

303.2.10 Turnstiles. Turnstiles are permitted to be installed in accordance with Section 5.3.8.5 of *NFPA 130*.

303.2.11 Delayed-Egress Locking System. A delayed egress electrical locking system is permitted to be installed on doors or gates required by Section 405.2 of this publication or Section 1010.5.4 of the *Building Code of New York State* when installed in compliance with the following:

1. The installation is on doors or gates that are in a fare barrier that serves 3 or more turnstiles meeting Section 5.3.8.5.2.1.1 of NFPA 130.
2. For open stations and open cut stations, a fare control area where the fare barrier is being modified shall meet one of the following conditions.
 - 2.1. Be horizontally separated from back of house locations in accordance with Sections 5.2.4.2 and 5.2.4.3 of NFPA 130 or,
 - 2.2. The back of house locations that use the fare barrier as the primary means of egress are protected by smoke detection in accordance with Section 303.2.7.2.2 of this publication. The delay electronics of the delayed egress locking system shall deactivate upon actuation of such smoke detection, allowing immediate free egress, where provided.
3. For rail stations not considered open stations or open cut stations, the back of house locations that use the fare barrier as the primary means of egress are protected by smoke detection in accordance with Section 303.2.7.2.2 of this publication. The delay electronics of the delayed egress locking system shall deactivate upon actuation of such smoke detection, allowing immediate free egress, where provided.
4. The delay electronics of the delayed egress locking system shall deactivate upon loss of power controlling the lock or lock mechanism, allowing immediate free egress.
5. The delayed egress locking system shall have the capability of being deactivated at the fire command center and other approved locations.
6. An attempt to egress shall initiate an irreversible process that shall allow such egress in not more than 15 seconds when a physical effort to exit is applied to the egress side door hardware for not more than 3 seconds. Initiation of the irreversible process shall activate an audible signal in the vicinity of the door. Once the delay electronics have been deactivated, rearming the delay electronics may occur after 30 seconds of inactivity.
7. The egress path from any point shall not pass through more than one delayed egress locking system.
8. A sign shall be provided on the door and shall be located above and within 12 inches (305 mm) of the door exit hardware that reads: PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS. The sign shall comply with the visual character requirements in ICC A117.1.
9. Emergency lighting shall be provided on the egress side of the door.
10. The delayed egress locking system units shall be listed in accordance with either UL 294 or UL 1034.

303.3 Additions. When an *addition* is provided to an existing *rail station*, the *addition* shall comply with the provisions of the *Existing Building Code of New York State* and Sections 303.3.1 through 303.3.2 of [this publication](#).

303.3.1 Accessibility Improvements. *Additions* solely for accessibility improvements shall comply with Sections 303.3.1.1 through 303.3.1.4 of [this publication](#) and the *Existing Building Code of New York State*.

303.3.1.1 Nonconformity. New stairways, ramps, elevators, elevator lobbies, and similar components which are added solely for the purpose of improving accessibility shall not cause a nonconformity with respect to *fire area* provisions unless they exceed 20% of the original *fire area*.

303.3.1.2 Building Area. When work is being completed that increases the floor area solely for improving accessibility in a *rail station*, such work shall be allowed to exceed the allowable *building area* if the added *building area* is less than 20% of the existing story area. The 20% shall not include the area of newly added stairways or ramps.

~~303.3.1.3~~ **303.3.3.1 Authority.** The *fire code official* has the authority to limit the coverage area of proposed notification devices in *rail stations* constructed in compliance with this section, when a fire event in the *work area* would not affect occupants of other sections of the *rail station*.

303.3.1.4 Accessible Entrance. When the work is adding elevators or ramps to provide or increase accessibility to *rail stations*, the number of accessible entrances is not required to meet the requirements of Section 1105.1 of the *Building Code of New York State*, provided that the wayfinding signage is provided to properly identify accessible routes.

303.3.2 Automatic Sprinkler Systems. The installation of an automatic sprinkler system in *public locations* that are not within an *open station* is not required when all of the following conditions are met:

1. When a standpipe is provided in accordance with Section 303.2.9 [of this publication](#).
2. When the *rail station* is of Type I or Type II construction.
3. Automatic sprinkler systems shall be provided in accordance with Section 303.2.8.1 [of this publication](#). ~~as of a public location,~~

303.3.3 Fire Alarm Systems. A fire alarm system shall be installed in accordance with Section 303.2.7 [of this publication](#), to the limitations of Section 1102.3 of the *Existing Building Code of New York State*.

Exception: Additions solely for the purpose of increasing accessibility and less than 20% of the original fire area.

303.3.4 Platform Extensions. A platform in an *open station* can be extended without consideration of additional fire alarm or means of egress components if all of the following conditions are met:

1. The platform extension is to allow existing train consists that are longer than an existing platform to open more or all train doors to the platform.
2. The platform extension is not being constructed to handle an increased occupant load, as calculated by ~~NFPA 130~~ Section 5.3.2 [of NFPA 130](#).
3. The platform being extended has an accessible route to the public way.
4. A *public access communication system* location is provided for every 200 feet of platform extension.
5. [Existing public address coverage is extended to the new platform area.](#)

303.4 Level 2 Alterations. Any alteration that meets the scope of a Level 2 alteration in Section 603.1 of the *Existing Building Code of New York State*, regardless of compliance method, shall meet the requirements of the *Existing Building Code of New York State* and Sections 303.4.1 through 303.4.4 of this publication.

303.4.1 Vertical Openings. Existing vertical openings altered for stairways, ramps, elevators, and escalators that are open or unrated in *public locations*, are not required to be fire-resistance-rated when the *rail station* meets all of the following requirements:

1. A standpipe system is provided in accordance with Section 303.2.9.
2. The interior of the building meets the requirements of Sections 5.2.5, 5.2.6, and 5.2.7 of *NFPA 130*.

303.4.2 Automatic Sprinkler Systems. The installation of an automatic sprinkler system in *public locations* that are not within an *open station* is not required when all of the following conditions are met:

1. When the *rail station* is of Type I or Type II construction.
2. Automatic sprinkler systems shall be provided in accordance with Section 303.2.8.1.

303.4.3 Fire Alarm System. A fire alarm system shall be installed in accordance with Sections 303.4.3.1 through 303.4.3.4.

303.4.3.1 Escalators and Elevators. A *rail station* that has work involving the installation of escalators and elevators shall require a fire alarm system for the escalator or elevator equipment control.

303.4.3.2 Work Areas in Public Locations. When alteration work contains a work area in a *public location*, a fire alarm system meeting the requirements of Section 303.2.7 shall be installed throughout the work area, the areas of the *public locations* that utilize the work area for required egress, and the path from the work area to the exit discharge.

303.4.3.2.1 Notification. Notification devices shall be installed throughout the altered spaces [in Section 303.4.3.2](#) and, if the *rail station* has an existing fire alarm system with notification devices, connected to activate the existing notification system throughout the *rail station*.

303.4.3.3 Work Areas in Back of House Locations. [Work areas in Back of house locations shall have a fire alarm system installed when a work area contains a space listed in Section 303.2.7.2.2. The fire alarm system shall meet the requirements of Section 303.2.7 throughout the work area and the means of egress therefrom to the exit discharge.](#)

303.4.3.3.1 Notification. [Notification devices shall be installed throughout the altered spaces in Section 303.4.3.3 and, if the rail station has an existing fire alarm system with notification devices, connected to activate the existing notification system throughout the rail station.](#)

~~**303.4.3.3 Authority.** The fire code official has the authority to limit the coverage area of proposed notification devices in rail stations constructed in compliance with this section when sufficient documentation is submitted to and approved by the fire code official documenting that a fire event in the work area would not affect occupants of other sections of the rail station.~~

~~**303.4.3.4 Notification Devices.** When a rail station undergoing Level 2 Alterations has an existing fire alarm system without Emergency Voice/Alarm Communication System (EVACS) in the public locations, horn/strobes are permitted to remain to notify the occupants of public locations.~~

[303.4.3.4 NFPA 101](#). The allowance to utilize NFPA 101 for alterations to the means of egress within the work area and egress serving it is permitted for single tenant spaces.

303.5 Level 3 Alterations. Any alteration that meets the scope of a Level 3 alteration in Section 604.1 of the *Existing Building Code of New York State*, regardless of compliance method, shall meet the requirements the *Existing Building Code of New York State*, [and Sections 303.4](#), ~~Section~~ 303.5.1, and ~~Section~~ 303.5.2 [of this publication](#).

303.5.1 Accessible Entrance. When the work is adding elevators or ramps to provide accessibility to *rail stations*, the number of accessible entrances is not required to meet the requirements of Section 1105.1 of the *Building Code of New York State*, provided that wayfinding signage is provided to properly identify accessible routes.

303.5.2 Automatic Sprinkler Systems. The installation of an automatic sprinkler system in *public locations* that are not within an *open station* is not required when all of the following conditions are met:

1. When a standpipe is provided in accordance with Section 303.2.9.
2. When the *rail station* is of Type I or Type II construction.
3. Automatic sprinkler systems shall be provided in accordance with Section 303.2.8.1

Section 304

[Fire Separation Distance for Certain Building Elements](#)

304.1 Scope. This section applies to the construction or rehabilitation of new and existing stairways, ramps, elevator hoistways, escalators, and covered walkways as well as the associated headhouses, weather coverings, and similar accessory structural components.

304.2 Fire Separation Distance. When new construction is occurring within the public way, the definition of fire separation distance is defined as “the distance between the exterior wall of the new construction to the exterior wall of adjacent properties, up to 30 feet. This shall be measured at a right angle to the exterior wall of the new construction.”

304.3 Existing Conditions. All work shall maintain the existing exterior fire protection provided for stairways, ramps, elevator hoistways, escalators, walkways, and platforms that was previously provided. The exterior fire protection is permitted to be removed when permitted by new construction.

304.4 New Exterior Stairways, Escalators and Ramps. New exterior stairways, escalators, and ramps shall meet the requirements of this section.

304.4.1 Installation. New Exterior Stairways and Ramps shall follow the requirements of Section 1027 of the *Building Code of New York State*. For exterior escalators that serve as part of the means of egress, such escalators shall be protected the same as an exterior stairway.

304.4.1.1 Special Conditions. Except for a new stairway or ramp that will serve as a single means of egress from a *rail station*, or portion thereof, an exterior wall of a new stairway or ramp is not required to be installed and fire-resistance-rated if either condition 1 or condition 2 is met:

1. When the new stairway or ramp is in the public way:
 - a. The fire separation distance is not less than 3 feet when the adjacent building has noncombustible exterior walls or 10 feet when the adjacent building has combustible exterior walls, and
 - b. The fire separation distance is not less than 5 feet when the adjacent building has exterior wall openings at or below the height of the run of the new stairway or ramp, and
 - c. The new stairway or ramp, including overhangs, roofs, and weather protection, is constructed of noncombustible materials or fire-retardant treated wood.
2. When the new stairway or ramp is not in the public way:
 - a. When the fire separation distance is not less 3 feet

304.5 New Covered Walkways New exterior covered walkways shall meet the requirements of this section.

304.5.1 Fire Separation. For newly installed covered walkways that only have a single means of egress, or portion thereof, an exterior wall of 1-hour fire resistance rated construction is required if any of the following conditions exist:

1. The fire separation distance is less than 3 feet when the adjacent building has noncombustible exterior walls or 10 feet when the adjacent building has combustible exterior walls.
2. The fire separation distance is not less 5 feet when the adjacent building has exterior wall openings at or below the height of the walking surface.
3. The new covered walkways, including overhangs, roofs, and weather protection, is constructed of combustible materials and less than 10 feet from the adjacent building or property line.

304.6 Headhouses. Structures that are exclusively for providing an elevator hoistway or weather covering for a subterranean stairway or ramp are not required to be fire-resistance-rated if all of the following conditions are met:

1. The construction of the structure is noncombustible, except for glazing installed for safety or security purposes.
2. The structure is limited to protecting elevator hoistways, stairways, escalators, ramps, and fare control equipment.
3. Elevator machine rooms built within the headhouse shall have a 2-hour fire-resistance-rated enclosure.
4. Any portion of the structure that is within 5 feet of an adjacent building opening or combustible exterior wall, measured perpendicular from the new structure, shall have a 1-hour fire resistance rating.
5. The material of the perimeter of the structure from the street level to 60" above the street level shall be noncombustible material or glazing that has a 1-hour fire resistance rating.

Section 305
Additional Requirements for New and Existing Buildings

305.1 Scope. The provisions of this chapter are additional requirements for the design and construction of new and existing rail stations.

305.2 Rail Ties. When approved by the building official, rail ties shall be permitted to be made from combustible material.

305.3 Interface with other special use, occupancy, and hazards. Mixed occupancies that include a rail station shall meet Section 508 of the Building Code of New York State. In addition to Section 508, where rail stations are part of a nonseparated occupancy that includes an occupancy or use regulated by Chapter 4 of the Building Code of New York State, or Chapters 20 through 49 of the Fire Code of New York State, the most restrictive provisions of this publication and the provisions of the Uniform Code applicable to any one nonseparated occupancy or uses shall apply to the entire nonseparated occupancy area.

305.4 Plumbing Fixtures. Plumbing fixtures are not required to be provided for the public locations of a rail station, including family and/or assisted use toilet and bathing rooms. When no fixtures are provided, an approved means of cleaning the station shall be in place.

305.5 Escalators. In addition to meeting the requirements of the Building Code of New York State, escalators are permitted to be installed in accordance Sections 305.5.1 through 305.5.3 of this publication.

305.5.1 Speed. Escalators are permitted to have a maximum speed of 120 feet per minute, provided that a minimum of 3 flat steps are provided at both landing areas of the escalator.

305.5.2 Variable Speed. Escalators are permitted to have sleep mode functionality, but cannot operate at less than 10 feet per minute and cannot change speeds at a rate greater than 1 foot per second.

305.5.3 Escalator machine rooms. Escalator machine rooms shall not be required to be fire separated overhead from the interior of stations where escalator machine rooms and trusses are protected with an automatic sprinkler system installed in accordance with 903.3.1 of the Building Code of New York State.

305.6 Elevators. Elevators in new buildings that travel more than 60 feet above or below grade plane shall meet the requirements of Section 3002.4 of the Building Code of New York State. When an elevator does not discharge to street level but ascends or descends more than 60 feet above or below grade plane, such elevator and any elevator that continues the accessible path shall also comply with Section 3002.4 of the Building Code of New York State.

305.7 Mechanical Systems. In addition to meeting the requirements of the Mechanical Code of New York State, mechanical systems are permitted to be installed in accordance with Sections 305.7.1 through 305.7.4 of this publication.

305.7.1 Ventilation. Where natural ventilation is provided at public areas of underground enclosed stations, air supplied from the movement from trains in trainways through ventilation openings at grade shall be permitted to contribute to natural ventilation.

305.7.2 Location of intake openings and exhaust outlets. Exhaust outlets and intake openings shall be permitted to face or be positioned within the public way or trainway when approved, based on general engineering principles.

305.7.3 Separation. The separation distance of exhaust and intake openings is permitted to be reduced when in compliance with the engineering analysis in ASHRAE 62.1.

305.7.4 Temperature control. *Station* public areas shall not be required to be heated.

305.8 Fire walls. Fire walls located in underground *rail stations* shall be permitted to be constructed as 3-hour fire barriers.

305.9 Standpipes. In addition to meeting the requirements of the *Building Code of New York State*, standpipes are permitted to be installed in accordance Sections 305.9.1 and 305.9.2.

305.9.1 Location of hose connections. Hose connections shall not be required to be located at unenclosed stair landings at open public stairs.

305.9.2 Protection of laterals and Risers. Laterals and risers are not required to be protected by fire resistance rated construction.

Chapter 4

Additional Fire Safety Provisions Applicable to All Rail Stations

Section 401

Scope and Applicability

401.1 Scope. The provisions of this chapter shall be additional fire safety provisions for the design, construction, administration, operation, and maintenance of new and existing *rail stations*.

401.2 Applicability. All new and existing *rail stations* shall comply with the *Fire Code of New York State* and this chapter.

Section 402

Fire Extinguishers

402.1 Portable Fire Extinguishers. Portable fire extinguishers in *rail stations* shall be provided in accordance with Section 906 of the *Fire Code of New York State*.

Exception: Portable fire extinguishers are not required to be in the *public locations* of a *rail station*, unless required by the *fire code official*.

Section 403

Emergency Lighting

403.1 Power Source. In existing *rail stations*, approved alternative emergency power for means of egress illumination is allowed if all the following conditions are met:

1. Power to the primary means of egress illumination is provided with a minimum of two connections such that any one connection can illuminate the means of egress independently.

2. Emergency means of egress lighting is provided by the traction power system, where power is provided to the substation and is able to be energized by an off-site generator.

Section 404

Emergency Responder Radio Coverage

404.1 Existing Systems. Where *approved* by the *fire code official*, when an existing system is already in place to provide emergency responder coverage throughout a transportation system, the existing system may satisfy the requirements of Section 510 of the *Fire Code of New York State*.

Section 405

Means of Egress

405.1 Exit Signage. Existing exit signage may have the font altered and new exit signage may contain graphics to match a standardized graphics scheme that is approved by the *building official*. Signage shall be in compliance with ICC A117.1.

405.2 Fare Barriers. *Fare Barriers* serving an occupant load in excess of 300 [occupants](#) are permitted to have swing gates that accommodate more than one turnstile. The swing gates must be sized to accommodate the occupant load for all turnstiles the swing gate is serving and shall be located on the same circulation path as the turnstiles.

405.3 Security Grilles. Security grilles are permitted to be installed at the public exits of a *rail station* when all of the following conditions are met:

1. Security grilles are secured in an open position during times the *rail station* is occupied by the public.
2. The building has a fire alarm system installed in accordance with Section 303.2.7.
3. Are not for regular use and only for station closures due to natural disasters, civil unrest, crowd control outside the *rail station*, or similar events.
4. The public exit obstructed by security grilles is not the only means of egress to the public way for employees.
5. Operating rules shall not permit the discharge of passengers at stations where any security grilles are being utilized to close public exits.

405.4 HEETs and HXTs. *High Entry/Exit Turnstiles (HEET)* and *High Exit turnstiles (HXT)* that have been previously approved for installation are permitted to remain. No new *HEETs* or *HXT* shall be permitted to be installed.

405.4.1 Swing Gates. All existing *HEET* and *HXT* ~~fare arrays~~ [fare barriers](#) shall also have swing gates with panic bars. Delayed egress arrangements on the swing gates are permitted in accordance with the *Fire Code of New York State*.

405.4.2 Security Grilles. Security grilles are not permitted to be installed on exits being served by swing *HEETs* or *HXTs*.

405.4.3 Maintenance. In stations where *HEETs* or *HXTs* are installed, the trainway shall be cleaned biannually.

405.5 Posting. The *public locations* within a *rail station* are not required to have a maximum occupant load posted.

Section 406
Construction Requirements for Existing Buildings

406.1 Retroactive Requirements. The requirements of Chapter 11 of the *Fire Code of New York State* shall only apply when specifically referenced by the *Existing Building Code of New York State*.

Section 407
Emergency Plan

407.1 Emergency Plan. In addition to the requirements of Chapter 4 of the *Fire Code of New York State*, fire safety and evacuation plans for the transportation system (or systems) using the *rail station* shall include specific protocols for addressing the emergency evacuation of disabled occupants.

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