# **NCEF Safe School Facilities Checklist**

Downloaded August 22, 2011

| School or building name: |               |
|--------------------------|---------------|
| Date of assessment:      |               |
| Assessor:                | Phone number: |
| Contact person:          | Phone number: |

### **About the Checklist**

This checklist is designed for assessing the safety and security of school buildings and grounds. Created by the National Clearinghouse for Educational Facilities and funded by the U.S. Department of Education's Office of Safe and Drug-Free Schools, the checklist combines the nation's best school facility assessment measures into one comprehensive online source. Nationally recognized school facility and safety experts participated in the checklist's creation and oversee its maintenance and updating.

The checklist embodies the three principles of Crime Prevention through Environmental Design (CPTED): **natural surveillance**, the ability to easily see what is occurring in a particular setting; **natural access control**, the ability to restrict who enters or exits an environment; and **territoriality-maintenance**, the ability to demonstrate ownership of and respect for property.

There is no perfect score or passing grade for the checklist and not all assessment measures will apply to any one school. Those that do apply must be considered in the context of the school's primary purpose: providing an effective teaching and learning environment. Proper safety and security measures do not work counter to this purpose.

Using the checklist should be an integral part of a school's crisis mitigation and prevention strategy. For complete information about crisis planning, see the publication **Practical Information on Crisis Planning: A Guide for Schools and Communities** by the Office of Safe and Drug-Free Schools, at <a href="http://www.ed.gov/admins/lead/safety/emergencyplan/crisisplanning.pdf">http://www.ed.gov/admins/lead/safety/emergencyplan/crisisplanning.pdf</a>.

### **NCEF Assessment Guides**

An alternative form of this checklist is the series of *NCEF Assessment Guides*. The guides may be downloaded individually, by space type, and multiple copies may be made for repetitive spaces such as classrooms. See **Mitigating Hazards in School Facilities** at <a href="https://www.necf.org/safeschools">www.necf.org/safeschools</a>.

# The Assessment Team

For reviewing designs for a new school, addition, or renovation, the assessment team should be led by a school CPTED specialist and include the project facility planner and architect as well as appropriate school personnel and engineering and security professionals. Reviews should be conducted during the schematic phase and at the 30 and 95 percent document completion stages, with emphasis on getting things right as early in the design process as possible. If there is a post-design value engineering review, be careful that safety and security features are not compromised.

For assessing an existing school, where the facility itself is examined, the assessment team should be led by a school CPTED specialist and include the school or district facility manager, the principal, and, as appropriate, the head custodian, a teacher, the school resource officer, the local fire and building inspectors, and any needed architectural, engineering, and security professionals. Where assembling such a team is impractical, key school personnel should be interviewed to identify specific safety and security concerns and potential sources of trouble that otherwise might be missed.

# Acknowledgements

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# Sources

The checklist is drawn primarily from six sources:

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School Safety and Security. School Facilities Planning Division, California Department of Education. 2002.

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A Practical Guide for Crisis Response in Our Schools. Fifth Edition. "Preventive Measures," p. 80. Mark D. Lerner, Joseph S. Volpe, Brad Lindell. American Academy of Experts in Traumatic Stress. 2003.

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The checklist is available in Word format for states and local school districts seeking to adopt and modify it; contact NCEF's Reference Services at ncef@nibs.org.

# **Questions and Comments**

For questions, comments, or suggestions, contact NCEF's Reference Services at ncef@nibs.org.

# You have made the following initial selections:

Assessing an existing school facility

Acts of violence and terrorism Earthquakes Hurricanes, tornados, and other wind hazards Flooding

# You have selected the following categories and subcategories of information:

### SCHOOL SURROUNDINGS

- Potential Man-Made Hazards
- Seismic and Wind Hazards
- Flood Hazards

### SCHOOL GROUNDS

- General
- Site Access Control
- Site Circulation
- School Bus Areas, Parent Pick-Up Areas, and Public Transportation
- Vehicle Parking
- · Bicycle Parking
- · Pedestrian Pathways and Student Drop-Off Areas
- School Grounds and Recreational Areas
- · Exterior Lighting
- Landscaping
- Dumpster Enclosures
- Storm Water Retention Areas
- Site Utilities

# SCHOOL BUILDINGS AND FACILITIES

- · General
- **Building Access Control**
- · Exterior Walls
- · Exterior Doors
- · Windows
- · Roofs
- Canopies, Awnings, Breezeways, and Covered Walkways
- Courtyards
- Portable, Modular, or Temporary Classrooms
- Entryways
- Main Office, Lobby, and Reception Area
- Administrative Areas and Staff Offices
- Corridors, Circulation, and Lockers Stairs and Stairwells
- · Classrooms
- · Media Center
- · Health Clinic/Nurse's Office
- · Guidance Office and Conference Rooms
- Restrooms
- · Labs, Shops, and Computer Rooms
- · Art Rooms
- Music Rooms
- · Dance Classrooms
- Cafeterias and Student Commons
- · Auditoriums and Theaters
- · Gymnasiums
- · Locker Rooms
- · Interior Doors
- · Interior Lighting and Ceilings
- Elevators
- · Water Fountains
- Vending Machines and Public Telephones
   Fire Alarm and Control Systems

- Means of Egress in Existing Buildings General Fire Requirements for Existing Buildings
- Storage and Equipment Rooms
- Non-Structural Building Hazards
- **Emergency Shelters**
- COMMUNICATIONS SYSTEMS

- Building Notification SystemsRadio/Wireless Communication Systems

# Hadio/Wireless Communication Systems Telephone Systems Communications Wiring BUILDING ACCESS CONTROL AND SURVEILLANCE Building Access Control CCTV Surveillance Systems UTILITY SYSTEMS Site Utilities Water Supply and Storage

- · Water Supply and Storage EMERGENCY POWER

· General

# MECHANICAL SYSTEMS

- · Fresh Air Intakes
- Air Handling and Filtration
   Equipment Inspection, Maintenance, Recommissioning, and Testing

| 1 | L S | CH | เดด | LSII | RRO | HIN | IDING: | 4 |
|---|-----|----|-----|------|-----|-----|--------|---|
|   |     |    |     |      |     |     |        |   |

| 1 | .1. | <b>Potential</b> | Man-Made | Hazards |
|---|-----|------------------|----------|---------|
|   |     |                  |          |         |

1.1 a Potential threats or targets near the school have been identified, along with their possible impact. New buildings are designed accordingly, and appropriate crisis plans are in place for existing buildings.

Examples of potential threats include chemical plants, gas lines, heavy truck traffic, and railroads. Potential targets include major government buildings, structures with high symbolic value, power plants, communications towers, and dams.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.1 b Hidden areas adjacent to the school that might provide offenders with "cover" or provide students with a location for illicit activities have been made safer by opening them up, exposing them, sealing them off, or other measures.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.1 c Natural surveillance from the surrounding neighborhood is maintained, allowing neighbors and passing patrol cars to help serve as guardians of the school.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.1 d Future development plans in the surrounding area have been identified and school site development planning is being adjusted accordingly.

\_Yes \_No \_Not Applicable Further Study Notes:

# 1.2. Seismic and Wind Hazards

1.2 a In areas prone to earthquakes, the proximity and vulnerability to active geological faults has been investigated. Within the context of local conditions, the site is considered safe, or extra safety measures have been built into the facility to compensate for the risk. In any case, the facility meets all applicable building code requirements for earthquakes.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.2 b In areas prone to earthquakes or high winds, alternate routes into and out of the site have been identified to avoid potential fallen trees, buildings, utility lines, or other hazards.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.2 c In areas prone to earthquakes or high winds, backup and emergency power and communication sources have been incorporated into the design.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.2 d In areas prone to earthquakes or high winds, building setbacks are adequate to prevent battering from falling trees or buildings.

\_Yes \_No \_Not Applicable \_Further Study Notes:

1.2 e In areas prone to earthquakes, high winds, flooding, or other natural or man-made hazards, nearby facilities have been identified as a safe area of refuge or community gathering space. The refuge area is not in

| the li<br>chen               | kely pa<br>nical st | ath of falling build<br>torage areas, or of  | lings or trees, nor<br>ther high risk facili  | is it prone to flooding or adjacent to potential terrorist targets, ilties.       |
|------------------------------|---------------------|--|---|---|
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 1.3. <u>F</u>                | lood h              | fazards                                      |   |   |
| 1.3 a<br>sour                | In are<br>ces flo   | as prone to floodi<br>od.                    | ing, the site is not                          | located in a flood plain nor is it at high risk if nearby water                   |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 1.3 b                        | In are              | as prone to floodi                           | ing, the building d                           | esign incorporates features to protect against flood damage.                      |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 1.3 c                        | in are              | as prone to floodi                           | ng, emergency vel                             | hicles can access the site during high water conditions.                          |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 2 50                         | HUUI                | GROUNDS                                      |   |   |
|                              | ieneral             |  |   |   |
| 2.1 a<br>schoo               | The so              | ·<br>chool has a marqu<br>erty.              | uee or other sign c                           | learly identifying the school by name and visible from beyond                     |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 2.1 b<br>buildi              | The si<br>ngs, la   | ite layout maintair<br>indscaping featur     | ns open sight lines<br>es and lighting.       | throughout through careful placement and maintenance of                           |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 2.1 c                        | The so              | chool site and buil                          | ldings are well ma                            | intained, reinforcing territoriality.   |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 2.1 d<br>and s               | Schoo<br>chool-     | ol property lines ar<br>only areas are sim   | re clearly marked,<br>nilarly marked.         | establishing territoriality. Boundaries between joint-use areas                   |
| Exam <sub>i</sub><br>sculpti | oles of<br>ure, arc | property line marke<br>chitectural features, | ers include fencing,<br>, signs, or changes i | landscaping, natural geographic features, ground surface treatments in elevation. |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 2.1 e                        | In area             | s of high fire risk                          | , fire evacuation si                          | tes are at least 300 feet from at-risk buildings.                                 |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |
| 2.1 f I<br>enforce           | n high<br>ement     | threat areas, borr                           | nb threat evacuation                          | on sites remain confidential to administrators, staff, and law                    |
| _Yes                         | _No                 | _Not Applicable                              | _Further Study                                | Notes:  |

| 2.2. Si | te Acı | cess ( | Conf | iro |
|---------|--------|--------|------|-----|
|---------|--------|--------|------|-----|

| 2.2 a In high threat areas, the pedestrians from entering, a                         | ne perimeter of the si<br>and has this effect as  | te is secured at a level that prevents unauthorized vehicles or far from the school building as possible.   |
|--|---|---|
| _Yes _No _Not Applicable   | Further Study   | Notes:  |
| 2.2 b In high threat areas, v applicant at a time.                                   | ehicle entry beyond o   | checkpoints can be controlled, permitting entry by only one   |
| _Yes _No _Not Applicable   | Further Study   | Notes:  |
| 2.2 c In high threat areas, the  | nere is space outside   | the protected perimeter to pull over and inspect cars.  |
| _Yes _No _Not Applicable   | E _Further Study  | Notes:  |
| 2.2 d All vehicle pathways, accidents, speeding, blind spoints are clearly marked, s | pots and traffic confi  | terfaces with main thoroughfares are designed to avoid<br>licts. Transitional areas between streets and school access<br>Zone" signs.   |
| likelihood of injury due to spe-   | devices such as speed<br>eding vehicles.<br>irection, or are broken<br>treets directly, but not l |   |
| _Yes _No _Not Applicable   | Further Study   | Notes:  |
| 2.2 e Pedestrian safety is a   | ddressed with well de   | esigned crossing areas and separation from vehicle traffic.   |
| <ul><li>b) Electronically controlled "W<br/>c) Pedestrian islands or medi</li></ul>  | is, painted crosswalks,<br>/alk/Don't Walk" lights i<br>an strips provide safe h                  | signs and crossing guards are visible to drivers, and are effective. with countdown displays and push buttons. havens for students crossing streets. de alternatives to walking near traffic. |
| _Yes _No _Not Applicable   | E_Further Study   | Notes:  |
| 2.2 f In high threat areas, m property are secured with le hazards.                  | anholes, utility tunne<br>ocks, gates, or other   | els, culverts, and similar unintended access points to the schoo<br>appropriate devices, without creating additional entrapment   |
| _Yes _No _Not Applicable   | E _Further Study  | Notes:  |
| 2.2 g Perimeter fences, wat territoriality.  | ls, or "hostile vegeta  | tion" provide sufficient access control, surveillance and   |
| Fencing options, including the a) A solid wall or fence blocks                       | eir pros and cons, inclu<br>natural surveillance a  | de:<br>nd can attract graffiti.   |

a) A solid wall or fence blocks natural surveillance and can attract graffiti.
b) A stone or concrete block wall can be an effective barrier against bullets.
c) A solid wall or fence can enhance privacy.
d) Wire mesh fencing usually provides foot holds, making it easy to climb over.
e) Wire mesh fencing is relatively easy to vandalize but often the most economical option.
f) Smaller gauge wire mesh may deter climbing.
g) Powder-coated wire mesh fencing can be more aesthetically pleasing.
h) Wrought iron fencing is low maintenance, vandal resistant, without blocking surveillance or providing foot holds.
i) A short fence can establish territoriality, but is of limited value for controlling access.

| hazar<br>likely<br>unexp<br>(k) "He | ds. A controlled the | ompromise may boints; lockable gat<br>oints; lockable gat<br>parrier for a studer<br>egetation" (dense. | m to take a longer rou<br>e appropriate, such a<br>es provide the school<br>nd trying to escape to<br>thorny groundcover | less, but may also block a pedestrian path serving students who walk attementation they are more exposed to traffic, crime, or environmental is installing gates at selected locations. Open gates at least define with the ability to further secure the site but can also create an or from the site.  Or bushes) often can be used effectively to define boundaries of building it doesn't interfere with natural surveillance. |
|-------------------------------------|---|---|--|--|
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 h<br>closir                     | Site eing acce  | ntry points are cless points when   | early marked, contro<br>necessary.   | ollable, and easily seen from the school. Gates are available for  |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 i l                             | Entry p   | oints to the site   | are kept to a minimu   | ım.  |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 j                               | There a   | are at least two e  | ntry points so that if   | one is blocked, the other can be used.   |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 k                               | In high   | threat areas, the   | ere area perimeter b   | arriers capable of stopping vehicles.  |
| vehicle                             | nces. ı<br>e at imp   | ne anti-ram prote<br>pact. If the anti-ran  | ction should be able t<br>n protection cannot al   | strengthened bollards, street furniture, sculpture, landscaping, walls, o stop the threat vehicle size/weight at the speed attainable by that bsorb the desired kinetic energy, consider adding speed controls tine driveways can also help slow down the vehicle's approach.  |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.21 S<br>activit                   | Site en<br>ies.   | try points can be   | readily observed ar  | nd monitored by staff and students in the course of their normal   |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 m<br>blocks                     | Site en<br>this n   | ntry points are po<br>neans of visual s   | ositioned so that one urveillance, such as   | e individual can monitor as many entries as possible. Nothing signs, trees, shrubs, walls, etc.  |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 n<br>reinfo                     | Unsup<br>rce the  | ervised site entra<br>idea that access  | ences may be secure<br>and parking are for   | ed during low-use times for access control purposes and to school business only.   |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 o \$                            | Site en   | tries provide for   | the ready passage o  | of fire trucks and other emergency vehicles.   |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |
| 2.2 p l                             | Fire hy   | drants on the site  | e are readily visible  | and accessible.  |
| _Yes                                | _No   | _Not Applicable   | _Further Study   | Notes:   |

# 2.3. Site Circulation

| 2.3 a | Emergency | v vehicle acce | ss around the | e buildina | meets local | requirements. |
|-------|-----------|----------------|---------------|------------|-------------|---------------|
|       |           |                |               |            |             |               |

| 2.3 a E                    | merg                        | ency vehicle acc  | ess around the build                            | ding meets local requirements.  |
|----------------------------|-----------------------------|---|---|---|
| grassed                    | d, hard<br>orized           | lened surfaces. Ve  | ehicular access shoul                           | local codes, they should be constructed as wide sidewalks or d be over the curb, rather than via curb cuts that could encourage   |
| _Yes                       | _No                         | _Not Applicable   | _Further Study                                  | Notes:  |
| 2.3 b E                    | Bus, ca<br>hout t           | ar, pedestrian an<br>he site, and traffi                          | d bike traffic are rea<br>ic calming strategies | sonably safe from each other at entry and exit points as well as s discourage speeding throughout the site.   |
| Raised<br>bumps,<br>some o | speed                       | i humps, the elimi  | or bicycle crossings, nation of blind spots,    | median strips, pedestrian safety islands, one way traffic, speed or their remediation through the installation of convex mirrors are  |
| _Yes                       | _No                         | _Not Applicable   | _Further Study                                  | Notes:  |
| 2.3 c lr<br>least 75       | n high<br>5 feet,           | threat areas, the with more distar                                | e distance between be<br>nce for unreinforced   | ouildings and the nearest parking or roadway (setback) is at masonry or wooden walls.   |
| through                    | struct<br>consid            | tural hardening or<br>er relocation of vu                         | by manufacturing add                            | reat cannot be arranged, consider reducing the setback required ditional stand-off protection through barriers and parking restrictions. thin the building or designing a more hazard-resistant building. ened vehicles than for screened vehicles. |
| _Yes                       | _No                         | _Not Applicable   | _Further Study                                  | Notes:  |
| 2.3 d H<br>access          | landic<br>ible ei           | apped parking is<br>ntrance.                                      | s located on the sho                            | rtest route from adjacent parking via an accessible path to an  |
| _Yes                       | _No                         | _Not Applicable   | _Further Study                                  | Notes:  |
| 2.3 e S                    | ite cir                     | culation at peak  | loading and unload                              | ing times is acceptable, without vehicle or pedestrian conflicts.   |
| _Yes                       | _No                         | _Not Applicable   | _Further Study                                  | Notes:  |
| 2.3 f Acpermiss            | dequa<br>sion to            | ite signs, postinç<br>o enter.                                    | gs, or window decals                            | s direct all visitors to the main site entry points in order to gain  |
| 2) Locat<br>3) Easy        | le, rea<br>ted at<br>to rea | idable, well lit, and<br>all entry points on<br>id from an approp | riate distance, such a                          | t languages. t all entry points into the facility. s from a car window when approaching the site by car. tors the route to the main entry, should be included as appropriate.   |
| _Yes                       | _No                         | _Not Applicable   | _Further Study                                  | Notes:  |
| 2.3 g V<br>staff pa        | ehicle<br>rking             | circulation rout<br>are separated as                              | es to service and de<br>s needed and function   | elivery areas, visitors' entry, bus drop-off, student parking, and onal in the context of the site.   |

 $2.3\,h$  Where there are roadways through the site, they are serpentine or otherwise indirect or include traffic calming features, with gates or barriers as needed. Signs prohibit through traffic.

Notes:

\_Yes \_No \_Not Applicable \_Further Study Notes:

\_Yes \_No \_Not Applicable \_Further Study

| 2.3 i Desig<br>the contex                | nated entries, rout<br>of the site.     | ites, and parking lo  | ts for after-hours use are clearly identified and controlled within  |
|--|---|---|--|
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.4. <u>Schoo</u>                        | Bus Areas, Parer                        | nt Pick-Up Areas, ar  | nd Public Transportation   |
| a designate                              | ed and supervised                       | t school entrance, ii   | ctly from a designated, marked loading and unloading zone near<br>n full view of designated school staff. Students do not need to<br>between the bus and the school. |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.4 b Buse                               | s do not have to t                      | pack up to turn or pa   | ark, nor do they have to be parked in double rows.   |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.4 c Areas<br>to avoid ov               | s where students e<br>ercrowding.       | congregate while w  | aiting for buses, and associated pedestrian paths, are adequate  |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.4 d Curb                               | lanes adjacent to                       | school facades are  | marked to prohibit parking.  |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| to be picke                              | d up by parents. <i>I</i>               | ovided in clearly des<br>Areas are large enou<br>al surveillance from | signated, logical locations for students waiting to board buses or<br>ugh to avoid conflict over limited space and are located in a<br>n the main office.            |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.4 f Paren                              | t drop-off and pic                      | k-up zones are clea   | rly designated and separated from bus traffic.   |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.4 g In sch<br>transportat<br>measures. | nools where stude<br>ion access is reas | ents use public trans<br>conably safe due to                          | sportation, the route from the school to the point of public good natural surveillance, traffic safety features, or other  |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.5. Vehicle                             | Parking                                 |   |  |
| 2.5 a Parkii                             | ng areas are withi                      | n view of the main o  | office, other staffed areas, or surveillance cameras.  |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |
| 2.5 b Clear<br>do so.                    | signs or posted r                       | ules identify who is  | allowed to use parking facilities and when they are allowed to   |
| _Yes _No                                 | _Not Applicable                         | _Further Study  | Notes:   |

| 2.5 c Parking spaces are numbered and marked for tunassigned parking spaces are minimized, especially      | the designated users: students, faculty, staff, or visitors.<br>y in student parking zones.  |
|--|--|
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.5 d Visitor parking is located near the main entran  | ce, with clear signs directing visitors to the main office.  |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.5 e A section of the parking lot is reserved for stude site.   | dents who attend part time, or who spend part of the day off-  |
| This makes it easier for the school to secure the main pa<br>and going during the school day.              | arking area during the day, and to pay attention to cars coming  |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.5 f Access to parking areas is limited by curbs, fer   | ncing, gates, and a limited number of entry points.  |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.5 g Gates can close off unnecessary parking entra the perception that school parking areas are private.  | nces during low-use times to control access and reinforce  |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.5 h Student and employee parking areas are separ   | rated or mixed appropriately for the school's circumstances.   |
| Separate parking areas may protect staff cars from valuerload.   | ndalism. They can also make it easier to manage parking  |
| entries, the staff parking entry does not need to be super   | an use proximity cards to gain entry. Unlike publicly accessible rvised. in an area prone to inappropriate behavior in student vehicles. |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.5 i If parking space is at a premium, a specific area  | a is designated for motorcycle parking.  |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.6. Bicycle Parking   |  |
| 2.6 a Bicycle parking areas are sheltered, securable designs make it possible to use U-locks or other effe | , and readily observable from inside the school. Rack ective locking devices.  |
| _Yes _No _Not Applicable _Further Study No   | otes:  |
| 2.7. Pedestrian Pathways and Student Drop-Off Area   | <u>s</u>   |
| 2.7 a Hiding places are minimized or eliminated alon   | ng pedestrian routes.  |

In existing schools, these areas can be exposed to natural surveillance by trimming landscaping, improving lighting, removing solid fencing or installing convex mirrors.

Notes:

\_Yes \_No \_Not Applicable \_Further Study

| 2.7 D Exter                      | or pedestrian and                         | i dicycle routes are                              | located to maximize surveillance from inside the school.  |
|----------------------------------|---|---|---|
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| maintenanc                       | e, free of vandalis                       | sm, and vandal resis                              | other amenities on site are well maintained, designed for easy stant. They don't restrict sidewalk space unreasonably or createnese amenities unattractive to abuse by skateboarders. |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8. School                      | Grounds and Rec                           | reational Areas                                   |   |
| 2.8 a Recre building.            | ational areas and                         | playgrounds are in                                | direct view of front office staff or other staff in the school  |
| Placing play<br>are some op      | areas on higher gr<br>tions for improving | ound, installing lightir<br>natural surveillance. | ng for night games, removing visual obstacles, or installing windows  |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8 b Play a                     | reas have clearly                         | defined boundaries                                | s and are protected by fencing.   |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8 c Play a                     | reas are well sep                         | arated from vehicle                               | traffic.  |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8 d Emergaccess is re          | gency and mainte<br>stricted by fencin    | nance vehicles can<br>g, bollards, gates, c       | readily access play areas and ball fields, while all other vehicle or other features.   |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8 e Stude                      | nt gathering place                        | es are set back from                              | n streets, driveways, and parking areas by at least 50 feet.  |
| drive-by shown                   | otings.<br>chool solved this p            |   | to sell drugs to students, lure them off campus, or victimize them with<br>basketball court on the roof; others incorporate completely contained                                      |
| inner courtys This recon         | imendation may be                         | unworkable in existi                              | ing schools built on a small footprint.   |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8 f There                      | are no hidden are                         | as on the site.                                   |   |
| In existing so<br>street furnitu | hools, landscaping<br>re can be moved o   | ı, signs, vending mac<br>r changed to improve     | chines, bus shelters, trash receptacles, mailboxes, storage sheds, or e natural surveillance.   |
| _Yes _No                         | _Not Applicable                           | _Further Study                                    | Notes:  |
| 2.8 g Acces                      | s points between                          | joint-use recreation                              | nal facilities and the school building are limited and secure.  |
| _YesNo                           | _Not Applicable                           | _Further Study                                    | Notes:  |

2.8 h Sections of the building that are unoccupied or off limits can be sealed off from recreational areas during

| non-           | school             | hours.   |                                  |   |
|----------------|--------------------|--|----------------------------------|---|
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 i          | Pre-kin            | dergarten and kir  | idergarten play area             | s are separated from play areas for older children.                                   |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| areas          | <b>3.</b>          |  |                                  | Ils or fences enclosing pre-school or kindergarten outdoor play                       |
| _Yes           | INO                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 k          | Separa             | ate or limited-acce  | ess facilities are pro           | vided near after-hours or community recreational areas.                               |
| It b           | ars unw            | es restrooms, wate<br>elcome visitors fro<br>help deter littering, | m entering an unsupe             | cans, and vending areas. ervised area of the school and engaging in illicit behavior. |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 I<br>durai | Drinkir<br>ble mat | ng fountains are v<br>erials.                                      | andal-resistant by d             | esign, such as by being wall-mounted and being made of                                |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 m          | Scho               | ol grounds are fre   | e of loose rocks, bri            | icks, or other potential projectiles.   |
| _Yes           | _No                | _Not Applicable  | Further Study                    | Notes:  |
| 2.8 n          | Hard-s             | surface play areas   | are far enough fror              | n classrooms to protect windows and avoid distraction.                                |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 o          | Windo              | ows near hard-sur  | face play areas are <sub>l</sub> | protected.  |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 p          | Bleaci             | hers are well mair   | ntained, with no sign            | s of rust, rot, or splintering.   |
|                |                    | _Not Applicable  |                                  | Notes:  |
| 20~            | Pinore             | hotusan blaasha  |                                  |   |
|                |                    |  |                                  | apment and keep children from falling through.  |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 r          | Handra             | ails and guardrails  | s for bleachers or se            | eating areas are adequate.  |
| _Yes           | _No                | _Not Applicable  | _Further Study                   | Notes:  |
| 2.8 s          | Field I            | nouses and other   | outbuildings are sec             | curable to prevent intruders from gaining entry.                                      |

1) Exterior door hinge pins are not removable from the outside.

| <ol> <li>Hasp screws are one-way or cannot be accessed while the padlock is in place.</li> <li>Deadbolt locks are used.</li> <li>Sliding windows have lift and slide protection.</li> <li>Other windows are kept locked or protected when the building is unoccupied.</li> <li>Alarms should be considered in high-value or high-crime circumstances.</li> </ol> |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.8 t Surfaces around playground equipment have a minimum depth of one foot of wood chips, mulch, sand, pea gravel, safety-tested rubber, or rubber-like mats.   |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.8 u Protective surfaces extend a minimum of 6 feet horizontally in all directions from play equipment. For swings, the surfacing extends in back and front twice the height of the suspending bar.   |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.8 v Play structures more than 30 inches high are spaced at least 9 feet apart.   |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.8 w Playground equipment and areas are well maintained, with no tripping hazards such as exposed concrete footings, stumps, or rocks; no sharp points or edges; and no open "s" hooks or protruding bolt ends.   |  |  |  |  |  |  |  |  |
| More than 200,000 children go to U.S. emergency rooms annually with playground equipment injuries, mostly involving falling.   |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.9. Exterior Lighting   |  |  |  |  |  |  |  |  |
| 2.9 a Exterior lighting is uniform and eliminates pockets of shadow or glare.  |  |  |  |  |  |  |  |  |
| For existing buildings, exterior lighting is best evaluated at night.  |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.9 b Exterior lighting fixtures are vandal resistant, beyond easy reach (12 to 14 feet minimum off the ground), maintainable, and built with break-resistant lenses or protected by cages or other means.   |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.9 c Lighting fixtures are designed to avoid providing handholds for climbing onto the building.  |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.9 d Exterior lighting is well maintained.  |  |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |  |  |  |
| 2.9 e The exterior lighting scheme is effective for enhancing natural surveillance, discouraging trespassing, and preventing school vandalism.   |  |  |  |  |  |  |  |  |

1) Practice either the "full lighting" or the "dark campus" approach after hours. The dark campus approach discourages trespassing inside the building at night (intruders' lights are readily visible) and saves on electricity.

| <ol> <li>A compromise to a complete blackout is to utilize motion detectors to activate lighting as needed.</li> <li>Security lighting should be directed at the building if the building is to be patrolled from the exterior. Lighting should illuminate the grounds if the building is to be patrolled from the interior, without compromising surveillance by creating glare for the observer.</li> <li>Timers or motion detectors should illuminate entry points for the first worker to arrive and the last one to leave.</li> </ol>   |                      |  |  |  |  |  |  |
|--|----------------------|--|--|--|--|--|--|
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.9 f Exterior lighting controls can be centrally accessed from the main administration area.  |                      |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.9 g School lighting avoids excessive illumination of adjacent neighborhoods.   |                      |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.10. Landscaping  |                      |  |  |  |  |  |  |
| 2.10 a Landscaping reinforces access control, natural surveillance, and territoriality and can reduce st damage.   | orm                  |  |  |  |  |  |  |
| Careful design can maintain ample sight lines for effective surveillance.  1) Where fences are used to border property, appropriate landscaping can soften edges while communicating public the message of privacy.  | to the               |  |  |  |  |  |  |
| public the message of privacy.  2) Uninviting neighborhood development can be screened and intrusive noise softened, while discouraging unvisitors.  | wanted               |  |  |  |  |  |  |
| <ul> <li>3) In more rural settings, landscaping can define boundaries without the use of fences.</li> <li>4) Landscaping also can serve to control and direct access and traffic. Trees lining sidewalks or drives can give direction to pedestrian and vehicular traffic while limiting or denying access to identified sections of the school</li> <li>5) Hedges should be kept low enough to expose places where people could otherwise hide.</li> <li>6) North Carolina recommends that shrubs and hedges bordering walkways not exceed 18 inches in height an branches and leaves be kept clear to a minimum height of 8 feet off the ground.</li> <li>7) Large tree canopies have a tremendous capacity to absorb high-speed wind energy from hurricanes and other trees.</li> </ul> | site.<br>d that tree |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.10 b Trees are located far enough away from buildings or are trimmed appropriately, to avoid providing roof, window, or second story access, damage from trees falling on buildings, or a fire hazard in areas at risk of forest or brush fires.   |                      |  |  |  |  |  |  |
| California recommends a minimum distance of 10 feet between buildings and trees.   |                      |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.10 c Trees are well maintained, with dead or weak limbs or trees removed.  |                      |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.10 d Trees are planted far enough away from exits, access roads, equipment, utilities and emergency refuge areas to ensure that, if they blow over or lose large branches, they will not block these areas.  |                      |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |
| 2.10 e In high risk areas, outdoor containers in which explosives could be hidden (such as garbage cans, mailboxes, and recycling or newspaper bins) are kept at least 30 feet from the building and are designed to restrict the size of objects that can be placed inside them or are designed to expose their contents (by using steel mesh, for instance, instead of solid walls).   |                      |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |                      |  |  |  |  |  |  |

| 2.11. Dumpster Enclosure |
|--------------------------|
|--------------------------|

Yes No Not Applicable Further Study Notes:

2.11 b Dumpster enclosures are positioned so that they cannot be used as ladders for gaining access to the school roof.

\_Yes \_No \_Not Applicable \_Further Study Notes:

### 2.12. Storm Water Retention Areas

2.12 a Storm water retention areas, where used, are located to help limit access to school property, demarcate school boundaries, or segregate play and pedestrian areas from heavy vehicular traffic.

\_Yes \_No \_Not Applicable \_Further Study Notes:

2.12 b Fencing around enclosed storm water retention areas doesn't provide footholds for climbing or interfere with natural surveillance of these areas.

\_Yes \_No \_Not Applicable \_Further Study Notes:

2.12 c Storm water pipes over 15 inches in diameter leading to or from storm water retention areas are protected with appropriate grating or metal rebar to prevent access into the retention area or school site.

\_Yes \_No \_Not Applicable \_Further Study Notes:

### 2.13. Site Utilities

2.13 a Access to site utilities, such as electrical transformers, generators, and meters, is limited and secure, and the exposed portions are protected against vandalism and vehicular damage.

\_Yes \_No \_Not Applicable \_Further Study Notes:

2.13 b Site utilities do not create hiding places.

\_Yes \_No \_Not Applicable \_Further Study Notes:

2.13 c Site utilities do not impede access by emergency vehicles.

\_Yes \_No \_Not Applicable \_Further Study Notes:

2.13 d Exterior mechanical equipment enclosures are lockable. Doors have protected hasps, hinges, and deadbolt locks or high security padlocks. Hasps and hinges have secure fasteners and hinge pins are non-removable.

\_Yes \_No \_Not Applicable \_Further Study Notes:

2.13 e Exterior mechanical equipment is difficult to climb and is protected from thrown objects.

| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
|-------------------|---------------------|---|--|---|
| 2.13 f            | Exteri              | ior mechanical eq                               | uipment reachable                              | by vehicles is protected with bollards or other devices.  |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
| 2.13 g            | Mete                | r locations allow a                             | access for meter rea                           | nders without compromising access control for secure areas.   |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
| 3. SCI            | HOOL                | BUILDINGS AND                                   | FACILITIES                                     |   |
| 3.1. <u>G</u>     | eneral              |   |  |   |
| 3.1 a             | Buildi              | ngs are well main                               | tained, with no sign                           | s of graffiti, breakage, neglect, or disrepair.   |
|                   |                     |   |  | order and demonstrate ownership of and respect for school dents, staff, and community.  |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
| contro            | ol featu            | ires or the site ov                             | erall has adequate a                           | igs, either each building has adequate independent access access control features, such as a surrounding, non-climbable e human or electronic surveillance over the site is used. |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
| 3.1 c             | Windo               | ws allow for natu                               | ral surveillance thro                          | oughout as much of the site as possible.  |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
|                   |                     |   |  | o more than one school-within-a-school, or it has in place other nong students and staff.   |
| ln gen<br>makin   | eral, sr<br>g them  | naller schools are potentially more a           | safer schools becaus<br>ccountable for their a | e students are better known to school staff and to each other, ctions.  |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
| 3.1 e<br>from a   | Separa<br>dista     | ate wings, separa<br>nce by colors, ico         | te buildings, and sta<br>ons, or signage. Refl | and-alone, portable or modular classrooms are readily identified ective or lighted markings are ideal.  |
| Clear             | dentific            | cation of buildings                             | and areas greatly aid:                         | s emergency response and rescue efforts.  |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |
| 3.1 f I<br>entrie | f the s<br>s.       | chool is containe                               | d within one buildin                           | g, access into the school is limited to selected, controlled  |
| From a may n      | a secur<br>ot be fe | rity perspective, this<br>easible for other rea | s configuration is usu<br>asons.               | ally the most manageable, although a one-building configuration   |
| _Yes              | _No                 | _Not Applicable                                 | _Further Study                                 | Notes:  |

3.1 g If the school contains asbestos now or has contained asbestos in the past, an asbestos management plan

| per 40 CFR 763, Subpart E, is in place.  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Title 40 of the Code of Federal Regulations (CFR), "Asbestos-Containing Materials in Schools." To acc  | Part 763, contains federal asbestos regulations. Subpart E covers cess Subpart E, go to GPO Access at www.access.gpo.gov.              |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.2. Building Access Control   |  |  |  |  |  |  |  |
| 3.2 a Access into the building is 100% controlla Windows and service entries are not exceptions proximity cards, keys, coded entries, or other decisions.  | able through designated, supervised, or locked entry points.<br>s. Entry is either granted by supervising staff or by using<br>evices. |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.2 b The school layout requires visitors to pass through at least visual screening before they can gain access to bathrooms, service spaces, stairwells, or other amenities inside the school. No one can get inside without being seen close enough by staff to be identified. |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.2 c Portions of the school that are not being u<br>locking wing doors or accordian-style gates, etc  | sed can be readily secured. This can be accomplished by c., provided emergency egress is not blocked.                                  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.2 d Signs, in all relevant languages and with s designated building entries.   | simple maps or diagrams where needed, direct visitors to   |  |  |  |  |  |  |
| Where appropriate, signs may warn in a friendly but laws and regulations.  | firm way about trespassing and illicit behavior and cite applicable  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.2 e High value targets for theft, such as office areas are protected by high security locks and a available for storing valuables.   | s, computer rooms, music rooms, shops, and chemical storage<br>n alarm system, or at least one all-purpose storage room is             |  |  |  |  |  |  |
| Note that chemicals must be stored separately.   |  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.3. Exterior Walls  |  |  |  |  |  |  |  |
| 3.3 a Building niches and recesses are fenced o  | ff, well lit, or observable from inside the building.  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.3 b Walls do not provide footholds, or the top   | 3 to 4 feet nearest the roof are non-climbable.  |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |
| 3.3 c Game lines are provided on walls and surfa   | aces in play areas so that students are not tempted to draw thei   |  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study  | Notes:   |  |  |  |  |  |  |

| 3.4. | Exterior | Doors |
|------|----------|-------|
|------|----------|-------|

| •   | 10 | Tho | number | of av | torior | doore | ic | minimized |  |
|-----|----|-----|--------|-------|--------|-------|----|-----------|--|
| . 1 | 42 | INP | numner | UL 67 | Terior | noore | 15 | minimizea |  |

\_Yes \_No \_Not Applicable \_Further Study Notes:

# 3.4 b All exit doors and gates are equipped with emergency exit hardware and are not locked or secured by any other means.

See the 2003 edition of the International Building Code, Section 1008.1.8, and NFPA 101 Life Safety Code, Section 14.2.2.2 for new educational uses and Section 15.2.2.2 for existing educational uses. Under no circumstances may such doors be otherwise locked or chained shut.

\_Yes \_No \_Not Applicable \_Further Study Notes:

### 3.4 c All exterior doors are designed to prevent unauthorized access into the building.

- a) Exterior doors should have as little exposed hardware as possible.
- b) Exterior doors should be equipped with hinges with non-removable pins.
- c) Exterior exit-only doors do not need handles and locks protruding on the outside. However, it should be possible to open the doors from outside during an emergency in some manner, such as with a proximity card.
- d) Exterior doors should be constructed of steel, aluminum alloy, or solid-core hardwood.
- e) Exterior door frames should be installed without excess flexibility to deter vandals from prying them open.
- f) Exterior glass doors should be fully framed and equipped with breakage-resistant tempered glass.
- g) Exterior door locks used as the primary means of security should be mounted flush to the surface of the door.
- h) Exterior doors should not rely on key-in-knob or other protruding locking devices.
- i) Exterior swinging doors should have a minimum 1-inch deadbolt lock with a 1-inch throw bolt and hardened steel insert, a free-turning brass or steel tapered guard, and, if glass is located within 40 inches of the locking mechanism, double cylinder locks.
- p) Panic bar latches on exterior doors should be protected by pick plates to prevent tools and plastic cards from releasing the bolt.
- k) Exterior doors with panic push-bars should be equipped with tamper-proof deadbolt locks to prevent easy exit after school hours by criminals or vandals. They should also be equipped with an astragal (metal plate) covering the gap between the doors.
- I) The armored strike plate on exterior doors should be securely fastened to the door frame in direct alignment to receive the latch easily.
- m) Key-controlled exterior doors can be equipped with contacts so they can be tied into a central monitoring and control system.
- n) Exterior double doors should be equipped with heavy-duty, multiple-point, long flush bolts.
- o) Doors that are vulnerable to unauthorized use, when students open them from inside the building, can be made more secure by installing door alarms, delayed opening devices, or sensors or cameras monitoring doors from the central office.

Yes No Not Applicable Further Study Notes:

## 3.4 d Exterior doors are sized and arranged to reduce congestion and avoid crowding

Multiple single doors reduce congestion and are recommended over double doors. Wider-than-normal (oversize) doors accommodate movement of equipment and supplies and are recommended for accessible entries and for music, vocational technology, kitchen, and receiving areas.

\_Yes \_No Not Applicable Further Study Notes:

3.4 e Exterior doors have narrow windows, sidelights, fish-eye viewers, or cameras to permit seeing who is on the exterior side. Windows and sidelites are sized and located so that if they are broken, vandals cannot reach through and open the door from the inside.

\_Yes \_No \_Not Applicable \_Further Study Notes:

3.4 f Air-tight exterior doors improve energy efficiency and retard interior contamination during a hazardous chemical or other harmful outdoor release.

| _Yes                                  | _No                                       | _Not Applica   | ble _   | Further Study   |                              | Notes:  |   |                                 |                           |   |
|---------------------------------------|---|--|---|---|------------------------------|---|---|---------------------------------|---------------------------|---|
| 3.4 g                                 | Exteri                                    | or doors are   | design  | ed and certifi  | ed to                        | o resist thro   | wn or wind-l  | olown objec                     | cts.                      |   |
| _Yes                                  | _No                                       | _Not Applica   | ble _l  | Further Study   |                              | Notes:  |   |                                 |                           |   |
| 3.5. <u>W</u>                         | indow                                     | <u>rs</u>  |   |   |                              |   |   |                                 |                           |   |
| weakr                                 | are ar<br>lesses                          | id frames are  | in goo<br>rmanei                                    | a condition, :<br>ntiv closed (r  | and i<br>provi               | transom win<br>ided they are  | idows or oth  | er designs                      | that have                 | ildings, window<br>clear security<br>nergency egress) |
| Califor operat                        | nia su<br>ole win                         | ggests avoidin<br>dows should n  | g sliding<br>ot have                                | g and caseme<br>crank and wo  | ent w.<br>orm-(              | indows, whicl<br>gear openers   | h are associa   | ited with sec                   | curity probl              | ems, and says that                                    |
| _Yes                                  | _No                                       | _Not Applica   | ble _f  | ≃urther Study   |                              | Notes:  |   |                                 |                           |   |
| title ett                             | ecis (                                    | n risk areas, v<br>if explosive b<br>angerous area   | iasts, q  | luntire, and to   | orce                         | d entry. Win  | dows overlo   | ns are desi<br>oking or di      | gned and<br>rectly exp    | located to resist<br>osed to public                   |
| Wind<br>Glaz<br>Glas<br>Bulle<br>Secu | dow op<br>ing sh<br>s-clad<br>at resis    | naros.  Jenings should  Jenings should  Jenina  Jenina | be sma<br>ted or p<br>and lan<br>ould ma<br>eet the | all and located<br>protected with<br>minated polyceet the require<br>requirements | an a<br>an a<br>arbo<br>emer | ay from interional interional interior | or occupied a<br>m.<br>types of acce<br><br>or UL 972 | reas as muc                     | ch as poss<br>ing materia | al.   |
| Windo                                 | w ass                                     | emblies contai<br>Not Applical   | ning for  | ced-entry-res   | istan                        | t glazing sho<br>Notes:   | uld meet the  | requirement                     | s of ASTM                 | 1 F588.   |
| 3.5 c \suffici                        | Windo<br>ent sta                          | ws are locate<br>and-off distan  | d strate<br>ce and                                  | egically, prov<br>other securi  | ridin<br>ty fe               | g natural ligi<br>atures to de  | ht and natur<br>ter vandalisi                         | ai surveilla<br>m.              | nce, while                | providing   |
| Cons<br>window<br>vulnera             | sider ir<br>vs (win<br>able loo<br>estory | dows located l<br>cations.<br>windows allow  | ylights<br>nigh on                                  | (but only if roo<br>interior walls)   | ofs at<br>and                | re fully proted<br>light shelves  | cted from clim<br>in lieu of nor                      | nbers), solar<br>mal-height v   | windows in                | s, or clerestory<br>exposed or<br>o not provide for   |
| Calife                                | ornia s<br>d agai                         | uggests that q   | round fl<br>or natura                               | loor windows<br>al light and ve   | be el<br>ntila               | liminated whe<br>tion in occupi   | ere possible o<br>ied areas and                       | on the buildir<br>I the loss of | ng perimet<br>visual surv | er, but this must be<br>reillance of school           |
| Som                                   | e scho                                    | ol districts prol  | nibit sky   | lights becaus   | e the                        | ey are conside  | ered impossi  | ble to protec                   | t from clim               | bers.   |
| _Yes                                  | _No                                       | _Not Applicat  | ole _F  | urther Study  |                              | Notes:  |   |                                 |                           |   |
| 3.5 d \<br>classro                    | Vindo<br>ooms                             | ws are used to<br>and administr  | o enhai<br>ation a                                  | nce natural s<br>reas.  | urve                         | eillance of co  | ourtyards an  | d school gr                     | ounds, es                 | specially from  |
| Windov<br>school                      | vs in a<br>ground                         | dministrative a<br>Is around it.   | reas ar   | e particularly i  | impo                         | rtant for help  | ing staff mon   | itor the mair                   | n entrance                | area and the  |
| _Yes                                  | _No                                       | _Not Applicab  | ole _F  | urther Study  |                              | Notes:  |   |                                 |                           |   |
| 3.5 e S                               | Secon                                     | d-floor windov   | vs are i  | inaccessible  | or n                         | rotected aga  | ainst huralar   | w                               |                           |   |

| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
|-----------------|------------------|---|---|--|
| 3.5 f<br>louve  | Windo<br>rs, awı | ws intended to se<br>nings, or other de                     | rve as a secondary<br>vices and are readily       | means of escape are not blocked by screens, security grills, y openable from the inside.                                       |
| In Flo          | rida, se         | curity grills or louve                                      | ers may be used if the                            | ey open in one operation with the secondary means of egress.   |
| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.5 g           | Basen            | nent windows are  | protected from una                                | uthorized entry by security grills or window well covers.  |
| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.5 h<br>when   | Tempo<br>used i  | ered and wired gland<br>n doors, sidelites                  | ass meet building co<br>, locations near the      | ode and Consumer Product Safety Commission requirements floor, and other 'hazardous' locations specified by the code.          |
| resista         | ance re          | 2003 edition of the quirements in K-12 be used in its place | 2 facilities and it may r                         | g Code has dropped an exemption for wired glass from high-impact no longer be used in new construction. Newer fire-rated glass |
| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.6. <u>R</u>   | oofs             |   |   |  |
| 3.6 a           | Built-i          | n roof access is f  | rom inside the build                              | ing only. The access point is locked and inside a secure room.   |
| archite         | ectural xisting  | elements that allow   | v climbing to obtain ro<br>ppery finishes or coat | ior roof access ladders or exterior building materials and pof access. ings to exterior pipes and columns and otherwise block  |
| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.6 b<br>vanda  |                  | anical equipment  | enclosures on the ro                              | oof are secured and protected from unauthorized access or  |
| _Yes            | No               | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.6 с           | Acces            | s into the school   | through skylights is                              | blocked by security grilles or other devices.  |
| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.6 d           | Roof p           | parapets are low e  | enough to allow visu                              | al surveillance of the roof from the ground.   |
| _Yes            | No               | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.6 e<br>of egr | Heavy<br>ess.    | roofing materials   | s such as tile and sla                            | ate are securely attached to the structure, especially over point  |
| Falling         | g roof ti        | les are a safety ha   | zard.   |  |
| _Yes            | _No              | _Not Applicable   | _Further Study                                    | Notes:   |
| 3.7. <u>C</u>   | anopie           | es, Awnings, Bree   | zeways, and Covere                                | d Walkways   |

3.7 a Covered walkways and adjoining posts, structures, walls, planters, etc., do not serve to provide climbing

| acces          | ss to ac           | ijoining windows                           | , roots, or other upp                         | er-level areas.   |
|----------------|--------------------|--|---|---|
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.7 b          | Cover              | ed walkways and                            | their surroundings                            | are adequately lit to promote visual surveillance while in use.                         |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.7 с          | Windo              | ws in occupied a                           | reas of the building                          | overlook walkways for natural surveillance.   |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.7 d          | Exterio            | or entrance cano                           | pies and walkways a                           | are engineered to withstand high winds and seismic activity.                            |
|                |                    | _Not Applicable                            |   | Notes:  |
| 3.8. <u>C</u>  | ourtya             | rds  |   |   |
| 3.8 a          | Lines              | of sight across co                         | ourtyards are unobs                           | tructed so one person can supervise the entire area.                                    |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.8 b          | Entries            | s into courtyards                          | from the exterior of                          | the school are controlled and lockable.   |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.8 c          | Courty             | ard entries are n                          | ext to administration                         | n or staff spaces, with windows permitting visual surveillance.                         |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.8 d          | Courty             | ards are configu                           | red to eliminate una                          | uthorized after-hours access.   |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.8 e          | Windo              | ws in occupied a                           | reas of the building                          | overlook courtyards.  |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.8 f          | Courtya            | ard entry doors a                          | re wide enough to p                           | revent congestion.  |
| Avoid fightin  | using s<br>g, espe | winging doors that<br>cially in middle sch | t must be held open b<br>nools.               | y students. Mishaps at swinging doors are a common cause of                             |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.8 g<br>enouç | Outer o            | courtyard walls a                          | re not climbable and<br>sures to eliminate cl | d outside seating, planters, and landscaping features are far<br>limbing opportunities. |
| _Yes           | _No                | _Not Applicable                            | _Further Study                                | Notes:  |
| 3.9. P         | ortable            | , Modular, or Ten                          | nporary Classrooms                            |   |

3.9 a Portable classrooms are not used.

| This is p   | orefera   | able from a safety  | viewpoint but unreal  | istic for many schools.   |
|---|---|---|---|---|
| _Yes  | _No   | _Not Applicable   | _Further Study  | Notes:  |
| 3.9 b T   | he loc  | ation of portable   | s has been careful  | ly thought out to optimize security.  |
| b) Porta<br>one ano<br>c) Porta<br>d) Porta<br>e) Evaci<br>f) Power<br>g) Ramp<br>h) Positi<br>i) Walkw | bles a other a bles a bles a bles a uation rand cos mee toning, vays to | re placed together nd from permaner re gathered within re reasonably clos paths are pre-dete computer cabling a et ADA requiremen , lighting and scree portables are dire | r as much as possiblet structures to meet security fencing, buse to the main school ermined to avoid unrare run in a manner tots, running 1 foot in the pring decisions max | cool's portable classrooms and the pedestrian paths to them. The to prevent avoidable sprawl, but are sufficiently separated from fire code requirements. The thave direct access to the main school. It is students aren't forced to walk long distances between buildings. The reasonable time or distance requirements. That makes them resistant to vandalism, such as underground. It length for every inch of rise. It is imize natural surveillance between and under portables. It is indicated with signs or markings. |
| _Yes _  | _No   | _Not Applicable   | _Further Study  | Notes:  |
| a) Windo<br>b) Comr<br>c) Class   | ows or<br>nunica<br>rooms   | r fisheye viewers pation devices, inclusions to locked an   | iding the PA system   | the classroom to see people outside the classroom. , allow teachers and the office to reach each other. ide the classroom by the teacher.   |
| _Yes  | _No   | _Not Applicable   | _Further Study  | Notes:  |
| 3.9 d Po  | ortabl<br>lictory   | es are clearly and<br>markings.   | d consistently iden   | tified with numbers, words, icons, or colors, without   |
| _Yes  | _No   | _Not Applicable   | _Further Study  | Notes:  |
| 3.9 e Pe<br>regulati  | ortable   | es are adequately   | y tied down, consis   | stent with local wind resistance requirements and building  |
| _Yes _  | _No   | _Not Applicable   | _Further Study  | Notes:  |
| 3.9 f Tr  | ailer h   | nitches and tongu   | ies have been remo  | oved to prevent injuries.   |
| _Yes _  | _No   | _Not Applicable   | _Further Study  | Notes:  |
| 3.9 g Ao<br>suitable  | ccess<br>for h  | beneath portable<br>iding people, cor   | es is restricted with<br>straband, weapons  | n grates, fencing, siding, or other material. There are no spaces<br>, or incendiary or explosive devices.  |
| In high r   | isk loc   | ations, see-throug  | th fencing may be be  | est because nothing can be hidden behind it.  |
| _Yes _  | _No .   | _Not Applicable   | _Further Study  | Notes:  |
| 3.10. <u>En</u>   | itrywa  | <u>ys</u>   |   |   |
| 3.10 a T  | The nu  | ımber of building   | entryways is kept   | to the minimum needed, and all are controlled or supervised.  |
| _Yes _  | _No _   | _Not Applicable   | _Further Study  | Notes:  |

| 3.10 0  | ine r             | nain point of entr                        | y is at the front of th                     | le school and is readily identifiable.  |
|---|-------------------|---|---|---|
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 c<br>visitor   | The r             | nain entry, or a si<br>roaching after pai | upervised, controlled                       | d, designated secondary entry, is the closest entry option for  |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 d<br>and s   | The a             | reas directly out<br>s enough to avoi     | side and inside at th<br>d becoming overcro | e main point of entry are well-lit, sheltered from the elements, wded.  |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
|   |                   | access is adequation                      | ately controlled by a                       | combination of direct supervision, limited points of entry, and   |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 f<br>stude   | Entrie<br>nts asi | s have adequate<br>de for more thoro      | space for security s<br>ough investigation. | creening, including space for queuing, equipment, and pulling   |
| If built  | in met            | al detectors are go                       | ing to be used, conta                       | ct manufacturers to determine space needs.  |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 g  | Entry             | walkways and e                            | ntry doors are wide                         | enough to avoid overcrowding at peak times.   |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 h  | Seco              | ndary entries are                         | protected from the                          | weather but do not provide places for people to hide.   |
|   |                   |   |   | n serve as concealed areas for unwanted activity. Visibility into<br>d) wall corners and adequate glazing and lighting. |
| Yes   | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 i  | Signs             | spell out behavio                         | oral expectations, ac                       | cess-restrictions, and applicable local and state regulations.  |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 j  | If ther           | e is covered seat                         | ing at the main entry                       | or bus loading area, it doesn't obstruct circulation pathways.  |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |
| 3.10 k In high risk areas, entries are designed to mitigate explosive blast hazards. Interior and exterior foyer doors are offset from each other. Doors and walls along the line of security screening meet requirements of UL 752, "Standard for Safety: Bullet-Resisting Equipment." |                   |   |   |   |
| Entry a   | areas s           | hould avoid desigr                        | elements that could                         | entrap an explosion, thus amplifying the impact.  |
| _Yes  | _No               | _Not Applicable                           | _Further Study                              | Notes:  |

3.11. Main Office, Lobby, and Reception Area

| 3.11 a            | The n              | nain office, lobby                       | and reception area                            | s are located at the main entry.  |
|-------------------|--------------------|--|---|---|
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
|                   |                    |  | ee visitors before th<br>lobby, or beyond the | ey gain entry, and can electronically lock doors to block entry e reception desk.   |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| 3.11 c<br>the red | Wher<br>ception    | i the main entry d<br>nist to gain entry | oors are unlocked, s<br>beyond the foyer.     | securable internal foyer doors can oblige visitors to confer with   |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
|                   |                    |  |   | eception area, providing an unimpeded view of adjoining halls, e main entry, and drop-off and visitor parking areas.  |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| protect<br>and a  | tive si<br>rear ex | nield, a panic or d                      | uress button to call                          | rective features, including a counter or desk to serve as a for help, a telephone, a radio base station if radios are used, retreat. In unsafe areas, the reception counter area is protected |
| A safe<br>there i | haven<br>s a tele  | is a windowless rephone for calling f    | oom with a solid door,<br>or help.            | easily locked from the inside without requiring a key, and in which   |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| 3.11 f            | Seatir             | ng areas for visito                      | rs do not impede fo                           | ot traffic.   |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| 3.12. /           | Admini             | strative Areas an                        | d Staff Offices                               |   |
| 3.12 a<br>contai  | Confi<br>ners.     | dential records a                        | re separated from th                          | ne reception area, in locked, vandal- and fire-resistant  |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| 3.12 b            | The r              | nain office has tw                       | o-way communicati                             | on capability with all classrooms.  |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| 3.12 c<br>emerg   | The f              | ront office has a v                      | windowless space o                            | r "safe room" with a lockable door and a telephone for  |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |
| 3.12 d            | The p              | orincipal's office h                     | nas a window or doo                           | or that can serve as a secondary emergency exit.  |
| _Yes              | _No                | _Not Applicable                          | _Further Study                                | Notes:  |

3.13. Corridors, Circulation, and Lockers

| 3.13 a Corr  | idor sight lines a                                    | re maximized.                                 |   |
|--|---|---|---|
| Recesses, n<br>surveillance  | iches, or blind corr<br>cameras, or are sl            | ners are visually exponallow enough in dept   | sed with windows, convex mirrors, chamfered (angled) corners, or the to not serve as hiding areas, or are sealed off against illicit use. |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
| 3.13 b Area water coole  | is for lockers, ver<br>rs are either low <sub>l</sub> | nding machines, tras<br>profile or mounted fi | sh containers, fire extinguishers, display cases, cabinets, and<br>lush with walls to avoid injury and keep a clear view.                 |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
| 3.13 c Free secured.   | standing objects                                      | that could be topple                          | ed intentionally or fall during earthquakes are adequately  |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
| 3.13 d Othe windowed a equipment.  | rwise hidden cor<br>dministrative offi                | ridors and stairwells<br>ces or other spaces  | receive visual surveillance through the placement of occupied by adults or through the use of video surveillance                          |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
| 3.13 e Corri   | dors are well lit w                                   | vith artificial or natu                       | ral lighting, having no dark or shadowed recesses.  |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
| 3.13 f if hall shutters.   | ways double as lo                                     | ockdown or emerge                             | ncy shelter locations, windows can be readily blocked with  |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
| 3.13 g Wall space is used well, with interior glazing to improve surveillance. Walls are covered with or made of materials that make it easy to display student artwork and posters as a means of promoting territoriality, ownership, and connectivity. |   |   |   |
| Note that Sec<br>covering mor  | otion 14.7.3.3 of NF<br>e than 20 percent             | FPA 101, Life Safety (<br>of the wall area.   | Code, 2003, prohibits teaching materials and childrens' artwork from  |
| _Yes _No   | _Not Applicable                                       | _Further Study                                | Notes:  |
|  |   |   |   |

3.13 h Corridor lighting controls are protected from unauthorized use.

\_Yes \_No \_Not Applicable \_Further Study Notes:

- 3.13 i Corridors are wide enough to prevent crowding and provide adequate room for maneuvering wheelchairs.
- Corridors are usually cited as the second most common indoor location for school fights (cafeterias are first), primarily
- because of crowding. Wide corridors prevent crowding and jostling.

   During class changes, corridors also serve as commons areas, and spacious corridors help reduce undesirable behavior.
- -- North Carolina recommends the following corridor widths:
- a) Corridors serving classroom feeder corridors and large-group spaces such as cafeterias, media centers, gyms and auditoriums: elementary and middle schools, 10 feet; high schools, 12 feet.
- b) Classroom corridors serving more than 2 classrooms, 8 feet. c) Classroom corridors serving more than 8 classrooms, 9 feet.
- d) Corridors with lockers along one wall, add 2 feet; with lockers along both walls, add 3 feet.

| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
|---|--|--|--|--|
| 3.13 j Locker locations and designs do not cause crowding or security problems.   |  |  |  |  |
| Options to consider:  a) Lockers are easiest to supervise if they are in controlled classrooms, such as homerooms. b) Lockers in hallways should be mounted flush to the wall so that they don't narrow the hallway. c) Single lockers lead to less conflict than over and under designs. d) Spreading lockers out can help avoid congestion and conflict. e) Unused lockers should be locked. f) If the supply of lockers is excessive, locking every other locker can help avoid congestion. g) Locker bays should not block natural surveillance into or around the bays, or the bays should be electronically monitored. h) Metal mesh doors allow natural surveillance into the lockers. i) Locker bays should be well lit and allow ample room for circulation.   |  |  |  |  |
| <ul> <li>j) Lockers should be bolted in place.</li> <li>k) Assign locker privileges selectively and revoke them for related abuse, such as for storing contraband.</li> <li>l) If nothing else works, consider removing or locking all lockers against any use, even temporarily.</li> </ul>  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.13 k Exit signs are well maintained, easily seen, and pointing in the right direction.  |  |  |  |  |
| The maintenance program for corridor, stairwell, and exit sign lighting should ensure functioning under normal and emergency power conditions.  Expect state or local building codes to be updated to require floor proximity signs, which are needed when heat and smoke drive occupants to crawl along the floor to get out of a building; signs and lights mounted high on the wall or on the ceiling may be of little or no benefit in such situations.  Consider glow-in-the-dark technology.  Good quality, consistent exit lighting is cost-effective in the long term and worthwhile from a maintenance perspective.  Using different exit lighting at different doors makes it harder to efficiently stock, keep track of, and replace parts.  See also Means of Egress in Existing Buildings section, below.  _Yes _No _Not Applicable _Further Study Notes:  3.13 I Clear and precise emergency evacuation maps are posted at critical locations. They are customized or |  |  |  |  |
| posted to match their positions in the building and are protected from vandalism or removal.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.13 m Lockers are locked with school-owned padlocks. The school retains ownership and access to the locks and lockers.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.14. Stairs and Stairwells   |  |  |  |  |
| 3.14 a Stairs are adequately located and designed to avoid congestion and accidents.  |  |  |  |  |
| For efficiently moving large numbers of students, additional sets of stairs may function more safely and effectively than very wide stairs North Carolina requires single stair runs not to exceed 8 feet without a landing and a minimum stair width of 6 feet for grades 6 through 12.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.14 b Stairwells are adequately lit, including exit signs.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |

| 3.14 с            | Stair          | handrails and gua   | ardrails allow visual                         | surveillance from either side of the stairs.   |
|-------------------|----------------|---|---|--|
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.14 d            | Stair          | handrail designs  | discourage sliding,                           | climbing, or skateboarding.  |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.14 e<br>stairs, | Stair<br>or un | risers are enclose<br>der-stair areas are                     | ed to prevent persor<br>e completely blocke   | ns under the stairs from grabbing the ankles of others using the d off.  |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.14 f            | Wind           | ows or openings (   | orovide natural surv                          | eillance into stairwells located on outer walls.   |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.14 g            | Wher           | e natural surveilla   | ance is inadequate,                           | enclosed stairwells are electronically monitored.  |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| adequ             | ate to         | gh risk areas or ar<br>prevent their coll<br>low of evacuees. | eas subject to earth<br>apse and to limit the | equakes or high winds, stairwell materials and designs are extent of falling debris that would impede safe passage and |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.15. <u>C</u>    | lassr          | ooms  |   |  |
| 3.15 a<br>unobs   |                |   | oke or heat detector                          | rs, the detectors are working, paint-free, un-obscured, and  |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.15 b            | Class          | srooms are well li  | t, with as much natu                          | ıral light as possible.  |
| Well lit          | classr         | ooms are safer cla  | ssrooms, and natural                          | light does not depend on a power source.   |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.15 c<br>the cla |                |   | om are visible from                           | the classroom door. There are no hidden areas anywhere in  |
| This ai           | ds nati        | ural surveillance ar  | nd reduces opportunit                         | ies for misbehavior.   |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |
| 3.15 d            | All cl         | assrooms are on   | the public address                            | system.  |
| _Yes              | _No            | _Not Applicable   | _Further Study                                | Notes:   |

3.15 e Intercoms, phones, or radios allow for two-way verbal communication between all classrooms and the

| schoo   | i's adı          | ministrative or se                   | curity offices.                            |   |
|---|------------------|--------------------------------------|--|---|
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 f<br>posted  | Interio          | or windows betweerials.              | een classrooms and                         | corridors are unobstructed by posters, pictures, or other         |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 g  | Inter            | ior windows betw                     | een classrooms and                         | d hallways promote visual surveillance in both directions.        |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 h<br>Door a  | Class<br>ind wi  | srooms can be lo<br>ndow security ha | cked down quickly t<br>rdware allows egres | by faculty from inside the classroom without entering the hall.   |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 i  | Class            | room doors are n                     | nade of metal or soli                      | d wood, with heavy duty, vandal-resistant locks.                  |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 j<br>shatte  | In hig<br>rproof | h risk areas, wind<br>i.             | lows in classrooms                         | facing locations that may be subject to blasts or attack are      |
| See the   | e Wind           | dows section, abov                   | e.   |   |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 k  | Class            | sroom windows e                      | nhance visual surve                        | illance of the school grounds.                                    |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 l<br>relying   | Class<br>on el   | rooms for mobilit<br>evators.        | y-impaired students                        | are on the first floor, or are otherwise easy to evacuate without |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 m All classrooms have secondary escape routes where required by code. Windows designated for escape are readily operable and are not blocked by grills or screens. The room layout helps teachers maintain surveillance and control over these routes. |                  |                                      |  |   |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 n Retractable classroom partitions fully recess into permanent, lockable niches to eliminate hiding places.  |                  |                                      |  |   |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |
| 3.15 o  | Retra            | ctable partitions                    | contain windows or                         | otherwise provide visual access into adjoining spaces.            |
| _Yes  | _No              | _Not Applicable                      | _Further Study                             | Notes:  |

3.15 p Heat-producing appliances are properly guarded.

| As a fire safety measure, heat-producing appliances should be avoided in elementary classrooms and controlled via a "kill switch" with pilot light in middle and high schools.                      | ì   |  |  |
|---|-----|--|--|
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.15 q Teaching materials and children's artwork do not cover more than 20 percent of the wall area.  |     |  |  |
| See Section 14.7.3.3 of NFPA 101, Life Safety Code, 2003.   |     |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16. Media Center  |     |  |  |
| 3.16 a The media center, if jointly used by the school and the community, has separate and secure access fo school use and after-hours activities, restricting access to other areas of the school. | r   |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16 b The media center is well lit, with no dark or shadowy areas.   |     |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16 c The media center's reception area and circulation desk are near the main entrance and are positioned control traffic in and out of the area.   | to  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16 d The media center's reception area and circulation desk positions have unobstructed surveillance of the entire area and are able to monitor all users.  | e   |  |  |
| Low stacks (max. 4 feet high) parallel to the librarian's line of sight help to accomplish this. Shelves along walls can be full height.  | )   |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16 e There are separate, lockable areas for storing media equipment, or other security measures are in place  | :е. |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16 f Adequate theft deterrents are used, such as magnetic strips in books, door readers, and alarmed exits.   |     |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.16 g Storytelling areas or niches are on one level or, if recessed or elevated, are designed to prevent fall injuries or hidden activities.   |     |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |
| 3.17. Health Clinic/Nurse's Office  |     |  |  |
| 3.17 a Clinic equipment and supplies can be locked in an observable area of the nurse's office.   |     |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |     |  |  |

| 3.17 b A vision panel with   | olinds provides natur   | al surveillance into the area as needed.  |  |  |
|--|---|---|--|--|
| _Yes _No _Not Applicable   | e _Further Study  | Notes:  |  |  |
| 3.17 c Toilet room doors in incapacitated.   | health rooms swing  | outward to prevent students from being trapped if   |  |  |
| A fallen student or overturned   | I wheelchair could othe   | rwise block the door.   |  |  |
| _Yes _No _Not Applicable   | eFurther Study  | Notes:  |  |  |
| 3.18. Guidance Office and C  | Conference Rooms  |   |  |  |
| 3.18 a Vision panels with b adult/child conferencing is  | linds are installed in conducted.   | guidance offices and all other areas where one-on-one   |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19. Restrooms  |   |   |  |  |
| 3.19 a Restrooms are brigh   | it, well lit, and easy to   | supervise.  |  |  |
| Restrooms are the fourth b<br>The most common concern  | iggest problem area in<br>is are vandalism, fightir   | schools, primarily because are difficult to supervise.<br>ng, disorderly conduct, and alcohol and drug use. |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19 b Lighting fixtures have  | ve protective, vandalp  | proof covers.   |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19 c Group restrooms ha from adjacent areas.   | ve visually screened,   | door-less ("maze") entryways that allow acoustic surveillance   |  |  |
| _YesNo _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19 d Entry/exit doors on blocked from the inside.  | group restrooms are   | lockable only from the outside and cannot be locked or readily  |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19 e Stall doors and partitions don't exceed 5'-6" in height and have a 1' clearance above the floor for surveillance. Partitions are bolted to the floor, wall, and ceiling. Doors have operable latches. |   |   |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19 f Sinks and hand dryers are located in publicly exposed or semi-exposed areas to deter vandalism and to encourage hand washing.   |   |   |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |
| 3.19 g Access to and natur controlled, requiring keys,   | 3.19 g Access to and natural surveillance over single user bathrooms with locking doors is adequately controlled, requiring keys, passes, or other means. |   |  |  |
| _Yes _No _Not Applicabl  | e _Further Study  | Notes:  |  |  |

| 3.19 h  | 3.19 h Restroom smoke detectors have vandal-resistant features, such as protective cages or tamper alarms. |   |   |   |
|---|--|---|---|---|
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 i  | Restr  | ooms are located  | to maximize visual                            | surveillance, such as near administrative areas.  |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 j<br>be us   | Restred with   | ooms intended fo<br>nout providing ac                           | or use by people eng<br>cess to the rest of t | gaged in after-school activities are conveniently located and can he school.  |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 k  | Resti  | oom fixtures and  | their hardware are                            | made of vandal-resistant, readily cleanable materials.  |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 I  | Expos  | sed hot water pipe  | es are insulated and                          | protected with a cover, as required by the accessibility code.  |
| Particu   | ılarly n   | ote under-sink pipe   | es that might come in                         | to contact with wheelchair users' legs.   |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 m  | Rest   | rooms have hard   | ceilings that prever                          | nt hiding contraband in above-ceiling spaces.   |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 n  | Restr  | ooms have good  | mechanical ventilat                           | ion.  |
| Califor<br>weapo  | nia adv<br>ns, ped   | vises against using<br>ople, or contrabanc                      | windows for ventilati                         | on in bathrooms because windows can serve as passageways for  |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| schoo   | lopera   | e-event restrooms<br>ations. Door hard<br>oor is in a fire-rate | ware permits the do                           | entry/egress and can be locked or restricted during normal ors to be locked in the open position during designated events |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 p Hand dryers, vending equipment, and trash containers are heavy duty, recessed, and fire-resistant. Access to trash containers is lockable. |  |   |   |   |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |
| 3.19 q  | Electi   | ical outlets are p  | rotected by ground                            | fault circuit interrupters (GFCIs).   |
| _Yes  | _No  | _Not Applicable   | _Further Study                                | Notes:  |

 $3.19~\mathrm{r}$  Restrooms are well maintained and do not have an offensive smell. No graffit is present and latches for tiolet stalls are all operable. Mirrors are intact and unbroken.

| legitimate users, boos<br>users, including schoo  | iting safety through their pres<br>of staff, thereby reducing sup- | sence in larger numbers. Poorly maintained restrooms repel legitimate ervision.   |  |  |
|---|--|---|--|--|
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
|   |  | e holders are of a see-through design, making it hard to use them<br>ave been retired from use have all been removed from the walls |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20. Labs, Shops, a  | nd Computer Rooms  |   |  |  |
|   |  | chemicals, tools, or other items that could be used for oors. Hazard placards on the door conform to the requirements               |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 b Staff have dir   | ect surveillance over work   | and entry areas, with no visual obstructions.   |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 c Labs, shops,   | and computer room entries  | s have alarm systems to deter breaking and entering.  |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 d Windows in realarmed.  | ooms with costly equipmer  | nt or hazardous materials are highly burglar resistant, or are  |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 e Fire extinguis   | hers are located in all labo                                       | ratory areas.   |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 f Circuits for ha  | ızardous machines are con  | trolled via "kill switches."  |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 g Laboratories and vocational shops are equipped with eyewash stations. In existing buildings, they are in good working condition. |  |   |  |  |
| _Yes _No _Not Ap  | oplicable _Further Study   | Notes:  |  |  |
| 3.20 h In chemistry labs, logs are maintained for all chemicals and dangerous substances.   |  |   |  |  |
| _Yes _No _Not Ap  | pplicable _Further Study   | Notes:  |  |  |
| 3.20 i In vocational s<br>good working order.   | shops, there is adequate du  | ust removal equipment. In existing buildings, the equipment is in   |  |  |
| _Yes _No _Not Ap  | pplicable _Further Study   | Notes:  |  |  |

Well maintained restrooms promote orderly behavior by demonstrating respect for and ownership of property. They draw

| 3.20 j Paint exterior.  | 3.20 j Paint booths, auto shops, welding booths, and fume hoods are well ventilated and exhaust directly to the exterior. |                       |  |  |
|---|---|-----------------------|--|--|
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.20 k Sawo   | lust, used oil, and   | d other debris are st | ored in fire- and vandal-proof containers.                       |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.20 l An ele   | ectric solenoid ke  | ey-operated shut-off  | switch is installed on each gas line in instructional areas.     |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.20 m Elec   | trical outlets are  | protected by ground   | d fault circuit interrupters (GFCIs).                            |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.20 n Batte  | ery-powered eme   | rgency lights are ins | stalled in chemical storerooms that do not have windows.         |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.21. Art Roc   | oms   |                       |  |  |
| 3.21 a Kilns  | are located in se   | parate rooms with a   | dequate exhaust fans or ducts that vent directly to the outside. |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.21 b Kiln i   | ooms contain no   | stored goods other    | than clay products.  |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.21 c Electi   | rical outlets are p   | protected by ground   | fault circuit interrupters (GFCIs).                              |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.22. <u>Music I</u>  | Rooms   |                       |  |  |
| 3.22 a Facul  | ty have a clear v   | iew of the entire mus | sic room area, including practice and storage room entries.      |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.22 b There are lockable rooms for storing equipment and instruments.    |   |                       |  |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.22 c The music room has an alarm system to deter breaking and entering. |   |                       |  |  |
| _Yes _No  | _Not Applicable   | _Further Study        | Notes:   |  |
| 3.22 d Wind   | ows in music and  | d practice rooms are  | burglar resistant or alarmed.                                    |  |
|   |   | Further Study         | _  |  |

| 3.23.             | Dance   | Classrooms                     |                         |  |  |
|-------------------|---|--------------------------------|-------------------------|--|--|
| 3.23 a<br>injurie | 3.23 a Dance classrooms have suspended wood floors or resilient floor covering systems that reduce impact injuries.   |                                |                         |  |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.23 b            | Mirro   | ors in dance class             | srooms are shatterp     | roof.  |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.24.             | Cafete  | rias and Student               | Commons                 |  |  |
| 3.24 a<br>crowd   | Cafet<br>ling an  | erias and commo<br>d fighting. | on areas have separ     | ate entrances and exits into adjacent corridors to reduce    |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.24 b            | Cafet   | erias and commo                | on areas are well lit a | and have no shadowy or dark areas.                           |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.24 c            | Cafet   | eria and commor                | ns area acoustics are   | e designed to keep noise levels low.                         |  |
| Low no            | oise lev  | els reduce occupa              | ant stress and the inci | dence of misbehavior.  |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.24 d            | There   | e is a clear view o            | f the entire dining a   | rea and serving line from a controlled entry point.          |  |
|                   |   | _Not Applicable                |                         | Notes:   |  |
| 3.24 e            | There   | is sufficient circ             | ulation space betwe     | en and around table areas and serving lines.                 |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.24 f            | The ki  | tchen and servin               | g areas can be secu     | red during and after school hours.                           |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
| 3.24 g<br>buildin | Cafete<br>g.  | erias or common                | s used after school a   | are designed to prevent unauthorized access further into the |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |
|                   | 3.24 h Walk-in coolers, if accessible to students, may be secured when not directly supervised. There is a door release inside the cooler and a distress button that allows an occupant to call for help. In existing buildings, the door release is fully operational. |                                |                         |  |  |
| _Yes              | _No   | _Not Applicable                | _Further Study          | Notes:   |  |

3.24 i Fixed kitchen equipment does not block emergency exit paths.

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Yes
     _No _Not Applicable _Further Study
                                                 Notes:
3.24 j Kitchen and cafeteria evacuation plans are posted and readily visible, as are "Helping a Choking Victim"
and hand-washing instructions.
Yes No Not Applicable Further Study
                                                 Notes:
3.25. Auditoriums and Theaters
3.25 a There are separate, secure, controllable entrances to the auditorium or theater for after-hours activities.
Attendees do not have uncontrolled access to the rest of the school.
_Yes _No _Not Applicable _Further Study
                                                 Notes:
3.25 b Clear sight lines allow for visual surveillance.
_Yes _No Not Applicable Further Study
                                                 Notes:
3.25 c Seating and circulation layouts reduce or eliminate traffic flow conflicts.
Yes No Not Applicable Further Study
                                                 Notes:
3.25 d There is a secure area for stage equipment, props, and tools.
Yes No Not Applicable Further Study
                                                 Notes:
3.25 e Access to catwalks, scaffolding, and upper level platforms is limited and controlled.
_Yes _No _Not Applicable _Further Study
                                                 Notes:
3.25 f Stage lighting and electrical equipment controls are located in locked panels.
_Yes _No _Not Applicable _Further Study
                                                 Notes:
3.25 g The auditorium or theater layout avoids features that could contribute to accidental falls.
An alternative to an orchestra pit is to provide several rows of removable seats at the front of the auditorium.
_Yes _No _Not Applicable _Further Study
                                                 Notes:
3.25 h Stage draperies are non-flammable or fire-retardant.
_Yes _No _Not Applicable _Further Study
                                                 Notes:
3.26. Gymnasiums
3.26 a The gym has separate, secure entrances for school use and after-hours activities. Gym users do not have
uncontrolled access to the rest of the school.
_Yes _No _Not Applicable _Further Study
                                                Notes:
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3.26 b There is a secure area for gym equipment, with an entry visible to gym users and staff.

| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
|---|-------------------|--|--|---|
| 3.26 с  | Walls             | and entryways a                          | are free of hiding pla                     | ces, such as deep niches or recesses.   |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.26 d  | Retra             | ctable partitions                        | can be fully recesse                       | ed into walls and locked in place.  |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.26 e<br>wide o  | Bask<br>n the     | etball courts are ends.                  | provided with safety                       | borders that are at least 6 feet wide on the sides and 8 feet   |
| Walls   | or proti          | rusions at the ends                      | s of courts may requir                     | e padding where safety borders are too narrow.  |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| guardr<br>they a  | ails, h<br>re equ | nandrails, and fall<br>ipped with safety | -through protection<br>reatures that preve | ondition, free of sharp edges and splinters. They have as appropriate. If the bleachers are electronically controlled, nt entrapment of people as they close. Control buttons are a clear view around, under, and behind the bleachers. |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| <del></del>   |                   | Rooms                                    |  |   |
| 3.27 a  | Coac              | hes offices are lo                       | cated at locker roor                       | n entries, providing unobstructed views of the locker rooms.  |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.27 b Locker rooms are designed to maintain natural surveillance, with lockers recessed in perimeter walls and adequately spaced to avoid overcrowding, or, if freestanding, limited in height to 4 feet or placed in rows perpendicular to office window walls. |                   |  |  |   |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.27 c  | The I             | ocker room has a                         | solid ceiling so cor                       | ntraband cannot be hidden in above-ceiling spaces.  |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.27 d<br>shatte  | Lock<br>rproof    | er room windows<br>i.                    | , fixtures, and hardv                      | vare are vandal and impact resistant, and mirrors are   |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.27 e Lockers are of the open mesh type, making concealment of prohibited items more difficult.  |                   |  |  |   |
| _Yes  | _No               | _Not Applicable                          | _Further Study                             | Notes:  |
| 3.27 f Electrical outlets are protected by ground fault circuit interrupters (GFCIs).   |                   |  |  |   |
|   |                   | _Not Applicable                          |  | Notes:  |

| 3.27 g If separate locker rooms are provided for visiting teams, their doors are clearly labeled "Visiting Team Lockers" and are not adjacent to those of home team locker rooms.   |   |  |  |  |  |
|---|---|--|--|--|--|
| Separation and clear labeling help avoid confusion and conflict.  |   |  |  |  |  |
| _Yes _No _Not Applic  | cable _Further Study  | Notes:   |  |  |  |
| 3.27 h Lockers are locked with school-owned padlocks. The school retains ownership and access to the locks and lockers.   |   |  |  |  |  |
| _Yes _No _Not Applic  | cable _Further Study  | Notes:   |  |  |  |
| 3.28. Interior Doors  |   |  |  |  |  |
| 3.28 a Door hardware a  | llows staff to quickly loc  | k rooms from the inside without having to step into the hallway. |  |  |  |
| See also Classrooms, abo  | ove.  |  |  |  |  |
| _Yes _No _Not Applic  | cable _Further Study  | Notes:   |  |  |  |
| 3.28 b Door access dev where students have se   | ices such as master key<br>cured themselves.  | s or proximity cards allow staff to gain quick entry to any room |  |  |  |
| _Yes _No _Not Applic  | able _Further Study   | Notes:   |  |  |  |
| 3.28 c Hardware does n security officers in purs  | ot permit criminals or va<br>uit.   | andals to lock hall doors as a way of significantly slowing down |  |  |  |
| _Yes _No _Not Applic  | able _Further Study   | Notes:   |  |  |  |
| 3.28 d Classroom doors  | s can always be opened t  | from the inside for emergency egress purposes.                   |  |  |  |
| _Yes _No _Not Applic  | able _Further Study   | Notes:   |  |  |  |
| 3.28 e Recessed door e  | ntries are angled or char   | mfered.  |  |  |  |
| Chamfered door entry rec<br>minimize pedestrian collisi   | Chamfered door entry recesses are inset at 45 rather than 90 degrees to reduce opportunities for concealment and to minimize pedestrian collisions and conflicts. |  |  |  |  |
| _Yes _No _Not Applic  | able _Further Study   | Notes:   |  |  |  |
| 3.28 f Interior doors are sized and arranged to reduce congestion and avoid crowding.   |   |  |  |  |  |
| Multiple single doors reduce congestion and are recommended over double doors Wider-than-normal (oversize) doors accommodate movement of large items and are recommended for accessible areas, music rooms, vocational development spaces, kitchens, and receiving areas See similar requirement under the Exterior Doors section, above. |   |  |  |  |  |
| _Yes _No _Not Applica   | able _Further Study   | Notes:   |  |  |  |
| 3.28 g Recessed doors do not project more than 7 inches into the corridor.  |   |  |  |  |  |
| Section 1005.2 of the 2003 International Building Code does not permit a fully opened door to project into a corridor (a path of egress travel) by more than seven inches.  |   |  |  |  |  |

Notes:

\_Yes \_No \_Not Applicable \_Further Study

## 3.29. Interior Lighting and Ceilings

3.29 a In areas subject to earthquakes, suspended lighting fixtures, suspended ceiling systems, and other

| overhead components and objects an are braced and provided with safety wires.  |  |  |  |  |  |
|--|--|--|--|--|--|
| An earthquake can subject structural and non-structural building components and their connections to loads for which they were not designed, resulting in injury or death from falling debris.  Lighting fixtures, ceiling systems, and other overhead components or objects should be mounted to minimize the likelihood that they will fall and injure building occupants.  Equipment mountings should resist forces of 0.5 times the component's weight in any direction and 1.5 times its weight in the downward direction. This does not preclude the need to design equipment mountings for forces required by other seismic standards.  Lay-in fluorescent lights must be supported independent of the ceiling grid. Spot lights and track lights must be securely attached to the structure. |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |
| 3.29 b Lighting is designed to be easy to clean, and bulbs and tubes are easy to replace. In existing buildings, the lighting is well maintained.  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |
| 3.29 c Light levels are appropriate and uniform, creating minimal glare or pockets of shadow.  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |
| 3.29 d Daylighting or emergency lighting is provided in areas containing hazardous equipment to enhance safe movement during power interruptions.  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |
| 3.29 e Daylighting is provided extensively throughout the school as a means of enhancing safety, especially in classrooms, with the exception of mass shelter areas.   |  |  |  |  |  |
| See similar criterion under Classrooms.  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |
| 3.29 f Light switches for restrooms and corridors are designed so that students cannot operate them, or the switches are located in lockable panels, are centrally controlled by school staff, or are movement-activated.  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |
| 3.29 g Fluorescent lighting fixtures manufactured before 1979 contain both mercury and PCBs. These have been replaced with PCB-free models and have been disposed of as required by law. Most types of high-intensity discharge (HID) lamps (mercury vapor, metal halide, and high-pressure sodium) also contain mercury.  |  |  |  |  |  |
| For more information, see http://www.epa.gov/Region9/cross_pr/p2/projects/pcbs.html  |  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:   |  |  |  |  |  |

## 3.30. Elevators

3.30 a Elevators have adequate security measures in place to address local conditions. Elevator cabs and landing areas are well lit.

| Options include: a) Limiting use and access to authorized individuals. b) Installing elevators in the main lobby or other areas with good visual surveillance. c) Including a 5-foot-deep landing area in front of the elevator, out of hallway traffic, to minimize traffic conflicts. d) Installing video cameras in front of and within elevator cabs. e) Providing elevator recall and emergency message capability.  |  |  |  |  |
|---|--|--|--|--|
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.31. Water Fountains   |  |  |  |  |
| 3.31 a Water fountains are wheelchair accessible.   |  |  |  |  |
| Water fountains should be accessibly located The spout should be at most 36 inches off the floor, with at least 27 inches of clearance for wheelchair users'legs beneath the apron of the fountain Avoid foot-operated fountains, which don't work for wheelchair users. Push-bar or lever designs work well.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.31 b Water fountains do not impede traffic flow or lead to overcrowding or conflicts.   |  |  |  |  |
| Options include:  1) Fountains are placed in gathering areas that are typically monitored, or in an area of natural surveillance.  2) Fountains are in recessed areas that can be closed off by a roll-down security grill.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.31 c Water fountains are vandal resistant in materials and placement, solidly mounted, and well secured. Spash guards are made of soft, bendable material.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.32. Vending Machines and Public Telephones  |  |  |  |  |
| 3.32 a Vending machines and public telephones are located in well-monitored activity areas rather than in isolated areas.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.32 b Vending machines are recessed flush in alcoves that do not provide hiding places.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.32 c Outdoor vending machines are adequately secured for local conditions.  |  |  |  |  |
| <ul> <li>If subject to vandalism, vending machines can be enclosed in a recessed area that can be closed off by a roll-down security grill or in wire cages with hand openings for operating the machines.</li> <li>Wire cages can look menacing, however, and should be used as a last resort.</li> <li>It's preferable to temporarily remove or relocate machines to a location easier to control.</li> <li>Many health experts advocate doing away with vending machines.</li> </ul> |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 3.32 d Vending machines and public telephones don't impede natural surveillance or cause foot traffic conflicts.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |

| 3.32 e A pay phone, emergency call station, or similar device is available external to the building for after-hours emergencies. |   |                                       |                              |  |
|--|---|---------------------------------------|------------------------------|--|
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33. <u>F</u>   | ire Ala   | arm and Control                       | Systems                      |  |
| 3.33 a<br>and are  | All fir<br>e in go  | re alarms and cor<br>ood working orde | ntrol systems meet le<br>er. | ocal code requirements, are maintained by qualified personnel, |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 b   | Fire e  | extinguishers, pu                     | Il stations, and stand       | dpipe cabinets are located where they can be easily monitored. |
| Pull sta   | itions (  | chronically used fo                   | r false alarms can be        | put under electronic surveillance.                             |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 c<br>everyo   | Alarn<br>ne in  | ns can be perceiv<br>the area.        | ed and recognized a          | as evacuation signals above ambient noise or light levels by   |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 d   | Fire a  | ılarm panels are ı                    | not accessible to un         | authorized personnel.  |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 e   | There   | is redundant off                      | -premises fire alarm         | reporting, such as to a fire station or a monitoring center.   |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 f   | Fire-d  | etection equipme                      | ent is reasonably pro        | ptected from incapacitating mechanical or physical impact.     |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 g Outdoor fire detection and response systems are protected against vandalism, corrosion, and the elements.                 |   |                                       |                              |  |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.33 h An alarm system backup battery or emergency generator can operate the system for 24 hours.                                |   |                                       |                              |  |
| This pro   | otects  | occupants if the po                   | ower goes out or the s       | school is used as a temporary shelter.                         |
| _Yes   | _No   | _Not Applicable                       | _Further Study               | Notes:   |
| 3.34. Means of Egress in Existing Buildings  |   |                                       |                              |  |
| 3.34 a Every passageway from corridors and stairs to the street is clear of obstructions or impediments.                         |   |                                       |                              |  |
| Exampl<br>racks, a   | Examples of violations are empty boxes, boxes of used fluorescent light tubes, carts, lawnmowers, steel racks, ball racks, and stored equipment, and tripping hazards such as electric cords, tools, lumber, and hoses. |                                       |                              |  |

Notes:

\_Yes \_No \_Not Applicable \_Further Study

| 3.34 k                     | Exit  | doors have no lo                             | cks, chains, or faste                       | nings to prevent escape from inside the building.  |  |
|----------------------------|---|--|---|--|--|
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| 3.34 c                     | Area  | s required by the                            | building or fire cod                        | e to have two exits have, in fact, two functioning exits.  |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| 3.34 c<br>peopl            | l Exit (<br>e.  | doors open in the                            | direction of egress                         | travel from areas designed to be occupied by more than 50  |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| 3.34 e                     | All eg  | gress paths are 28                           | 3 inches or more in                         | width.   |  |
| Exam <sub>l</sub><br>betwe | oles of<br>en row   | violations include a<br>s of desks or table: | a space of only 17 inc<br>s.                | ches between a desk and wall in an egress path or only 14 inches   |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| distin                     | m app<br>ctive ir   | ropriate language<br>1 color and easily      | s, so everyone read<br>distinguished from   | visible, conspicuously indicated and reliably illuminated, with dily knows the direction of escape from any point. Exit signs are decorations, finishes, and other signs. "EXIT" lettering is at s than 3/4-inch wide. |  |
| Decora                     | ations o  | or other materials o                         | cannot obstruct the vi                      | ew of, or access through, any element of a means of egress.  |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| 3.34 g                     | Exits   | do not rely on pa                            | ssage through roon                          | ns or spaces subject to locking.   |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| 3.34 h<br>staff, d         | 3.34 h Storage or use of flammable or combustible materials in exit ways is explicitly prohibited and school staff, contractors, and others using the school understand this. |  |   |  |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study′                             | Notes:   |  |
| 3.34 i<br>exits,           | Doors<br>are ma   | , passageways, o<br>rked with a "NOT         | r stairways that are<br>AN EXIT" sign or si | neither exits nor leading to exits, but that can be mistaken for imilar designation.   |  |
| Other a                    | appropi   | iate marking would                           | d be "To Basement,"                         | "To Store Room," "To Mechanical Room," etc.  |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |
| 3.35. <u>G</u>             | 3.35. General Fire Requirements for Existing Buildings  |  |   |  |  |
| 3.35 a                     | All fire  | e doors are tight f                          | itting and in good o                        | perational condition.  |  |
| _Yes                       | _No   | _Not Applicable                              | _Further Study                              | Notes:   |  |

 $3.35\ b$  There are no openings in walls, floors, ceilings, or above-ceiling spaces that would contribute to the spread of fire or smoke from one room to another.

| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
|---------------------------------------|-------------------|--|---|--|
| 3.35 c                                | Vertic            | cal clearance bety   | ween sprinklers and                         | objects below them is at least 18 inches.  |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.35 d                                | There             | e is adequate clea   | ırance between stor                         | ed materials and light fixtures or heaters.  |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.35 e                                | Deco              | rative materials, o  | curtains, draperies,                        | streamers, and fabrics are flame resistant.  |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.35 f                                | Teach             | ning materials and   | d children's artwork                        | cover 20 percent or less of the wall area.   |
| See S                                 | ection            | 14.7.3.3 of NFPA 1   | 01, Life Safety Code                        | , 2003.  |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.36. §                               | Storage           | e and Equipment  | Rooms                                       |  |
| equip                                 | ment a            | oms containing r<br>re identified by n<br>al equipment is lo | umber or simply as                          | al, communications, water, fire, security, and other critical<br>"Equipment Room" to help prevent intruders from knowing |
| Check                                 | with lo           | cal emergency se   | rvices to ensure they                       | are comfortable with this kind of unspecific designation.  |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.36 b<br>deadb                       | Doors             | s to these rooms<br>ks, and high secu                        | are made of metal o<br>urity strike plates. | r solid wood, with concealed hinges, pick plates, high quality   |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.36 с                                | Chem              | nical storage area   | s are labeled with a                        | ppropriate NFPA hazard diagrams.   |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.36 d<br>tools,                      | Custo<br>or mas   | odial closets cont<br>ster keys, are kep                     | aining cleaning solv<br>t securely locked.  | ents or other potentially toxic materials, potentially hazardous   |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.37. Non-Structural Building Hazards |                   |  |   |  |
| 3.37 a<br>satelli                     | In hig<br>te dish | h risk, earthquak<br>es, etc., are adeq                      | e-prone, or wind haz<br>uately secured agai | zard areas, roof tiles, parapets, cornices, balconies, signs,<br>nst falling.  |
| _Yes                                  | _No               | _Not Applicable  | _Further Study                              | Notes:   |
| 3.37 b<br>hangir                      | In hig<br>ng plar | h risk or earthquats, file cabinets,                         | ake-prone areas, fre<br>lockers, bookshelve | e-standing appliances, office equipment, sculpture, TVs, es, aquariums, and other unsecured heavy objects, along with    |

| _Yes _No _Not Applicable _Further Study   | Notes:  |  |  |  |
|---|---|--|--|--|
| 3.37 c In high risk or earthquake-prone areas, he equipment and gauges are protected against vib  | eavy mechanical equipment is adequately secured. Sensitive tration damage.  |  |  |  |
| For instance, spring isolated equipment is restrained   | f from jumping off isolators.   |  |  |  |
| _Yes _No _Not Applicable _Further Study   | Notes:  |  |  |  |
| 3.37 d In high risk or earthquake-prone areas, pathe structure above.   | artitions that terminate at hung ceilings are properly braced to  |  |  |  |
| Heavy partitions are particularly vulnerable to strong and are prone to damage. They are particularly dang  | earthquake or explosive forces because of their stiffness and mass, gerous around stairs and exit ways.                                   |  |  |  |
| _Yes _No _Not Applicable _Further Study   | Notes:  |  |  |  |
| 3.37 e In high risk or earthquake-prone areas, ce braced or supported.  | eilingsparticularly heavy lath or plaster ceilingsare adequately  |  |  |  |
| Suspended ceilings require diagonal bracing. Plaste structural framing.   | r and gypsum board ceilings and soffits should be secured to  |  |  |  |
| _Yes _No _Not Applicable _Further Study   | Notes:  |  |  |  |
| 3.38. Emergency Shelters  |   |  |  |  |
| 3.38 a In high risk or wind hazard areas, spaces used for refuge, such as school gymnasiums, hallways, or other windowless areas are identified, with special consideration given to egress, lockdown ability, and emergency supply storage.  |   |  |  |  |
| other windowiess areas are identified, with speci   | used for refuge, such as school gymnasiums, hallways, or<br>al consideration given to egress, lockdown ability, and                       |  |  |  |
| other windowiess areas are identified, with speci   | used for refuge, such as school gymnasiums, hallways, or all consideration given to egress, lockdown ability, and  Notes:                 |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  | al consideration given to egress, lockdown ability, and   |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  | al consideration given to egress, lockdown ability, and  Notes:   |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  3.38 b In wind hazard areas, large shelter spaces Long-span-construction is normally inadequate.  | al consideration given to egress, lockdown ability, and  Notes:   |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  3.38 b In wind hazard areas, large shelter spaces Long-span-construction is normally inadequateYes _No _Not Applicable _Further Study   | Notes:  Notes:  Notes:  Notes:  |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  3.38 b In wind hazard areas, large shelter spaces Long-span-construction is normally inadequateYes _No _Not Applicable _Further Study  3.38 c Areas used as safe havens in high wind ar   | Notes:  Notes:  Notes:  Notes:  |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  3.38 b In wind hazard areas, large shelter spaces Long-span-construction is normally inadequate.  _Yes _No _Not Applicable _Further Study  3.38 c Areas used as safe havens in high wind ar or equivalents with which to cover windows and it  _Yes _No _Not Applicable _Further Study  4. COMMUNICATIONS SYSTEMS   | Notes:  Notes:  Notes:  Notes:  Notes:  Notes:  Notes:  |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  3.38 b In wind hazard areas, large shelter spaces Long-span-construction is normally inadequate.  _Yes _No _Not Applicable _Further Study  3.38 c Areas used as safe havens in high wind ar or equivalents with which to cover windows and it  _Yes _No _Not Applicable _Further Study  4. COMMUNICATIONS SYSTEMS  4.1. Building Notification Systems  4.1 a A mass notification system reaches all building Notification systems | Notes:  Notes:  Notes:  Notes:  Peas either have no windows or have readily available shutters block projectiles or flying glass.  Notes: |  |  |  |
| emergency supply storage.  _Yes _No _Not Applicable _Further Study  3.38 b In wind hazard areas, large shelter spaces Long-span-construction is normally inadequate.  _Yes _No _Not Applicable _Further Study  3.38 c Areas used as safe havens in high wind ar or equivalents with which to cover windows and it  _Yes _No _Not Applicable _Further Study  4. COMMUNICATIONS SYSTEMS  4.1. Building Notification Systems  4.1 a A mass notification system reaches all build override, etc.) and is supplied with emergency po   | Notes:  Notes:  Notes:  Notes:  Peas either have no windows or have readily available shutters block projectiles or flying glass.  Notes: |  |  |  |

Notes:

ductwork, water heaters and other tanks, are adequately secured against falling.

\_Yes \_No \_Not Applicable \_Further Study

| 4.1 b An uninterruptible power supply (UPS) provides emergency backup power.  |  |  |  |  |
|---|--|--|--|--|
| A UPS should be located at all computerized points, from the main distribution facility to individual data closets and a critical personal computers/terminals Critical LAN sections should also have uninterruptible power.                                      |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 4.1 c In high risk, earthquake-prone, and wind hazard areas, exterior communication system components are adequately braced and supported. In high risk and earthquake-prone areas, interior communication system components are adequately braced and supported. |  |  |  |  |
| Post- event communications are vital for issuing instructions to school administrators, students, faculty, and staff. Some components, such as satellite disc antennas, are easily damaged if not adequately supported.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 4.2. Radio/Wireless Communication Systems   |  |  |  |  |
| 4.2 a The facility has the necessary transmitters, receivers, and repeaters to ensure radio communication by EMS personnel everywhere in the building.  |  |  |  |  |
| Radio frequency communication may not be possible within parts of larger schools, particularly if their construction incorporates many steel components, such as structural steel framing, steel bar joists, steel studs, and metal roof and floor decking.       |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 4.2 b A sufficient number of hand-held two-way radios or cellular phones are available to staff.  |  |  |  |  |
| The principal, vice principal, front office staff, playground supervisors, bus drivers, custodians, lunch duty staff, crossing guards, and school resource officers should have these devices.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 4.3. Telephone Systems  |  |  |  |  |
| 4.3 a The main telephone distribution room is secure.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 4.3 b The telephone system has an uninterruptible power supply (UPS).   |  |  |  |  |
| Many telephone systems are computerized and need a UPS to ensure reliability during power fluctuations The UPS is also needed while waiting for emergency power to come on line or to allow an orderly shutdown.  |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
| 4.4. Communications Wiring  |  |  |  |  |
| 4.4 a In high risk areas, communications system wiring is distributed in secure chases and risers, or otherwise secure areas, to prevent tampering.   |  |  |  |  |
| _Yes _No _Not Applicable _Further Study Notes:  |  |  |  |  |
|   |  |  |  |  |

4.4 b Panic or duress alarm buttons are installed at the reception desk.

\_Yes \_No \_Not Applicable Further Study Notes: 4.4 c In high risk areas, panic button or intercom call boxes are used in parking areas, at entry points, in isolated areas, or along the building perimeter as needed. Where permanent buttons are impractical, individuals carry pendant alarms. \_Yes \_No \_Not Applicable \_Further Study Notes: 5. BUILDING ACCESS CONTROL AND SURVEILLANCE 5.1. Building Access Control 5.1 a A basic security alarm system is installed throughout hallways, administrative offices, exit doors, and rooms containing high-value property such as computers, shop equipment, laboratory supplies, and musical instruments. -- As needs and budgets allow, use room alarm, motion detection, and electronic surveillance systems at primary and secondary entry points, stairwells, courtyards, unsupervised or hidden areas inside the building and along the building perimeter, rooms containing valuable equipment or student records, and in rooms containing dangerous chemicals such as chemistry labs and maintenance supply areas. -- Have expert contractors install and maintain these systems. \_Yes \_No \_Not Applicable \_Further Study Notes: 5.1 b Card access systems are installed throughout the campus for use by students and staff. Card access systems greatly simplify access control and eliminate problems associated with lost keys and massive rekevina. \_Yes \_No \_Not Applicable \_Further Study Notes: 5.1 c Where keyed locks are used, a master key control system is in place to monitor keys and duplicates. \_Yes \_No \_Not Applicable \_Further Study Notes: 5.1 d Devices used for physical security are integrated with computer security systems. For example, they are used in place of or in combination with user ID and system passwords. \_Yes \_No \_Not Applicable \_Further Study Notes: 5.1 e In high risk areas, magnetometers (metal detectors) and x-ray equipment are installed. Where installed, they are used effectively. \_Yes \_No \_Not Applicable Further Study Notes: 5.1 f Access to information on building operations, schematics, procedures, detailed drawings, and specifications is controlled and available only to authorized personnel. \_Yes \_No \_Not Applicable \_Further Study Notes: 5.2. CCTV Surveillance Systems

5.2 a CCTV camera systems cover appropriate areas of the school and record to digital or tape devices, which are set up to send images to printers or be downloaded onto disks. The pictures printed from this equipment

| provide clear enough im  | ages to identify suspec                                | ts in a court of law.   |  |  |
|--|--|---|--|--|
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 5.2 b CCTV cameras use needed for dark areas or  | e lenses that capture us<br>at night.                  | seful images under existing lighting conditions. Infrared is used if  |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 5.2 c Cameras are trigge   | ered by motion or intrus                               | sion.   |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 5.2 d Camera housings a temperature or moisture  | are designed to protect                                | against tampering, vandalism, and exposure to extreme   |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 5.2 e Cameras have an ι supply.  | uninterruptible power su                               | upply and are connected to the building's emergency power   |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 6. UTILITY SYSTEMS 6.1. Site Utilities   |  |   |  |  |
| 6.1 a Utility lifelines (wat<br>vandalism and natural di<br>entry into the building, a   | sasters, preferably by o                               | and internet communications, etc.) are adequately protected from concealing, burying, or encasing. They are protected at points of    |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 6.1 b Critical systems (e humidity exceeding norm  | .g., main telephone swi<br>nal operation limits.       | tch room) are protected against extreme temperature and   |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 6.1 c In high risk areas, there are multiple, redundant locations for the telephone and communications service entering the site and serving the building. |  |   |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |
| 6.2. Water Supply and Storage  |  |   |  |  |
| 6.2 a In high risk, wind hazard, and flood prone areas, water supply lines and storage are adequately protected.   |  |   |  |  |
| Although bottled water can other needs, such as flushi humidification, etc.  | satisfy requirements for ing toilets, building heating | drinking water and minimal sanitation, domestic water meets many<br>ag and cooling system operation, cooling of emergency generators, |  |  |
| _Yes _No _Not Applica  | able _Further Study                                    | Notes:  |  |  |

6.2 b Only authorized personnel have access to the water supply and its components.

| _Yes                       | _No                            | _Not Applicable   | _Further Study                             | Notes:  |
|----------------------------|--------------------------------|---|--|---|
| 7. EME                     | ERGEN                          | CY POWER  |  |   |
| 7.1. <u>G</u> e            | enerai                         |   |  |   |
| 7.1 a l                    | Provisi                        | ons for emergen   | cy power througho                          | ut the building, and especially for critical areas, are in place.   |
|                            |                                | _Not Applicable   |  | Notes:  |
| ***                        | <b>-,</b> .                    |   |  |   |
|                            |                                |   |  | ency power from sources such as portable generators.  |
| _Yes                       | _No                            | _Not Applicable   | _Further Study                             | Notes:  |
| nackal                     | POME                           | hazard areas, no<br>r to be affected b<br>tions as far apar     | ov a single incident                       | e allows both the normal electrical service and the emergency<br>. Emergency and normal electrical equipment are installed at   |
| _Yes                       | _No                            | _Not Applicable   | _Further Study                             | Notes:  |
|                            |                                | AL SYSTEMS  |  |   |
| Fresi<br>enclosi<br>tossed | h air in<br>ures, a<br>onto ti | takes are installe<br>nd are protected<br>hem.                  | ed at less than 12 fe<br>by metal mesh slo | placed high on exterior walls, at least 12 feet off the ground (or<br>way from vehicle exhaust-laden areas.<br>set off the ground, they are within secure fenced areas, cages or<br>ped at least 45 degrees to reduce the threat of objects being |
|                            |                                |   |  | kes and separated by the maximum distance possible.   |
| wall                       | make r                         | ed air intake locati<br>neights should be<br>ovide access to th | increased where exis                       | o flying debris in high winds, so wall-mounting is preferable. sting platforms or building features (i.e., loading docks, retaining   |
| _Yes                       | _No _                          | _Not Applicable   | _Further Study                             | Notes:  |
| 8.2. <u>Air</u>            | Handl                          | ing and Filtration  | <u>!</u>                                   |   |
| possibi                    | e to ne                        | up control the sp   | read of airborne co                        | ff in the principal's office or other designated area, making it ontaminants through the ventilation system from any source, cal-biological-radiological (CBR) attack.  |
| _Yes                       | _No _                          | _Not Applicable   | _Further Study                             | Notes:  |
| 8.2 b C                    | ritical                        | air systems have  | been balanced afte                         | er initial construction or rebalanced after later renovation.   |
| _Yes                       | _No _                          | Not Applicable  | _Further Study                             | Notes:  |
| 8.2 c Fi                   | unction<br>and fi              | nal, tight-sealing<br>ire codes.                                | fire dampers are in                        | stalled and operational at all fire barriers, as required by  |
| _Yes _                     | _No _                          | Not Applicable  | _Further Study                             | Notes:  |
| 8.2 d In                   | high r                         | isk areas, a smo  | ke evacuation syst                         | em with adequate purge capacity is operational, installed   |

| facing away from high-risk buildings, with controls and wires protected against damage, and connected to emergency power.   |     |                 |                |        |  |  |  |  |  |  |  |
|---|-----|-----------------|----------------|--------|--|--|--|--|--|--|--|
| _Yes _  | _No | _Not Applicable | _Further Study | Notes: |  |  |  |  |  |  |  |
| 8.3. Equipment Inspection, Maintenance, Recommissioning, and Testing  |     |                 |                |        |  |  |  |  |  |  |  |
| 8.3 a There are well-maintained records of fire inspections by fire officials, elevator inspections by building officials, and maintenance logs for all mechanical equipment.   |     |                 |                |        |  |  |  |  |  |  |  |
| _Yes _  | _No | _Not Applicable | _Further Study | Notes: |  |  |  |  |  |  |  |
| 8.3 b Major mechanical, electrical, plumbing, security, communications, and other systems are maintained, recommissioned, and tested on a preventive maintenance schedule, by trained workers in cooperation with security staff.  _Yes _No _Not Applicable _Further Study Notes: |     |                 |                |        |  |  |  |  |  |  |  |
| _ ~   |     |                 | ,              |        |  |  |  |  |  |  |  |
|   |     |                 |                |        |  |  |  |  |  |  |  |