ILLUSTRATED PLANNING GUIDE HIGH-PILED STORAGE PLAN

As Specified in the Permit Application Guideline for High-Piled Storage

This illustrated planning guide is intended to assist in the development of a high-piled storage plan. More specifically, it can be used to guide designers through a thirteen point process for completing the high-piled storage floor plan. In addition, this guide also provides examples of required markings and signage associated with high-piled combustible storage. However, this guide is not intended to prescribe the required template to be used to prepare the plan submittal, and is for illustration purposes only. Designers are reminded to consult the high-piled storage permit application guideline for all documentation requirements related to high-piled storage plans.

When Required. A high-piled storage plan shall be submitted for any of the following circumstances or conditions: 1) At the time of building permit application for new structures designed to accommodate high-piled combustible storage; 2) When requesting a change of occupancy/use or when increasing the storage hazard of an existing high-piled combustible storage arrangement; 3) At the time of application for an operational permit (i.e., Fire Prevention Code Permit) to maintain any high-piled combustible storage area.

Minimum Required Copies. Three (3) copies of the high-piled storage plan shall be included in the plan submittal. This typically includes the high-piled combustible storage plan review application, required plan review documents, and completed evacuation plan for public accessible storage areas and large mercantile occupancies.

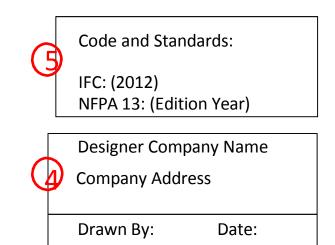
Floor Plan Specifications. Designers shall provide a scaled floor plan of the building showing locations and dimensions of all high-piled combustible storage areas and storage arrangements. Scaled drawings shall be: 1/8 inch = 1 foot. Dimensional drawings are not acceptable.

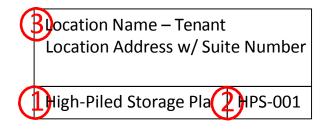
For more information about high-piled combustible storage planning requirements in Washoe County, contact the Truckee Meadows Fire Prevention Bureau at 775-326-6005.



All the basic plan information should be shown on the plans.

- 1. Type of Plan
- 2. Sheet Number
- 3. Location Name / Address
- 4. Designer Information on <u>every page</u>
- 5. Codes and Standards Used on <u>every page</u>
- 6. Notes / General Comments

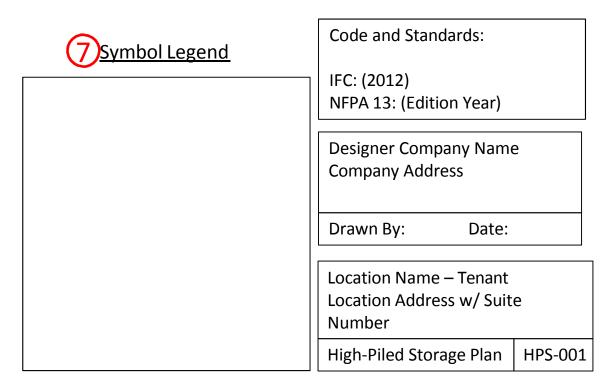




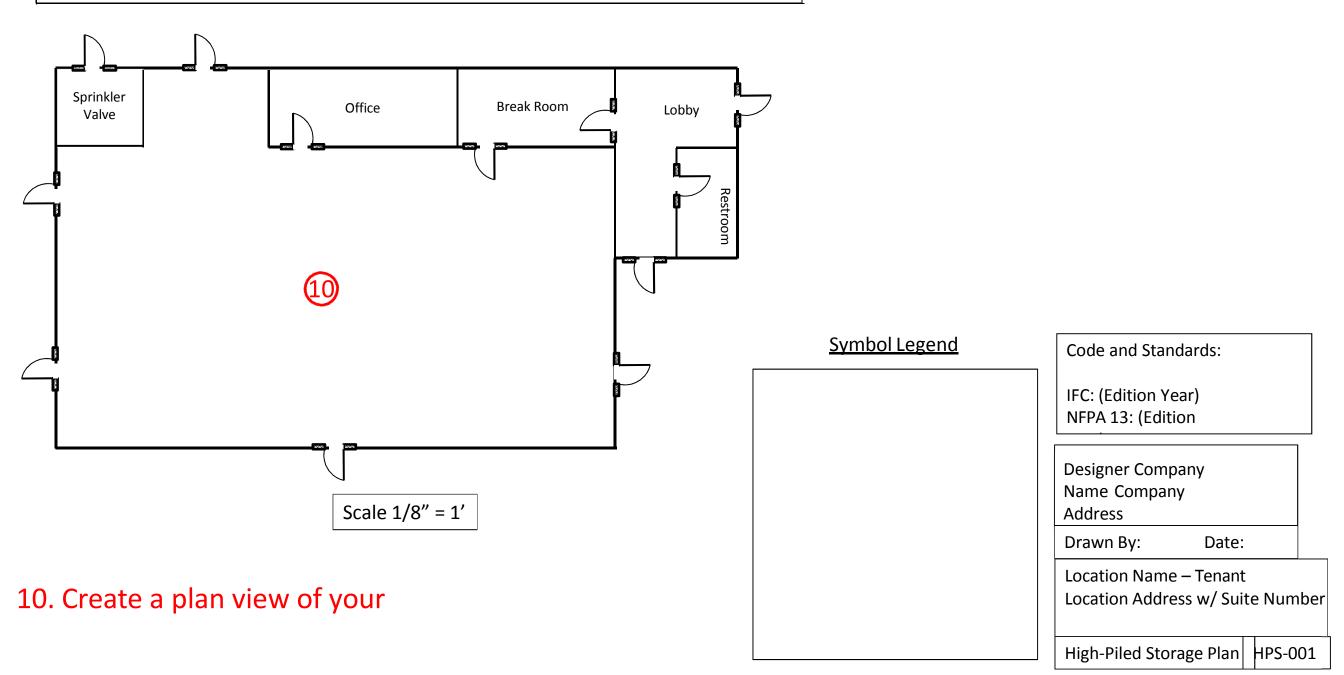
Sprinkler System Information					
Encapsulated Storage	Density / Area	Temperature of Heads	ESFR Heads	Aisle Width	
No	0.2 / 2000	165°	No	8 ft	
NFPA 13 or 231 design c	urve and reduction info	ormation.			

All the basic plan information should be shown on the plans (cont.):

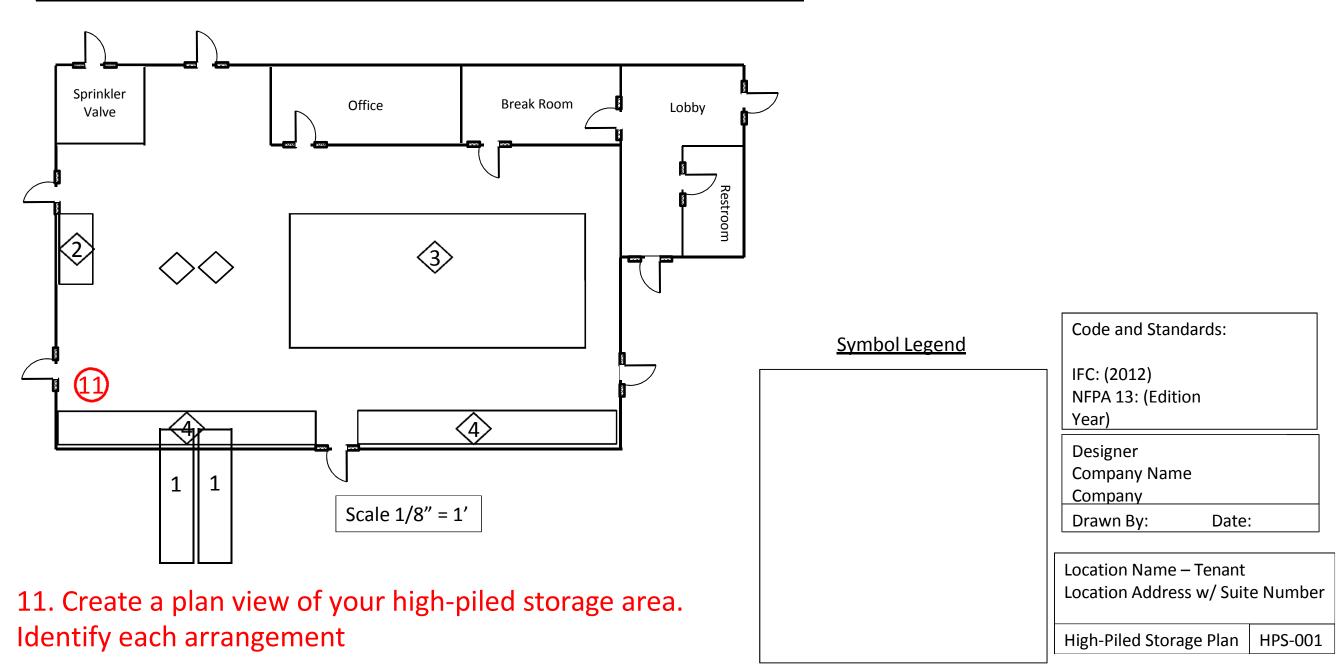
- 7. Symbol Legend
- 8. Scale 1/8" = 1' 8 Scale 1/8" = 1'
- 9. Sprinkler System Information

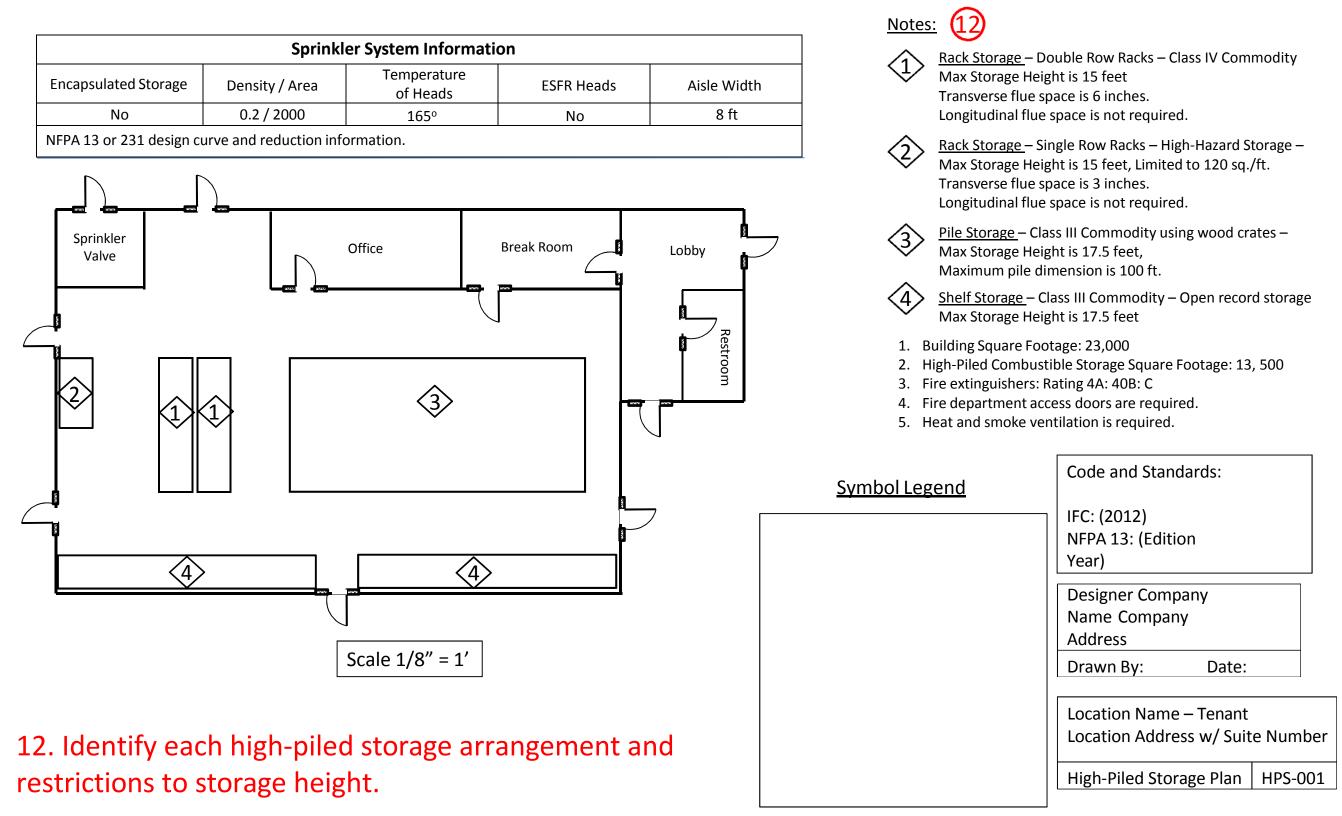


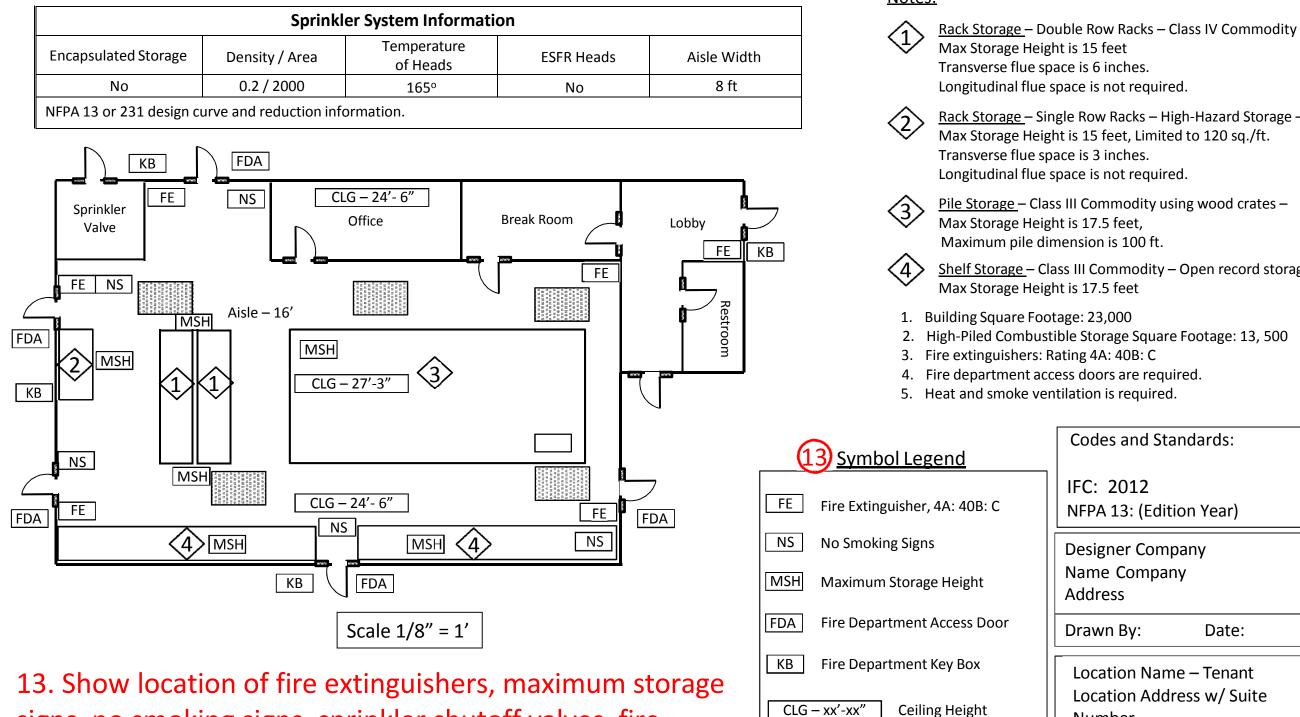
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Sprinkler System Information				
Encapsulated Storage	Density / Area	Temperature of Heads	ESFR Heads	Aisle Width
No	0.2 / 2000	165°	No	8 ft





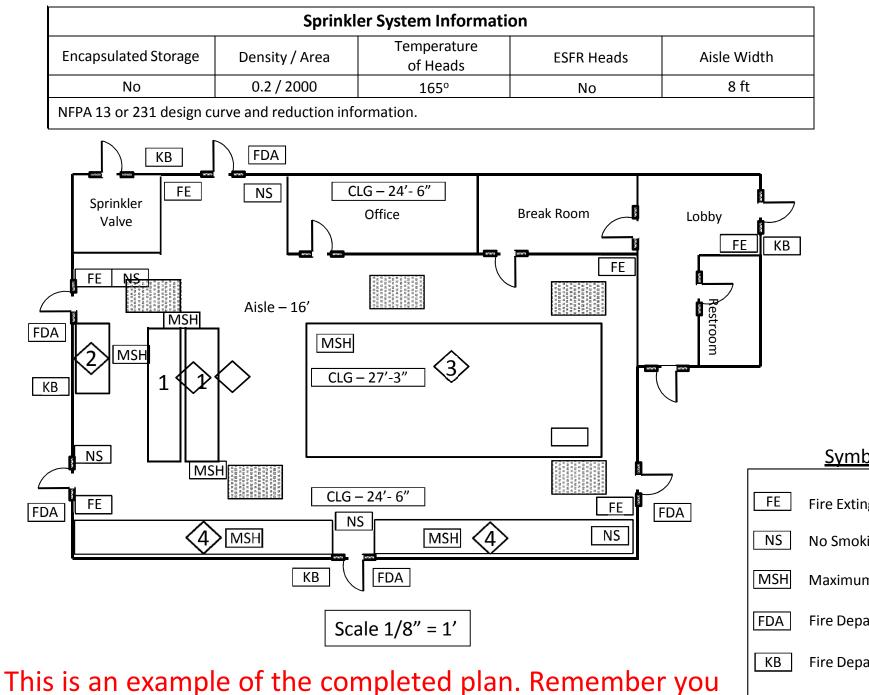


signs, no smoking signs, sprinkler shutoff valves, fire department access door, fire department key box, etc.

Notes:

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 Rack Storage – Single Row Racks – High-Hazard Storage – Max Storage Height is 15 feet, Limited to 120 sq./ft. Transverse flue space is 3 inches. Longitudinal flue space is not required. Pile Storage – Class III Commodity using wood crates – Max Storage Height is 17.5 feet, Maximum pile dimension is 100 ft. Shelf Storage – Class III Commodity – Open record storage Max Storage Height is 17.5 feet Building Square Footage: 23,000 High-Piled Combustible Storage Square Footage: 13, 500 Fire department access doors are required. Heat and smoke ventilation is required. Heat and smoke ventilation is required. Heat and smoke ventilation is required. IFC: 2012 NFPA 13: (Edition Year) Designer Company Name Company Address Drawn By: Date: Location Name – Tenant Location Address w/ Suite Number High Piled Storage Non 	Max Storage Heig Transverse flue sp			
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Address ire Department Access Door ire Department Access Door ire Department Key Box	o Smoking Signs	Designer Company		
ire Department Key Box Location Name – Tenant x'-xx" Ceiling Height	1aximum Storage Height			
<u>x'-xx"</u> Ceiling Height Location Name – Tenant Location Address w/ Suite Number	ire Department Access Door	Drawn By: Date:		
x'-xx" Ceiling Height Number	ire Department Key Box	Location Name – Tenant		
Automatic Smoke/Heat Vents	x'-xx" Ceiling Height	-		
	Automatic Smoke/Heat Vents	High-Piled Storage Plan HPS-001		



are responsible for the plan creation and providing all the

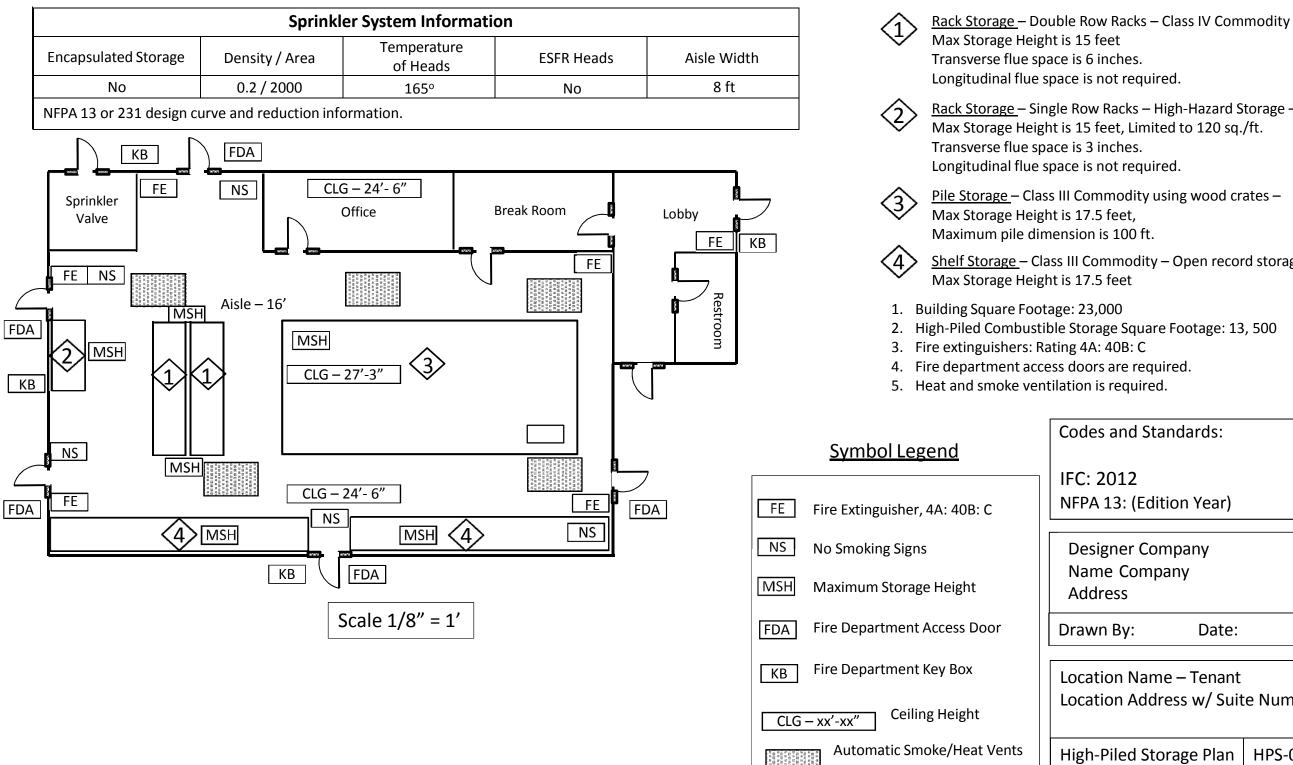
relevant information as it pertains to your business.

Notes:

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Max Storage Height is 15 feet Transverse flue space is 6 inches. Longitudinal flue space is not required. Rack Storage – Single Row Racks – High-Hazard Storage – Max Storage Height is 15 feet, Limited to 120 sq./ft. Transverse flue space is 3 inches. Longitudinal flue space is not required. Pile Storage – Class III Commodity using wood crates – (3) Max Storage Height is 17.5 feet, Maximum pile dimension is 100 ft. (4)Shelf Storage – Class III Commodity – Open record storage Max Storage Height is 17.5 feet Building Square Footage: 23,000 High-Piled Combustible Storage Square Footage: 13, 500 Fire extinguishers: Rating 4A: 40B: C Fire department access doors are required. Heat and smoke ventilation is required. 5. Codes and Standards: Symbol Legend IFC: 2012 Fire Extinguisher, 4A: 40B: C NFPA 13: (Edition Year) No Smoking Signs Designer Company Name Company Address Maximum Storage Height Fire Department Access Door Drawn By: Date: Fire Department Key Box Location Name – Tenant Location Address w/ Suite Number CLG – xx'-xx" Ceiling Height Automatic Smoke/Heat Vents **High-Piled Storage Plan** HPS-001

Rack Storage – Double Row Racks – Class IV Commodity



Max Storage Height is 15 feet Transverse flue space is 6 inches. Longitudinal flue space is not required. Rack Storage - Single Row Racks - High-Hazard Storage -Max Storage Height is 15 feet, Limited to 120 sq./ft. Transverse flue space is 3 inches. Longitudinal flue space is not required. Pile Storage – Class III Commodity using wood crates – Max Storage Height is 17.5 feet, Maximum pile dimension is 100 ft. Shelf Storage – Class III Commodity – Open record storage Max Storage Height is 17.5 feet 1. Building Square Footage: 23,000 High-Piled Combustible Storage Square Footage: 13, 500 3. Fire extinguishers: Rating 4A: 40B: C Fire department access doors are required. 5. Heat and smoke ventilation is required. Codes and Standards: IFC: 2012 NFPA 13: (Edition Year) **Designer Company** Name Company Address Drawn By: Date: Location Name – Tenant Location Address w/ Suite Number High-Piled Storage Plan HPS-001

This is the required signage for "No Smoking".

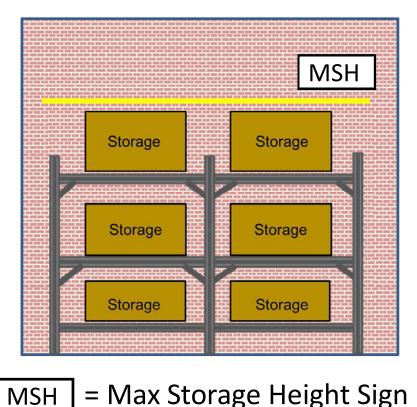
Signage should be clearly legible, visible from distances of approximately 25 feet, display lettering on a contrasting background, and proportion wording approximately as shown:

HIGH-PILED COMBUSTIBLE STORAGE

BY THE ORDER OF THE FIRE MARSHAL

Storage Height Limitation Signage

Visual indication shall be as described below. Alternative means \bullet may be approved where a written request is submitted for review.



MSH

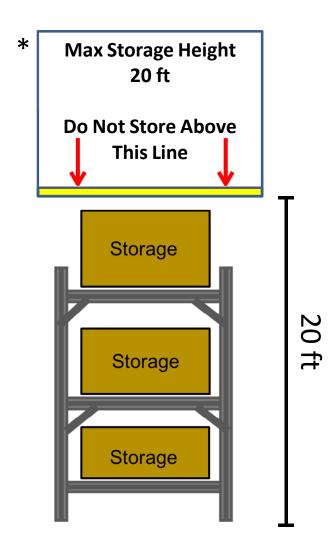
Storage along a wall.

Max Storage Height Sign.



Provide a line to indicate max storage height. ullet

Storage Height Limitation Signage



- *Sign not to scale. Sign is larger to show detail.
- Sign is suspended from under ceiling.
- The sign line located and measured from finished floor.