes all the recommended mitigations and gives you a
16 dollar -- a risk reduction per dollar spent estimate, and
17 it does it by each mitigation and/or combination of
18 mitigations. And you, as the school board, can go through
19 that list and decide this is the nature of our threats, and
20 these are the things from which we obtain the most risk.
21 So we can select then those mitigations for this amount of
22 money that will give us the greatest buy-down on the amount
23 of risk that we have here. It is a way of getting control
24 over your expenditures for the purposes of enhancing
25 security.

1 It takes some effort. There's no two ways about
2 that, but the tools are out there that will enable you to
3 do this, and it is not a quick fix. When I said in my
4 presentation of short-term and multi-year plans, I mean
5 that, multi-year plans. If you don't have -- and nobody
6 does -- have enough money to do all the mitigations across
7 the entire district that you would like to do immediately.
8 So you have to take them in the hierarchy of that which
9 gives you the greatest risk. What is the problem that is
10 most important to you in your district, and it may be
11 completely different than somebody else's district, or it
12 may be completely different than another school building in
13 the same district. But at least you know where to start.
14 And when you begin to reduce that risk, then you can go to
15 the next one and apply the mitigations suggested there.

16 And this is going to take time for you to do
17 this, and the important thing, as I said, one of the
18 important things is not to create soft targets of your own.
19 The idea is to deter the attack, not deflect it. I don't
20 want to so harden the high school that I send them over to
21 the elementary school, but it is a local decision about
22 whether or not the funding stream is such that I can take
23 one school at a time, and bring it up to the level, which I
24 recommend that you define what the level of security you're
25 looking for in your schools is, whether I do one building

1 at a time until I'm done with the whole district, or I take
2 the funds I have and I spread it throughout the district to
3 try to bring everybody up equally. Those are local
4 decisions.

5 Many of the questions I've heard being asked
6 during the day, the actual response to them is that it is
7 situational. Nobody can give you the absolute, this is
8 what you do, this is how you do it, this is when you do it.
9 There are so many variables out there that the judgment has
10 to be made based on the specific situation at a specific
11 school given the specific threats and the level of risk at
12 that school because of the vulnerabilities built into the
13 school, if you will.

14 That's a very long answer to a very short
15 question, but I thought the point needed to be made.

16 COMMISSIONER FLAHERTY: My quick question is not
17 what do you do at a specific school, but do you believe
18 that all school districts have to go through the process,
19 and should be mandated to go through the process --

20 MR. MAHONEY: Absolutely.

21 COMMISSIONER FLAHERTY: -- of doing the risk
22 assessment --

23 MR. MAHONEY: Absolutely.

24 COMMISSIONER FLAHERTY: -- and the planning
25 process? And I just want to make sure I understand this.

1 The plan that you're talking about is different and comes
2 after the risk assessment --

3 MR. MAHONEY: Correct.

4 COMMISSIONER FLAHERTY: -- that everybody else
5 was talking about this morning.

6 MR. MAHONEY: Correct.

7 COMMISSIONER FLAHERTY: Okay.

8 MR. MAHONEY: You can't write the plan until you
9 know what your problem is, okay? And the purpose of the
10 risk assessment is to define exactly what the problem is,
11 not only by district but by individual buildings. All
12 right. So the thing that -- if you are looking to mandate
13 anything, or you feel the need to, I would say that
14 process, you know, the risk assessment process -- and it's
15 not a security survey. It's very, very different. It's a
16 risk assessment that evaluates starting with the threat,
17 the vulnerability to each of those threats, and then the
18 consequence of the vulnerability in each of them equals
19 what your risk is to each of those threats, and they can be
20 ranked according to what it is you better handle right now,
21 and what you can put off and so on and so forth.

22 COMMISSIONER SCHONFELD: One thing to consider,
23 and I don't know if you'd be able to comment on this, is
24 that if we are able to set up a process by which schools
25 somewhat objectively assess their relative risks and come

1 up with plans, it might -- if it truly is going to reduce
2 their liability, then we should be able to explore whether
3 or not their liability insurance coverage might actually
4 reduce their -- it might reduce their cost for their
5 liability coverage insurance, and that might be a different
6 mechanism other than just mandating, but instead giving
7 them some financial incentive.

8 Now, if the liability coverage insurers are going
9 to say these are such rare events, and what's done doesn't
10 make an appreciable change to their actual risk of the
11 expenses, then I would say we need to relook at the risk-
12 benefit analysis because if anyone is going to be able to
13 do it I would assume it is the liability insurance coverage
14 folks. They're going to be able to give us an assessment
15 of this. It's just something to think about. I know it
16 was discussed in another state that I was in at a panel
17 discussion, and I think an insurer was saying that they
18 would consider that. So we might want to get testimony
19 from that area if we think that would be useful.

20 MR. MAHONEY: Doctor, very insightful comment.
21 The underwriting industry for many critical infrastructures
22 has already looked at that, and they require risk
23 assessments to be done before they will issue policies on
24 some of these structures, and because of having conducted
25 those assessments, then you're absolutely correct, the

1 premiums are reduced because you're not just guessing
2 anymore. You know exactly where the problems are, and
3 you're focusing on them.

4 And you also brought up another -- you mentioned
5 another word that somebody else on the panel had mentioned
6 earlier today. You said liability. And there was some
7 sort of reference to or discussion about -- not said
8 specifically, but the idea of there is so much of this, you
9 know, what happens if we don't do these things or don't
10 know that we should have to do them and so on and so forth.
11 Well, we all know that there is a liability exposure, all
12 right, for knowing what a problem is and not correcting it.
13 Well, following September 11th, many people don't realize
14 that the federal courts, the Second Circuit, in law schools
15 referencing the World Trade Center attack developed a new
16 criteria for liability that had not existed before. It's
17 called foreseeable risk, and in essence what it says is
18 you're not only clearly liable for what you do know, you're
19 liable for what you don't know.

20 So, you know, the old questions of what did you
21 know and when did you know it have now been expanded to
22 include why didn't you know it, and what did you do about
23 it? Why didn't you do something about it?

24 So when we begin to consider the expense of
25 things, the legal expense of this for communities and so

1 forth is also -- can be traumatic, and that's case law that
2 is out there now.

3 Yes?

4 COMMISSIONER BENTMAN: This might just be my
5 imagination, but Americans are optimistic people and we
6 like to believe that the world is a safe place, even when
7 confronted with occasions when the world is not. And I
8 don't -- I hear you asking us to press forward with this
9 beyond what Sandy Hook asks us to look at, and I don't know
10 whether that's because of the world that you've chosen to
11 work in or because you have a sense that the world is going
12 to become a more violent place, and that it would behoove
13 us to begin these processes now in a kind of plod forward
14 in the event that that occurs. Do you follow my question?

15 MR. MAHONEY: Oh, absolutely.

16 COMMISSIONER BENTMAN: Yeah.

17 MR. MAHONEY: And I've told people occasionally
18 that I might not be the best person to be talking about
19 this. My background leaves me -- I'm not a disinterested
20 observer. Now, particularly when I was overseas working in
21 terrorism, I've been to the scenes and I've seen the
22 carnage and so forth, and as I say, I was in the World
23 Trade Center that morning. And yet I don't think that
24 those things have jaded me, you know, to the point where I
25 can't be reasonable about it.

1 The things I'm suggesting are not, at least in my
2 view, and of course you know it's always open to
3 discussion, I don't believe are unreasonable things. As
4 you heard me going through the issues that you can be faced
5 with in school during these things, I presume most of the
6 things you heard me say would be common sense, you know, to
7 do this or do that or, you know, be prepared this way or
8 that way. At least have a plan that addresses these
9 possibilities.

10 The worst possible thing is to be left with
11 nothing to do, not knowing what to do. And you know we all
12 know that battle plans, if you will, never survive the
13 first shot, but yet with having this sort of training and
14 experience and knowledge of what to do, you at least have
15 experience that you can fall back on to do the alternative
16 if what you initially intended to do is not possible.

17 One of the things I learned after the Trade
18 Center was that one of the most important things you can do
19 in a security plan is to be sure that everybody involved in
20 it knows what the objective is, what the final outcome is
21 supposed to be, rather than just their piece of it because
22 when their piece falls apart, and whoever they're supposed
23 to meet with the equipment they're supposed to get or
24 whatever doesn't happen, they at least know what their goal
25 is, and the individual initiative that steps up and finds

1 ways still to achieve what it is that is necessary is
2 important, but that's -- it comes to the fore -- but that
3 is only if the individuals know what the end game is.

4 Do I think things are more dangerous than they've
5 been? Yeah, I do. And I, you know, you heard -- had
6 mention of Beslan before. It's public knowledge, but not
7 very widely distributed. And among -- and this was years
8 ago. Among information seized from Al Qaeda was video of
9 their members practicing the takeover of an elementary
10 school and all of the instructions were given in English.
11 I would submit to you that people do not rehearse what they
12 do not intend to do. And as I say, in the face of these
13 sort of plans and oppositions and so forth, how detailed
14 should our plans be?

15 COMMISSIONER CHIVINSKI: Hi, Mr. Mahoney.

16 MR. MAHONEY: Hello.

17 COMMISSIONER CHIVINSKI: I've been perusing some
18 of your articles online in regards to preparing for
19 terroristic threats, and I'm looking over some of my notes
20 that I've written down, and I hope this question comes out
21 okay, but you know, operational security, you know,
22 possibly training teachers in emergency response
23 situations, there's a lot of out-of-the-box thinking I
24 heard.

25 Regarding these drills, and you had mentioned the

1 binder story with the administrator I believe with all the
2 different tabs and what happens if you can't get to it. Do
3 you believe that we should have some out-of-the-box
4 thinking as we go back to these communities and write these
5 plans with them and members of the community to possibly
6 have others be able to call lockdown drills besides just
7 the principal? To have other types of out-of-the-box
8 drills that maybe we're not expecting?

9 MR. MAHONEY: I would say so. I may -- probably
10 one of the oddest or oddest-sounding recommendations I made
11 there was about prohibiting announcing -- pre-announcing of
12 drills. As a teacher like yourself, I can remember getting
13 those notices in the mailbox, you know, saying next Tuesday
14 at 10:14, we're going to have a drill. I assume you still
15 get them. And what you can infer from that is that the
16 principal controls when things are going to happen, and
17 that's never the case.

18 And I hope I'm not telling stories literally out
19 of school here, but you have everybody stop what they're
20 doing at 10:12, put their books away and so on and so
21 forth, and get ready to get up and march out. We're going
22 to go left down the hall and, you know, all of that sort of
23 thing.

24 That's not a drill. That teaches you nothing.
25 When I teach my classes, my certification classes to the

1 college education majors over in New York, you know, one of
2 the things, of course, that they do and we all remember
3 from elementary school, all right, kids, line up, row of
4 twos, we're going to turn -- when the bell rings, we're
5 going down the hall. No talking. Stay together, et
6 cetera, et cetera. And I asked those prospective teachers,
7 do you think that's a good idea? And they told me, yes.

8 Well, it's not. Because where those teachers are
9 going to be is not walking down the hall in front of their
10 students. They're going to be on their belly, crawling on
11 the floor below the smoke because that's where the air is.
12 And those kids are going to be screaming in panic. They're
13 going to be frozen in place. What do you as the teacher
14 do? Do you get behind them and herd them along? Do you
15 pull them along? How do you get those children to safety?
16 The drill and the reality just simply do not match.

17 So what I'm suggesting is more types of drills;
18 they be unannounced; and as I said in the presentation,
19 everybody's walking out this way, stop. You can't get out
20 that way. Find another way. And watch what happens. What
21 are they going to do?

22 COMMISSIONER CHIVINSKI: But it sounds also -- I
23 mean, I think we also have to be careful not to be too
24 realistic in the drills, but unannounced, absolutely, but
25 I'm also hearing that maybe not just one type of

1 individual. Maybe not just the administrators should be
2 able to call in these circumstances, these drills.

3 MR. MAHONEY: That would be a local decision, I
4 think, right, but I don't see any harm in it if that's what
5 you, you know, consider effective. The whole point of this
6 is how effective are we being in the preparations that we
7 make whether it be in those operational things or in the
8 writing of the plans themselves. Of course, you'll have to
9 find that balance. You don't want to terrify little
10 children so that they don't want to go back to school the
11 next morning, but at the same time, we have to understand
12 that this is not a walk in the park that we're practicing
13 for.

14 And one of the things the -- and I've worked with
15 some of those people who spoke to you this morning. You
16 know, the idea of, well, let's get the administrator's
17 office right down front at the front of the school so that
18 everything that comes in and out can be controlled. I
19 would offer the possibility to you that putting it in that
20 position means that's the first place that's going to be
21 taken out. And if your communications capability is in
22 that spot, now what do you do for controlling the situation
23 in the school for contacting the emergency services and
24 everybody else you need to notify. Hence, the
25 recommendation about redundant placement of communications

1 capability. If one place -- if I cannot get to my command
2 and control center, if you will, for want of a better term,
3 at least then I know I have another place where I can still
4 effect the instruction and so forth that the students and
5 the teachers and everybody else need.

6 CHAIRMAN JACKSON: Thank you. I think we have
7 time for one more.

8 Mr. Sandford?

9 COMMISSIONER SANDFORD: I would just say that I
10 couldn't agree with you more with everything that you said,
11 and I don't think that it's out-of-the-box. I think that
12 you're in the box as far as getting things, you know,
13 you're right on target, but again I'm the kind of guy that
14 when my little daughter used to sleep at the neighbor's
15 house and I was worried about a fire in the house, my wife
16 told me I couldn't call anymore because it was embarrassing
17 to the neighbors and the family. So I went out and bought
18 a smoke detector, put it in her backpack so that when she
19 went there she had a smoke detector. So you know, you
20 would give the perspective that I'm in the same box that
21 you're in, I guess.

22 I would say that to the members of the panel that
23 if there is not an assessment done, I would lead back to
24 the old adage that says, "If you don't know where you want
25 to go, it doesn't matter which way you head." Without that

1 assessment, municipalities are going to spend money that
2 they don't need to spend. You know, we're already seeing
3 it in the news that a lot of people, as you said earlier,
4 doc, that, you know, we're acting out of -- maybe out of
5 emotion instead of out of doing things the right way, and I
6 think what we've heard today very loud and clear, and I
7 agree with it.

8 We need to have an assessment done so that the
9 municipality looks at, you know, where the real threat is.
10 Where can I get the best dollar for the money that I have
11 to spend and how can I go about doing that that are going
12 to, you know, protect the children because the children are
13 always number one. I couldn't agree with you more that we
14 need to do that.

15 We've done some of the things that you've
16 mentioned like NIMS for school administrators. We did
17 2005, 2006, but you know what? Most of those have probably
18 retired, and they need to be retrained in NIMS. I'm
19 hopeful that -- one of the speakers we're going to have in
20 the future is from New Hampshire, and he works for the
21 state and his sole job is emergency management for local
22 schools. And I was kind of hoping you were going to make
23 that recommendation, that within the Department of
24 Emergency Management here in the State of Connecticut, we
25 need to have a school emergency planning specialist that

1 when a new principal comes in or a new superintendent comes
2 in and says, I have a plan. I don't know what to do with
3 it, that I have this place that I can go. I have a number
4 that I can call. Someone is going to answer it, and
5 someone is going to help me get through this.

6 I'll end with one last example, and I'm sure you
7 could appreciate this. After 911, FEMA was put underneath
8 Homeland Security, probably inappropriately. It just
9 should have been put underneath FEMA, but anyway, so the
10 solution because we had lots of money was to go out and
11 hire someone to write a new federal plan. The federal plan
12 had 300 and some odd pages in it. It was very thick.
13 Maybe 1,000 pages. And then there was this little
14 hurricane that struck New Orleans. I think it was called
15 Katrina. I'm not really sure. And then the federal
16 government realized that that plan that they spent millions
17 of dollars on was useless.

18 So now they have a new plan. It's called the
19 Federal Response Plan, 43 pages?

20 MR. MAHONEY: It's not -- they don't call it plan
21 anymore. It's the guidelines.

22 COMMISSIONER SANDFORD: No, it's the Federal
23 Response Guidelines.

24 MR. MAHONEY: Yeah.

25 COMMISSIONER SANDFORD: Yeah.

1 MR. MAHONEY: They know better than to call it
2 planning.

3 COMMISSIONER SANDFORD: 40 pages I think. Yeah.
4 It's like 40 pages for the whole, you know, federal level
5 of response to disasters. Kind of an interesting analogy.
6 So like you said, a plan isn't everything if you can't get
7 to it. Exercising the plan, I think, is extremely
8 important. There's a lot of things that could be done that
9 don't cost any money.

10 MR. MAHONEY: But the risk assessment process is
11 the alpha, if not the omega --

12 COMMISSIONER SANDFORD: Absolutely.

13 MR. MAHONEY: -- of the entire thing.

14 COMMISSIONER SANDFORD: Right.

15 MR. MAHONEY: And that really needs to be done,
16 and one of the values of it unstated is -- and this is why
17 I mentioned it needs to be recycled about every three years
18 because you are going to do some return on investment.
19 That is, and return on investment in a risk assessment, of
20 course, is reduction of risk. You are going to get some
21 reduction of risk because of the mitigations that you do
22 put in place.

23 Well, after you've done that, now, we need to go
24 back and look at it again and see what your security
25 profile is now as compared to what the original baseline

1 was. So by recycling this, you are currently -- you're
2 always current. You're on top of the situation, whether
3 the nature of the threat changes or the nature of your
4 vulnerability changes, and this becomes a management tool
5 for the school districts then to be able to say, all right,
6 I was spending money three years ago based on this
7 parameter, but now I have a different one, and now I can
8 spend my money more wisely and correctly because I have
9 recycled, if you will, what my assessment is. And over
10 time, you can see that risk reduction dropping down.

11 So you know you're actually getting a return on
12 your investment, and it absolutely is repeatable and
13 defensible. If somebody says to you, well, why are you --
14 why do we need that kind of door? Or why do we need --
15 well, here we have the assessment that describes what our
16 actual problems are, and why we need to correct it. And by
17 going back every few years and doing it again, it only
18 makes it that much more defensible.

19 CHAIRMAN JACKSON: Doctor?

20 COMMISSIONER GRIFFITH: Thank you very much for
21 your patience. I just want to ask you -- and I've listened
22 very carefully. Where do you think we should start in a
23 democratic society because the soft targets, if I follow
24 your argument, the school is just one example of the soft
25 targets in a democratic society. Other examples, I mean,

1 I'm no terrorist expert, but I could do it just sitting on
2 my couch if I wanted to cause trouble tomorrow, I'd choose
3 Union Station in New Haven. I'd look around for wherever
4 they're going to have concerts on the Yale campus because
5 that's where they're going to be. I would hit university
6 libraries all across the country. I mean, I could go on
7 and on with all of these examples because this is where we
8 know people are going to be in a defined agglomeration.

9 So where are we going to start? Are there no
10 sacred institutions? I mean this is why the presidents of
11 several institutions have responded, you know, with
12 vehemence against police officers coming onto campuses to
13 violate what they see as sacred ground. This is why
14 pastors all across the country have objected so strenuously
15 to the introduction of interrogation of law enforcement
16 people and so on in their worship sanctuaries.

17 I mean the point is where and when are we going
18 to stop with the response, and I don't know myself the
19 answer to that question, but I'd like to hear what your
20 answer is because I -- my own theory is that everything we
21 do -- and I consider schools important. I consider them
22 one of the maximum sacred institutions in a democratic
23 society, and my theory is that everything we do in the
24 school system will have an effect. We don't know yet what
25 the effect is going to be, but it must have an effect

1 because there's no neutrality in these sacred institutions,
2 and every time we make people nervous, every time we do X
3 we do Y, it will have an effect on the ultimate function
4 that we have defined previously for these institutions.

5 And I think this is a very, very important
6 question, and with your expertise I'd like to hear what
7 your answer is. I mean do you want to turn St. Patrick's
8 Cathedral into a really hard target? And you know you and
9 I could cause trouble a lot tomorrow -- Sunday morning if
10 we go there. I mean what do we want to do? Where do we
11 -- I promised a short question, and I just cannot stop
12 because it's so important to me because I think this is a
13 fundamental question for our democratic society.

14 MR. MAHONEY: As you might expect, that's not the
15 first time I've been asked that question in various forms.
16 Let me give you an answer at different levels.

17 When I was at the Port Authority, and I was as I
18 say, I'm talking about billions of dollars in security
19 enhancements, and I was asked one day by one of the
20 executives, "Well, when am I done, you know, doing all of
21 this?" And I was a little taken back by the idea -- or by
22 the question that he thought there was a done.

23 As long as there is a threat out there, you're
24 not done unless you choose to accept the level of risk, and
25 you will remember maybe that the first recommendation I

1 gave here was describe the level of security you seek. You
2 have got to set that standard. In other words, we're
3 asking how much -- what are you willing to live with? What
4 is the level of hazard exposure that you can tolerate? And
5 if you can answer that question successfully so that
6 everybody agrees with you, then you've gone places that
7 nobody has ever been.

8 And the same thing is true for this society. You
9 know, I remember the afternoon of September 11th, a reporter
10 asked Rudy Giuliani about how many people had been killed,
11 and his answer was, "I think more than we can tolerate."
12 That's a very interesting answer. It implies that we do
13 have a tolerance for loss, but what that level is we've yet
14 to fathom.

15 And the same thing is true for the society as a
16 whole. What sort of reaction to attack or to a problem is
17 sufficient? Or what amount of resources and to use the old
18 term, civil defense, do you think is necessary to address
19 the world we live in, and we certainly have enough
20 experience with violence issues in schools to have some
21 sense of how far we want to go in security. And as a
22 teacher, and I still consider myself as that, I try to be
23 very careful when I'm talking to the young people not to
24 scare them, but at the same time I don't want them
25 oblivious that their own lives depend on not being

1 oblivious to what's going on around them.

2 Ultimately in some of these cases, these young
3 people are going to find themselves responsible for their
4 own survival. There just are not enough teachers to go
5 around and people to help them and so on and so forth in
6 some of these issues and some of these circumstances. And
7 I would hate to think that they're just frozen in fear or
8 indecision of what they can do, what they can think of,
9 what they can try to save themselves. Hence, the urging
10 for more and better types of drills and so forth, you know,
11 it's to benefit them, the children themselves.

12 And my own children, you know, had the misfortune
13 of being born to a father who thinks this way, and probably
14 a few times I scared them more than was necessary, but I
15 like to think that I gave them an awareness that in
16 critical situations it is going to help them. And if we
17 can instill some of that into our children across the
18 board, I, you know, we teach them to stop, drop and roll
19 now. Why can't we teach them other things in that same
20 vein to help save themselves?

21 But how far the society wants to go? I'm not
22 Solomon. I can't help you with that one. I think
23 circumstances will dictate that.

24 CHAIRMAN JACKSON: Thank you very much, Mr.
25 Mahoney. You've been very generous with your time. The

1 last two comments from members of the panel have kind of
2 opened the floor for that kind of discussion. What, you
3 know, ultimately, ultimately, what do we want? What tools
4 do we think should be made available? What kinds of
5 changes should be made or must be made?

6 We've heard about risk assessment as being the
7 item from which all things related to school security to
8 physical plan must bring. So now the question is how do we
9 -- and we've also heard something else that didn't exactly
10 come up, but it's been alluded to, it appears that we have,
11 as our colleague Mr. Ducibella would say, high-fidelity
12 data coming out of these risk assessments. These numbers
13 are not simply pulled from the air. They have proven
14 validity that you can actually measure the return on
15 investment based upon application of the risk assessment.

16 So I open it to the floor. I'd like to talk
17 about some of these things while they're still fresh, get
18 people's first blush reaction to the information that we
19 heard today.

20 Anyone want to make any comments about things
21 they've heard, they like, they don't like, they -- to
22 evaluate a little bit more?

23 COMMISSIONER MCCARTHY: I think that we need to
24 look at the types of tools that are available. I think
25 that those assessment tools are evolving given the new

1 exposure or the repeated exposure we have to school
2 violence. So we want to make sure that we're looking at
3 the most current version, and from my perspective ones that
4 include the behaviors that exist in a broad-range of school
5 environments because beyond just the physical plant, I
6 think the everyday hazards are the ones that have the
7 greatest return for investment if we address those.

8 So I would like to take a look or at least have
9 someone testify what those current assessment tools are,
10 and take a look at them, and evaluate the assessment tools
11 for part of our recommendation.

12 CHAIRMAN JACKSON: Anyone else?

13 COMMISSIONER GRIFFITH: I guess in my business,
14 we use lots of risk assessment tools also. The trouble --
15 we've learned it -- in my business, we've learned it the
16 hard way -- the lessons the hard way. Applying it to
17 events with low base rates is seriously problematic. So --
18 and we have to be careful how we're applying the risk
19 assessments and what we think we are assessing and then not
20 extrapolate and jump to conclusions that really don't have
21 faithful applications to what the information we've -- so
22 what do I mean by that?

23 Well, we can do a lot of things in the schools,
24 and I was never having any argument about that this morning
25 when I posed my questions so that my colleague understands.

1 We can do lots of things in schools, and I would never deny
2 that we ought to do lots of things we can do for schools.
3 But the particular event that we're talking about and that
4 has stimulated our presence and catalyzed lots of stuff,
5 that is a very low-base rate event. So even those you're
6 doing lots of things, what you're doing you can't
7 extrapolate from that and move backwards and say, well, now
8 we've done all the things. We're going to prevent X. I
9 think mathematically, that is not logical because we can't
10 do that with a low-base rate event.

11 So we can have effects on schools and do all
12 kinds of things. I mean, one of the things I think I've
13 learned today is the notion of thinking of the hazards as
14 multiple so that we can do things that might have an
15 effect, for example, on bullying because bullying is an
16 event that's much more frequent. It's much more common.
17 So we might, in fact, do lots of things that would have an
18 effect on bullying.

19 And the issue of the dangers internal to the
20 school, it's a very interesting idea for me because we can
21 think about that and improve the context in which that
22 occurs, reduce the frequency of that, and so on. We can't,
23 however, move to having this dramatic effect on a low-base
24 rate phenomenon.

25 And so that's the only thing that you and I then

1 come back to, and I hope we are in agreement on that, that
2 there are lots of things you could do in New York City to
3 improve the security of particular buildings and so on, but
4 I don't see how you can extrapolate to the extremely rare
5 event of having planes fly into the two buildings that the
6 terrorists knocked down because that rare base rate event I
7 don't see how you can use these other things and say that
8 you're going to prevent it.

9 And I'm just trying to clarify that point because
10 it has a lot to do with the structured thinking and the
11 discussions that I hope we will engage in, that we not do
12 things just for the sake of doing them then think that we
13 have solved problem X, when in fact, we solved problem Y
14 and problem A, but we didn't solve problem X that
15 originally started all of this.

16 MR. MAHONEY: If I may?

17 MR. GRIFFITH: Yes.

18 MR. MAHONEY: The answer to that or partial
19 answer, the best of the risk assessment tools has an open
20 range of threats, and your point about only including the
21 low-frequency events, you know, and spending all this time
22 and effort and money on those when the probability of them
23 happening is small is counterbalanced in the best risk
24 assessment processes by taking the full range of threats
25 from bullying and so on and so forth --

1 MR. GRIFFITH: That's how -- I conceded that.

2 MR. MAHONEY: All right. And what happens then
3 through the algorithm, those are weighted differently. So
4 that's why I was very careful to say you use a relative
5 risk assessment process rather than an absolute risk. The
6 relative risk will balance that issue that you come out
7 with very eloquently that the bullying will have a position
8 in the final scatter chart, if you will, that risk and
9 consequence of that will very possibly exceed that of the
10 shooter just based on frequency of the circumstance, and --
11 but it all has to do with vulnerability and the amount of
12 consequence from that threat because of the vulnerability
13 you've described.

14 MR. GRIFFITH: But it's very easy --

15 MR. MAHONEY: It's subjective.

16 MR. GRIFFITH: Yeah, but it's very easy also to
17 misunderstand then some of the testimony given this
18 morning.

19 MR. MAHONEY: Oh, yes.

20 MR. GRIFFITH: Because the testimony had to do
21 with establishing principles and concepts and so on turned
22 towards the outside of the school.

23 MR. MAHONEY: Right.

24 MR. GRIFFITH: Right?

25 MR. MAHONEY: Yes.

1 MR. GRIFFITH: Far more than the inside of the
2 school.

3 MR. MAHONEY: Well, that's what the architects
4 would do.

5 MR. GRIFFITH: I understand --

6 MR. MAHONEY: My wife is an architect. So I'm
7 architect by marriage.

8 MR. GRIFFITH: But do I have it right? I mean --

9 MR. MAHONEY: Yes.

10 MR. GRIFFITH: Okay.

11 MR. MAHONEY: Yeah, no, I agree with you fully
12 all right. But what I want you to understand is that the
13 best of the risk assessment tools now include a probability
14 assessment with assurances of probability.

15 MR. GRIFFITH: Good.

16 MR. MAHONEY: All right. So that all of those
17 things are considered and weighted so that what you come
18 out with at the end you have a reliance on.

19 I would caution one thing. Many people bring up
20 a question of cost effectiveness on all of these things,
21 which is essentially what you're asking in another way.
22 And cost effectiveness is a very legitimate accountance
23 question, if you will, and if by that we mean cost of
24 acquiring as opposed to frequency of use, then I would
25 submit in this type of circumstance, it's the wrong

1 question because we're talking about life and death issues.
2 All right. The more correct question if you will is what
3 do I do when I need it and don't have it? If cost
4 effectiveness were the pivotal question, I would submit to
5 you that there wouldn't be a town in the country that owned
6 a fire engine.

7 So you need to sit and think about what the level
8 of consequence is and how much you're willing to live with
9 that consequence.

10 CHAIRMAN JACKSON: All right. Thank you. We've
11 got one more because another committee needs this room in
12 fifteen minutes. So, Chief?

13 COMMISSIONER McCARTHY: Yeah, Mayor, I think that
14 it would be helpful to understand what communities who have
15 gone through a school violence incident how they have
16 reacted. What has Columbine done to their school system
17 after the event and how have they dealt, one, with the
18 emotion; how they've processed the emotion of the event and
19 then made thoughtful improvements to their infrastructure?

20 What is going on in Newtown today regarding how
21 they're going to change the school system? As the doctor
22 said, everything that they do will have an impact. It will
23 have an impact on the education, on the culture, and the
24 environment, and I think it would be helpful to understand
25 how those systems have reacted to violence, and what they

1 think the change that has occurred and how that has
2 resulted -- or the impact on their communities.

3 CHAIRMAN JACKSON: Thank you. We'll see if we
4 can get any data to help provide some answers on those
5 items.

6 Well, why don't we -- thank you very much, Mr.
7 Mahoney, very helpful.

8 Why don't we just quickly talk about some
9 organizational things? You know, when you get 40 inches of
10 snow, it's hard to concentrate on other things. It, you
11 know, it --

12 UNIDENTIFIED SPEAKER: (Inaudible.)

13 CHAIRMAN JACKSON: Yes, yes.

14 UNIDENTIFIED SPEAKER: That really is number one.

15 CHAIRMAN JACKSON: Fortunately, Mr. Sullivan and
16 Ms. Edelstein have agreed to serve as co-chairs of this
17 commission. I don't know if we're ever going to get
18 sixteen people in the room because of who we are and what
19 we do. So it's important to have some continuity of
20 leadership, and I thank them for their offer to serve.

21 We did hear from Governor Ritter that it was
22 important to have a recorder, and we do. That's very
23 helpful to us, and what she will do is she will seek to
24 synthesize a lot of the information that we receive, and
25 really put it into categories that are manageable to us in

1 looking forward to recommendations.

2 We will seek to do -- to hold Fridays for
3 meetings on different topics. The next set of topics that
4 we'd like to take a look at are trauma and trauma response,
5 guns and ammunition and emergency management protocols and
6 training. So those are some things that we've already had
7 some initial conversations about and will put together
8 those panels for the next few weeks.

9 And then after that, we are going to then dive
10 into the many issues surrounding the delivery of mental
11 health services and how that intersects with some of the
12 things that we've heard. How does it really interplay with
13 this risk assessment tool? How should it be managed?

14 So that's -- moving forward, that's a general
15 direction. One thing that I would like folks to do, again,
16 over the next couple of days as you have a chance to
17 ruminate on this, if you could just start to jot down some
18 of your ideas, some of the recommendations you heard that
19 made sense that you want to make sure when we do have some
20 sessions without a panel where they're discussion sessions,
21 we want to make sure that the great ideas are all the table
22 and that the things that we feel strongly about we have an
23 opportunity to present. So to the extent that you can take
24 a little bit of time out of your schedule this weekend to
25 jot down some notes about things that you want to make sure

1 we come back to, it would certainly be helpful to the
2 process.

3 So one --

4 A COMMISSIONER: We're set for which dates now?

5 CHAIRMAN JACKSON: Every Friday.

6 A COMMISSIONER: Every Friday?

7 CHAIRMAN JACKSON: Every Friday for the next few
8 months.

9 UNIDENTIFIED SPEAKER: Beginning at 9:30.

10 CHAIRMAN JACKSON: Beginning at 9:30. So if --
11 that's what we've asked to hold. That's what we've asked
12 to hold. To the extent possible that we can manage that,
13 that would be helpful, but I understand that schedules will
14 not always allow for everyone to be with us, but I wanted
15 to give you a sense moving forward over the next four weeks
16 or so what our expectation is.

17 Thanks for your time and attention everyone. It
18 was a long day. It was a good day. We got a lot of good
19 information. Thank you.

20 (Hearing adjourned.)

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CERTIFICATE

I hereby certify that the foregoing 202 pages are a complete and accurate transcription to the best of my ability of the electronic sound recording of the meeting of the Sandy Hook Advisory Commission (SHAC) held on February 15, 2013 at 9:36 a.m. at the Legislative Office Building, Hartford, Connecticut.

Suzanne Benoit, Transcriber

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