Best Practices for Safer School Facilities

Panelists:

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Agenda:

In this presentation, we will:

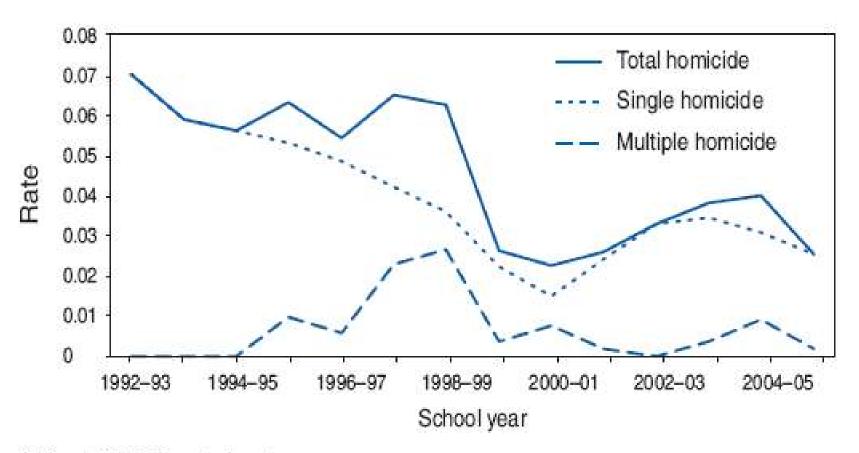
- Review the factual context relating to safety concerns on campus
- Describe the fundamental strategies of Crime Prevention through Environmental Design
- Show you some realistic steps you can take, particularly focusing on secure entries
- Equip you with additional suggestions and resources going forward.

Context: Violent Crime on Campus by Location:

Parking lots and bus stops:	38%
Stairs and Corridors:	30%
Grounds:	23%
Classrooms:	21%
Entries:	11%
Courtyards or between buildings:	9%
Bathrooms:	6%
Cafeterias:	5%

^{*}Per Kachur et al, 1996

Context: Trends in School-Associated Violence



^{*}Per 100,000 students.

Context: From Columbine to Sandy Hook - School aged violent deaths from 1999 through 2012

Total School Age Violent deaths:	50,525
School Age Victims of Suicide:	<u> 26,589</u>
School Age Victims of Homicide:	23,936

Total "Mass" Homicides at K-12 schools: 44

Proportion of Mass Homicides as compared to total School Age violent deaths:

0.08%

*"School Age" is here counted as being from 5 through 19 years of age

Per FBI, Dept. of Education, and Center for Disease Control (data for certain years is extrapolated)

Context: From Columbine to Sandy Hook - School aged violent deaths from 1999 through 2012

Total Violent Deaths on School *Campuses: 328

Proportion of violent deaths on campus as compared to total School Age Violent Deaths: 0.64%

Proportion of Mass Homicides as compared to total violent deaths on Campus: 12.83%

*"On Campus" means on school property (including buses) or while attending any school supervised activity

Principles of CPTED (Crime Prevention Through Environmental Design)

- Natural Surveillance
- Natural Access Control

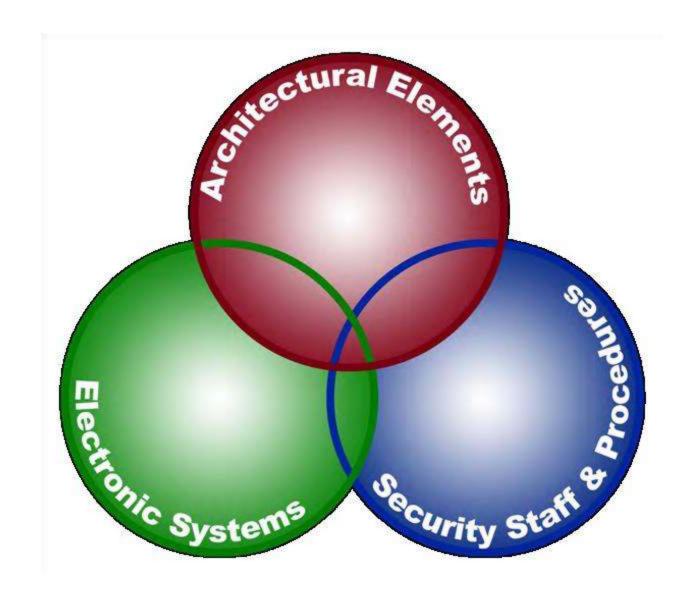
Natural Territorial Reinforcement

"CPTED is the proper design and effective use of the built environment that can lead to a reduction in the form and incidence of crime and improvement in the quality of life." - C. Ray Jeffrey, 1971

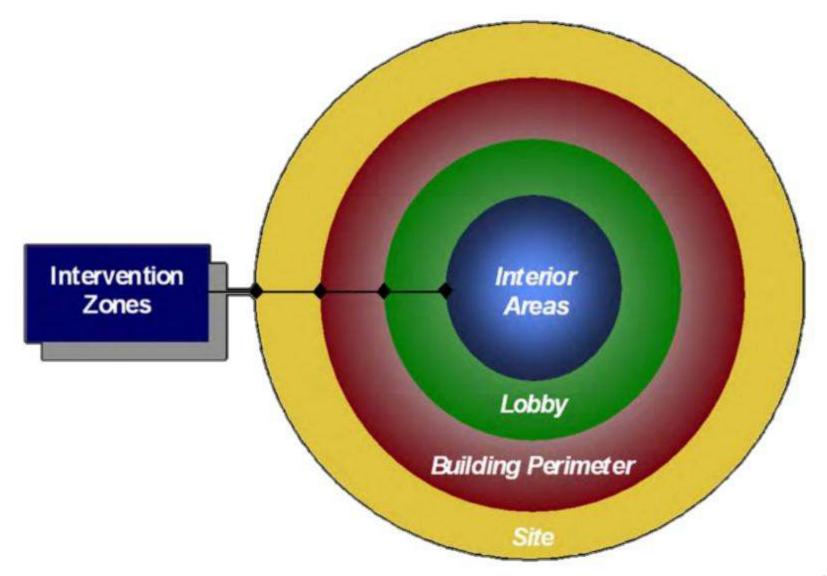
"CPTED is a tool for identifying, preventing and solving local crime problems. It is a process, a way of thinking about crime and not a "cookie cutter" program to replicate."

- National Crime Prevention Council

Integrated Security Program:



CPTED Strategies: Concentric Circles of Protection



CPTED Strategies: Natural Access Control

- Decreases crime opportunity by denying access to crime targets and creating a perception of risk to the offenders
- Differentiates between public and private space
- Occurs by designing entrances and exits, fencing, lighting and landscape to limit access or control flow
- Tips:
 - Limit number of entrances to your campus
 - Have one main entrance clearly marked that will lead visitors to the main office

CPTED Strategies: Natural Access Control





CPTED Strategies: Natural Surveillance

- Increases the threat of apprehension
- Potential offenders feel increased scrutiny and limitations
- Occurs by designing the placement of physical features, activities and people in such a way to maximize visibility
- Tips:
 - Keep bus drop-off areas, employee parking, and visitor parking separate from each other and away from busy streets
 - Avoid constructing large blank walls, which limit surveillance opportunities and serve as targets for graffiti
 - Use low shrubbery to allow visibility from the classrooms
 - Do not cover entrance windows with posters and announcements

CPTED Strategies: Natural Surveillance

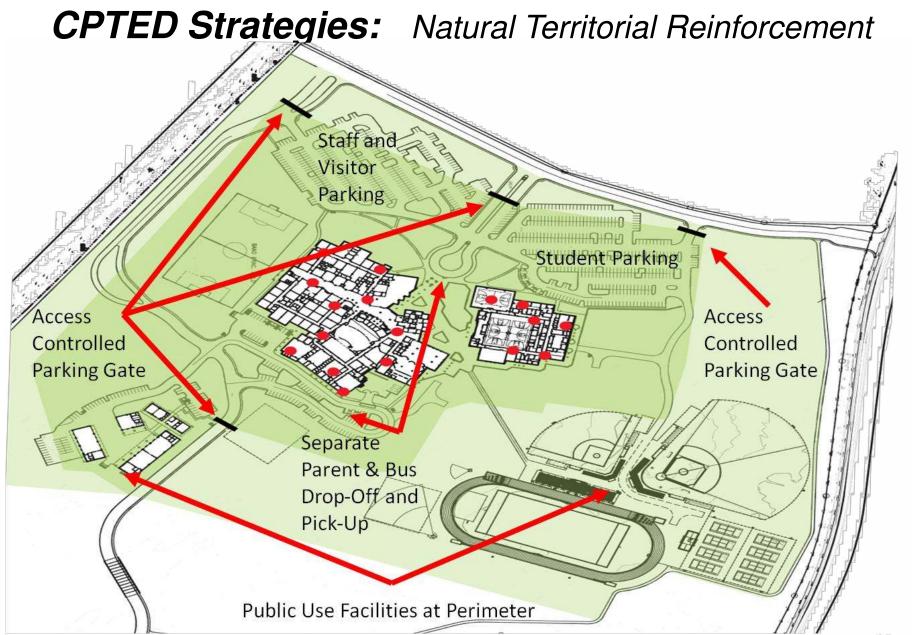






CPTED Strategies: Natural Territorial Reinforcement

- Promotes social control through increased definition of space
- An environment designed to delineate private space does two things:
 - Creates a sense of ownership
 - Sense of owned space creates an environment where "strangers" and "intruders" stand out
- Occurs by designing buildings, fences, pavement, lighting and landscape to express ownership and define public and private spaces



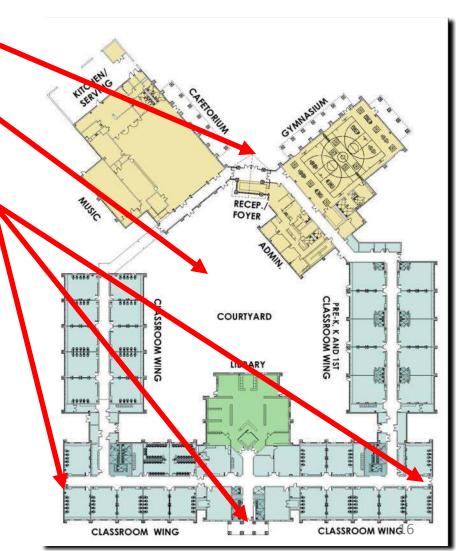
CPTED Strategies: Natural Territorial Reinforcement

Main Public Entrance and Control Point

Secure Courtyard

Secondary Exists Limited Access





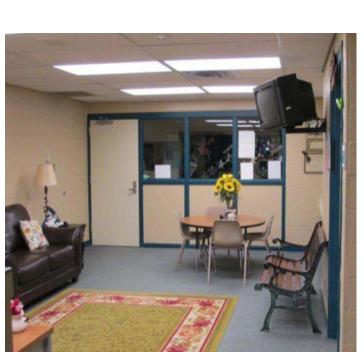
Secure Entries: The Basics

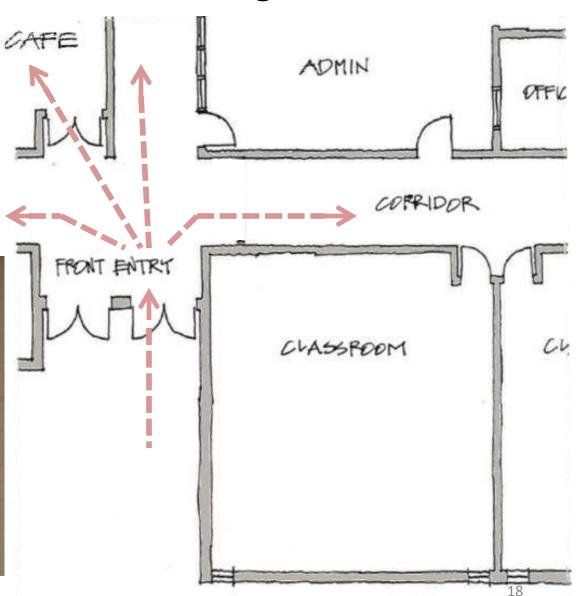
- Checkpoint Traffic Flow
- Visibility
- Emergency Communications

Checkpoint Traffic Flow: Existing Conditions

 No Visibility from Office to front entry

 Visitors can freely go in multiple directions



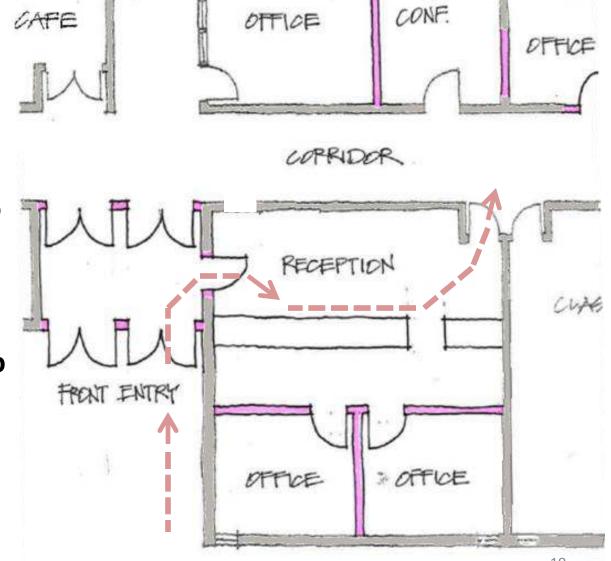


Checkpoint Traffic Flow: Proposed Upgrades

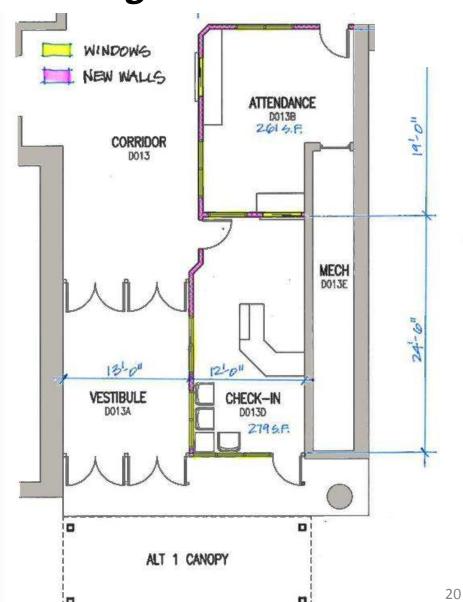
 Two sets of doors to create locking vestibule

 Re-arrange rooms to put reception up front

 Visitors are forced to go through checkpoint

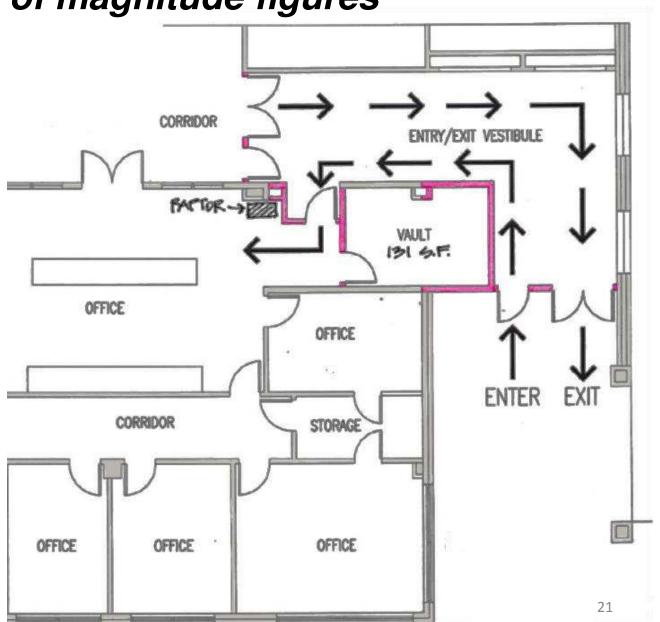


 \$160,000 – included sidewalk, handicapped parking, canopy

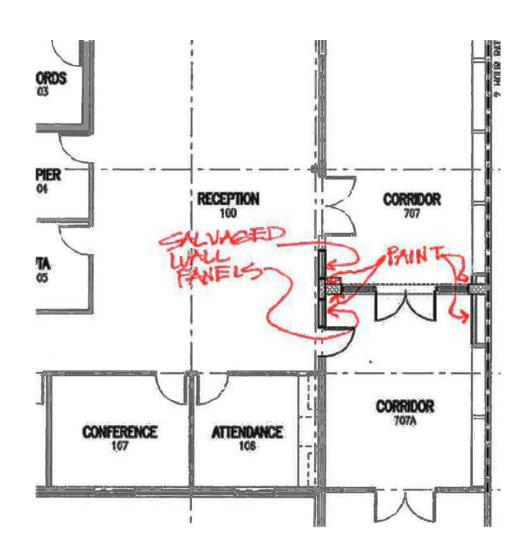


• \$100,000

included new
vestibule doors,
moving a room,
new door into
office,
repair/replace
flooring in Office
and Corridor,
modify casework



- \$40,000
- Included new doors, windows, adjacent finish patching and repair



New Double doors

\$3,000 - \$5,000

Add card reader to door

\$500 - \$2,500

Add security camera

\$500 - \$2,000

New door in wall

\$2000

New vision window in wall

\$1000

Security Check-in window

\$2500

Intrusion detection sensor

\$200







Mitigating School Safety through CPTED:

Starting at the Front

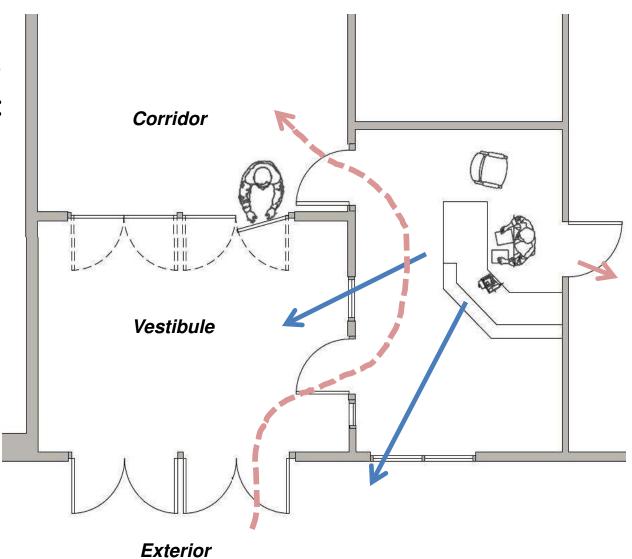
- Mitigating school safety should always be considered in the design of new schools and renovations.
- Require contracted architects to fully engage those end users such as principals, teachers and support staff.
- The first security priority for schools should always be student and staff safety, with entry control as the main focus.

Target Hardening

- Target hardening or mitigation is an approach to making your school a less attractive target for anyone with "bad intent."
- This can be directed at denying or limiting access to a crime target through the use of physical barriers such as fences, gates, locks, electronic alarms, and security patrol.

Checkpoint Traffic Flow: Basic Diagram

- Inner doors locked, visitors forced to go through Checkpoint
- Visibility from Checkpoint
- Emergency
 Communication
 activated at
 Checkpoint
- Escape Route from Checkpoint



Culture:

- Proactively reach out to key stakeholders prior to an emergency
 - Parents
 - News media
 - First Responders
- Place more emphasis on prevention and mitigation
- Allow solutions/best practices to take on the flavor of your organization and community

Assessment: where can you go for help?

- Your Workers' Comp Provider
- Independent Security Consultant
- Targeted Scope

TOP TEN LIST: some answers to the question, "What are you doing to make your school safer?"

- Policies and Priorities
- 2. Door position sensors at all exterior doors
- 3. Card Readers
- 4. Surveillance Cameras
- 5. Cameras Recording vs. Monitoring
- 6. Visitor Accountability System
- 7. Panic Button/Emergency Communication
- 8. Lockdown Button
- 9. Wayfinding
- 10. Coordination with Emergency Responders

Further Resources:

Texas State University, San Marcos – Texas School Safety Center

www.txssc.txstate.edu

Office of the Attorney General, State of Texas - School Safety Guide

www.oag.state.tx.us

US Department of Education, Office of Safe and Healthy Students, Emergency Planning www2.ed.gov/admins/lead/safety/emergencyplan

FEMA, Multi-Hazard Emergency Planning for Schools

http://training.fema.gov/EMIWEB/IS/is362a.asp

U.S. Department of Homeland Security, School Safety

http://www.dhs.gov/school-safety

U.S. Secret Service and U.S. Department of Education, THREAT ASSESSMENT IN SCHOOLS

http://www.secretservice.gov/ntac/ssi_guide.pdf

Texas Education Agency

http://www.tea.state.tx.us/