Permit Number:	



East Fork Fire Protection District Fire Prevention Division 1694 County Rd. Minden, NV 89423

Phone (775) 782-9040

Date Received:

HIGH-PILED COMBUSTIBLE STORAGE PERMIT APPLICATION

Required for storage of combustible materials on interior racking greater than 12'-0" high <u>OR</u> for high hazard commodity storage greater than 6'-0" high

All applicable codes, including: NFPA 13 & 72, 2018 IFC & 2018 IBC <u>with NN Amendments</u>

Please Note: For permit submission **both Part A** and **Part B** shall be provided. Permit may be issued upon approval of **Part A Plan Review**, however, **Part B Plan Review** shall be approved in order to obtain a Certificate of Occupancy.

Part A: Building Division Requirements

- (3) Three copies of Exiting Plan showing racking layout exit paths with occupancy load (#) to each exit
- (3) Three copies of Lighting Plan including emergency lighting
- (3) Three copies of Structural Racking Details including seismic anchoring and bracing
- All docs and drawings signed/stamped by a NV Licensed Design Professional

Part B: East Fork Fire Protection District (EFFPD) Requirements

- Part B shall be completed by an approved EFFPD 3rd party professional
- See attached application packet with samples and detailed instructions

Peri	nit	#

COMMERCIAL HIGH-PILED COMBUSTIBLE STORAGE BUILDING PERMIT APPLICATION- Part A

Parcel Number:	Address:
Suite:	
Business/Tenant Information:	
Property Owners Name:	Phone No.:
Mailing Address:	
Tenant Name:	Phone No.:
Description of Business	Fax No.:
Address:	Email:
Nevada licensed contractor is required to sign	of all commercial permits
Contractor Information:	
Contractor:	Contact Name:
Address:	
Phone No.:	Fax No.:
Nevada License No.:	County Business License No.:
License Classification:	Dollar Limit:
Design Professional Information	:
Architect's Name:	Phone No :
Architect's Name: E-Mail Address	Phone No.: Fax No.:
	I & NO
Engineer's Name:	Phone No ·

	Permit #
E-Mail Address	Fax No.:
PERSON TO CONTACT REGARDING THIS PROJECT	
Name and Company	Phone No.:
E-Mail Address	Fax No.:
Project Information:	
Contract Price \$ Use and Occupancy Classification:Type	
Use and Occupancy Classification: Type	e of Construction: Sq ft
Use and Occupancy Classification:Type Use and Occupancy Classification:Type	of Construction:Sq ft
Fire Sprinkler System Yes No Fire Alarm Yes No	
Septic System Yes No	
Grease or Sand/Oil Interceptor Existing	New Not Applicable
Description of Work:	
Building Code Information:	
Building Height:No. of Stories:	No. of Units:
Edition of Code:Building Code Used:	
Applicant (print)	Date:
Signature	

Nevada licensed contractor is required to sign on all commercial permits

East Fork Fire Protection District



PART B HIGH PILE COMBUSTIBLE STORAGE PERMIT

Plan Review Application

APPLICANT / SUBMITTING FIRM

Name:		
Address:		
	State:Zip	:
Contact Person:	Phone:	
BI	LLING INFORMATION	
* PARTY RESPONSIBLE FOR PAYMENT OF AL	L FIRE MARSHAL SERVICES ASSOCIATED WITH TH	IS PLAN THIS SUBMITTAL *
Name:		
Address:		
City:	State:Zip	:
Contact Person:	Phone:	
S	TORAGE LOCATION	
Where is the proposed high-piled co	ombustible storage facility located?	
Location Name:		
Address:		
City:	State:Zip	:
Contact Person:	Phone:	
*** THE ABOVE INFORMATION MUST BE	E COMPLETELY FILLED OUT OR PLANS WILL NO	T BE PROCESSED ***

High-Piled Combustible Storage

Publication Updated: September 2019

Page 1 of 4

14/1 1 1 1	
wno snouid we co	ontact for technical questions about this plan submittal?
Contact Person:	Phone:
Company/Firm Nam	ne:
Email:	Alternate Phone:
	STORAGE AREA IDENTIFICATION
(1) What area(s	s) of the storage location will be used for high-piled combustible storage?
A. Are there multip	ble storage areas separated by a 1-hour fire protection rating? \Box YES \Box NO
If YES, items 1-	-7 shall be prepared for each "separated" high-piled storage area associated with the project.
B. Description or n	name of high-piled storage area:
C. Aggregate Area	a: D. Ceiling Height:
<i>E.</i> Is the high-piled	d storage area accessible to the public? \Box YES \Box NO
If YES, a separ	rate evacuation plan required by IFC 3201.4 shall be prepared and submitted with this plan.
	COMMODITY CLASSIFICATION
(2) Describe Ma	aterials in Storage; Declare Commodity Classification; Specify Limitations
A. Description of c	combustible materials stored:
B. Commodity of	classification(s) per IFC 3203 (i.e., Class I - IV, High-Hazard):
C. Use of flame-ret	tarding modifiers to change the commodity classification:
D. Does the physic	cal form of the material change the commodity classification? \Box YES \Box NO
<i>E.</i> If yes to <i>C</i> or <i>D</i> ,	, provide documentation validating related changes in commodity
•	, provide documentation validating related changes in commodity Specify commodity class limitations in accordance with IFC 3204 (Check One)
classification. F. S	
classification. <i>F.</i> S	Specify commodity class limitations in accordance with IFC 3204 (Check One)
classification. <i>F.</i> S Commodity Commodity 1) Enginee	Specify commodity class limitations in accordance with IFC 3204 (<i>Check One</i>) class shall <u>not exceed</u> the class specified above in item B
classification. <i>F.</i> S Commodity Commodity 1) Enginee by an au	Specify commodity class limitations in accordance with IFC 3204 <i>(Check One)</i> y class shall <u>not exceed</u> the class specified above in item B y class <u>may exceed</u> the class specified above in item B where items 1, 2, 3 apply ering analysis demonstrates the higher hazard commodity is adequately protected
classification. <i>F.</i> S Commodity Commodity 1) Enginee by an au 2) The area	Specify commodity class limitations in accordance with IFC 3204 <i>(Check One)</i> y class shall <u>not exceed</u> the class specified above in item B y class <u>may exceed</u> the class specified above in item B where items 1, 2, 3 apply ering analysis demonstrates the higher hazard commodity is adequately protected utomatic sprinkler system.
 classification. <i>F.</i> S Commodity Commodity Commodity 1) Engineer by an au 2) The area 3) Addition 	Specify commodity class limitations in accordance with IFC 3204 <i>(Check One)</i> (class shall <u>not exceed</u> the class specified above in item B (class <u>may exceed</u> the class specified above in item B where items 1, 2, 3 apply ering analysis demonstrates the higher hazard commodity is adequately protected utomatic sprinkler system. (check One)

HAZARDOUS MATERIALS

 (3) Are hazardous materials part of the proposed high-piled combustible storage plan? A. Identify if the following hazardous materials are part of the proposed high-piled storage plan. Refer to the IFC chapter indicated for material-specific storage limitations and/or requirements. □ Hazardous Materials (<i>IFC Chapter 50</i>) □ Flammable/Combustible Liquids (<i>IFC Chapter 57</i>) □ Aerosols (<i>IFC Chapter 51</i>) □ Combustible Fibers (<i>IFC Chapter 52</i>) 				
<i>c.</i> MSDS for Hazardous Materials Stored Included with Plan Submittal?	VES			
FIRE PROTECTION / LIFE SAFETY REQUIREMEN	ITS			
(4) What fire protection and life safety features required by IFC 3206 are pro-	vided?			
A. Automatic Fire-Extinguishing System Provided	VES			
B. Fire Detection System Provided	VES			
C. Fire Department Access Doors Provided	VES			
D. Smoke and Heat Removal Provided	VES			
E. Draft Curtains Provided	VES			
F. Number and Rating of Fire Extinguishers Provided:				
G. Provide additional information if a footnote in IFC Table 3206.2 applies. Footnote Letter(s):				
FIRE SPRINKLER SYSTEM				
 (5) Tell us the general details about the fire sprinkler protection provided. A. Fire Sprinkler System Provided B. Type of System C. Sprinkler System Design Density and Area:				
<i>D.</i> In-Rack Sprinklers Provided				
<i>E.</i> ESFR Sprinkler Heads Provided				
<i>F.</i> Sprinkler K-Factor: <i>G.</i> Sprinkler Head Temperature:				
H. Sprinkler Spacing in Square Footage:				

NOTICE: Detailed information requested in items 6 and 7 listed below shall be provided for each separate high-piled combustible storage arrangement or configuration where storage methods or storage design specifications are different. For example, if solid-pile storage, rack storage, and bin box storage is to be located in the same high-piled storage area, a separate copy of this page will be required for each. In addition, each separate arrangement or configuration shall be shown in the plan.

STORAGE ARRANGEMENT / CONFIGURATION

• • • • • • • • •	5 5	nts, rack configurations,	pallet materials/types.	
A. High-Piled Storage	Arrangement(s):			
Solid-Piled	Shelf Storage	Rack Storage	Automated Storage	
Bin Boxes <i>(less</i>	<i>than 5 feet)</i> Bin B	oxes (exceeding 5 feet)	Records Storage	
B. Shelf Information:				
Depth of the shelve	es(inches):	Height between shelves	(inches):	
C. Rack Configuration:				
□ Single Row	Double Row	Movable	Multiple Row	
Other				
	mation: (Select all that apply)			
□ Wood	Conventional	Plastic	Plastic, UL 2335	
Banded	Unbanded	Encapsulated	Nonencapsulated	
Other				
E. Solid Pile Informatio	n:			
Pallet	Dunnage C	Skids DOt	her:	
	F. Maximum Pile Dimension: G. Maximum Pile Height:			
	ension:	G. Maximum Pile H	eight:	
F. Maximum Pile Dime		G. Maximum Pile H		
<i>F.</i> Maximum Pile Dime <i>H.</i> Maximum Pile Volu	me (cubic feet):			
<i>F.</i> Maximum Pile Dime <i>H.</i> Maximum Pile Volu	me (cubic feet):			
<i>F.</i> Maximum Pile Dime <i>H.</i> Maximum Pile Volu Additional Information:	me (cubic feet):			
F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AISLE	me (cubic feet): 	GE-RELATED DIMI	ENSIONS	
F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AISLE	me (cubic feet): 		ENSIONS	
 F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AlSLE (7) Specify application A. Minimum Required	me (cubic feet): E WIDTH / STORA <i>ble aisle widths, flue sp</i> Aisle Width:	GE-RELATED DIMI	ENSIONS rage heights/clearances.	
 F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AlSLE (7) Specify application A. Minimum Required B. Transverse Flue Specify 	E WIDTH / STORA	GE-RELATED DIMI baces, and maximum stor	ENSIONS rage heights/clearances. t Required or Not Applicable	
 F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AlSLE (7) Specify application A. Minimum Required B. Transverse Flue Specify 	E WIDTH / STORA	GE-RELATED DIMI baces, and maximum stor	ENSIONS rage heights/clearances.	
 F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AlSLE (7) Specify application A. Minimum Required B. Transverse Flue Specify C. Longitudinal Flue Specify 	E WIDTH / STORA ble aisle widths, flue sp Aisle Width: pace:	GE-RELATED DIMI baces, and maximum stor	ENSIONS rage heights/clearances. t Required or Not Applicable t Required or Not Applicable	
 F. Maximum Pile Dime H. Maximum Pile Volu Additional Information: AlSLE (7) Specify application A. Minimum Required B. Transverse Flue Sp C. Longitudinal Flue S D. Maximum Storage I 	E WIDTH / STORA ble aisle widths, flue sp Aisle Width: pace: Height:	GE-RELATED DIMI	ENSIONS rage heights/clearances. t Required or Not Applicable t Required or Not Applicable	

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.

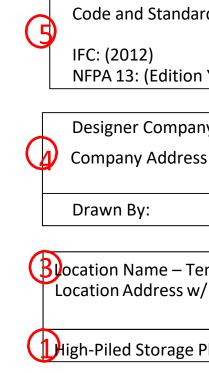
Floor Plan Specifications. Designers shall provide a scaled floor plan of the building showing locations and dimensions of all high-piled combustible storage areas and storage arrangements. Scaled drawings shall be: **1/8 inch = 1 foot**. Dimensional drawings are not acceptable.

For more information about high-piled combustible storage planning requirements in East Fork Fire protection District, contact the Fire Prevention Division at 775-782-9040.

6 <u>Notes:</u>

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 every page
- 5. Codes and Standards Used on <u>every page</u>
- 6. Notes / General Comments

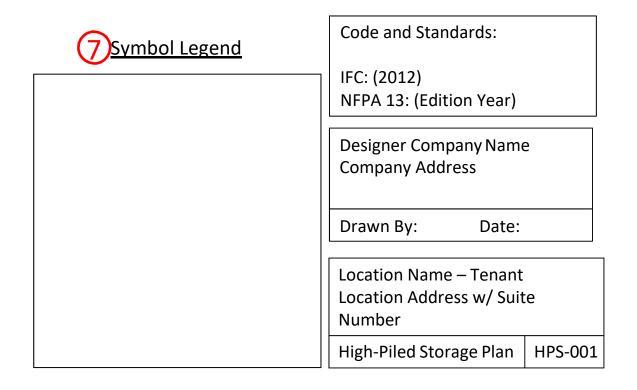


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Date:	
nant ′ Suite Number	
PlaCHPS-001	

Notes:

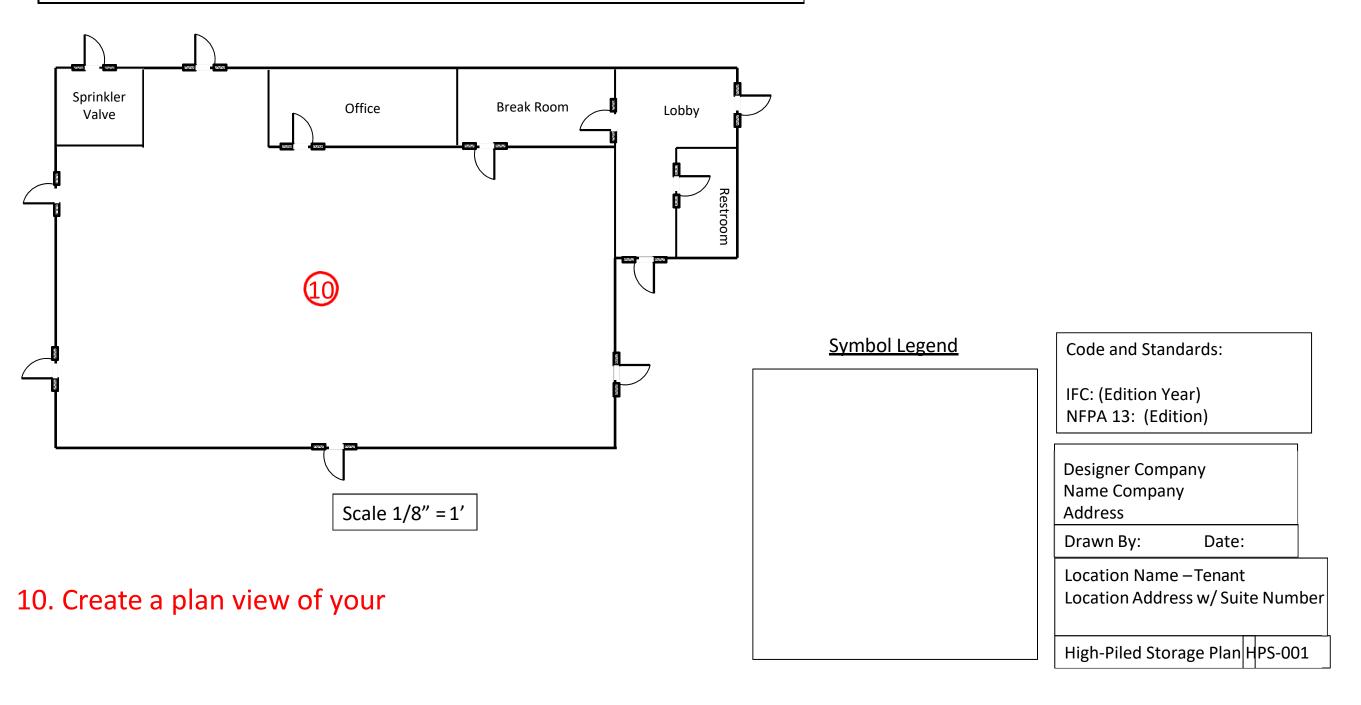
	Sprinkle	er System Informatio	on	
Encapsulated Storage	Density / Area	Temperature of Heads	ESFR Heads	Aisle Width
No	0.2 / 2000	165°	No	8 ft

- Allthebasicplaninformationshouldbeshown on the plans (cont.):
- 7. Symbol Legend
- 8. Scale 1/8" = 1' 8 Scale 1/8" = 1'
- 9. Sprinkler System Information



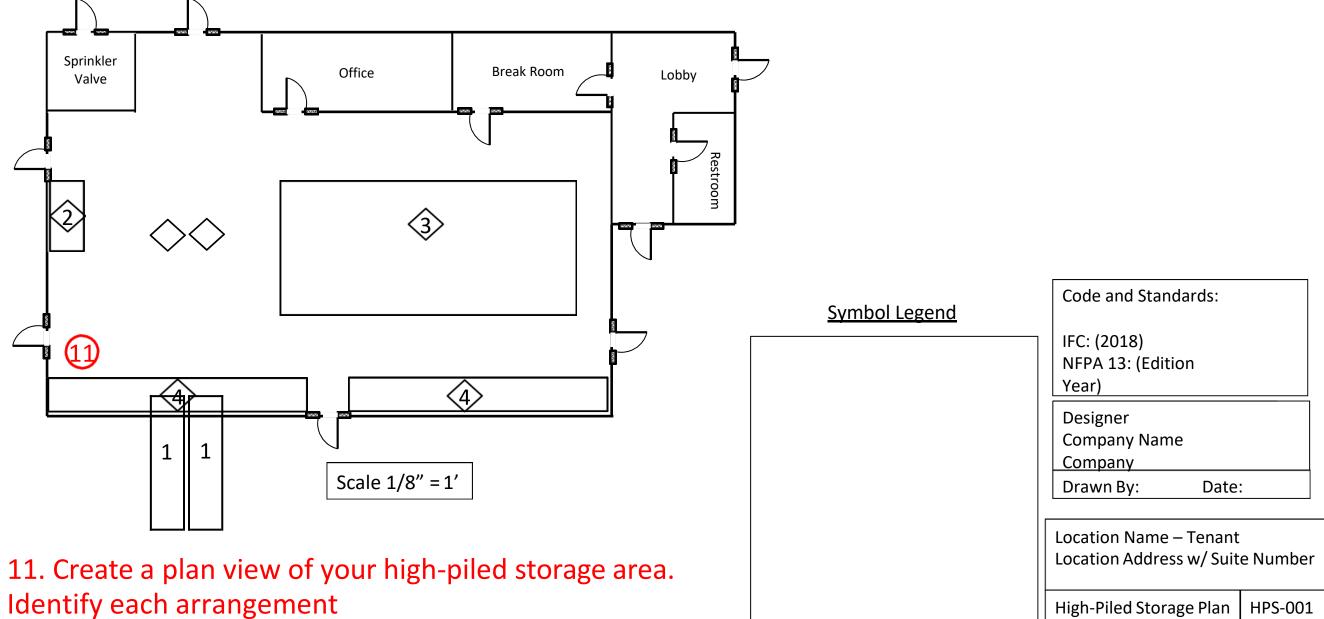
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Sprinkler System Information				
Encapsulated Storage	Density / Area	Temperature of Heads	ESFR Heads	Aisle Width
No	0.2 / 2000	165°	No	8 ft
NFPA 13 or 231 design curve and reduction information.				

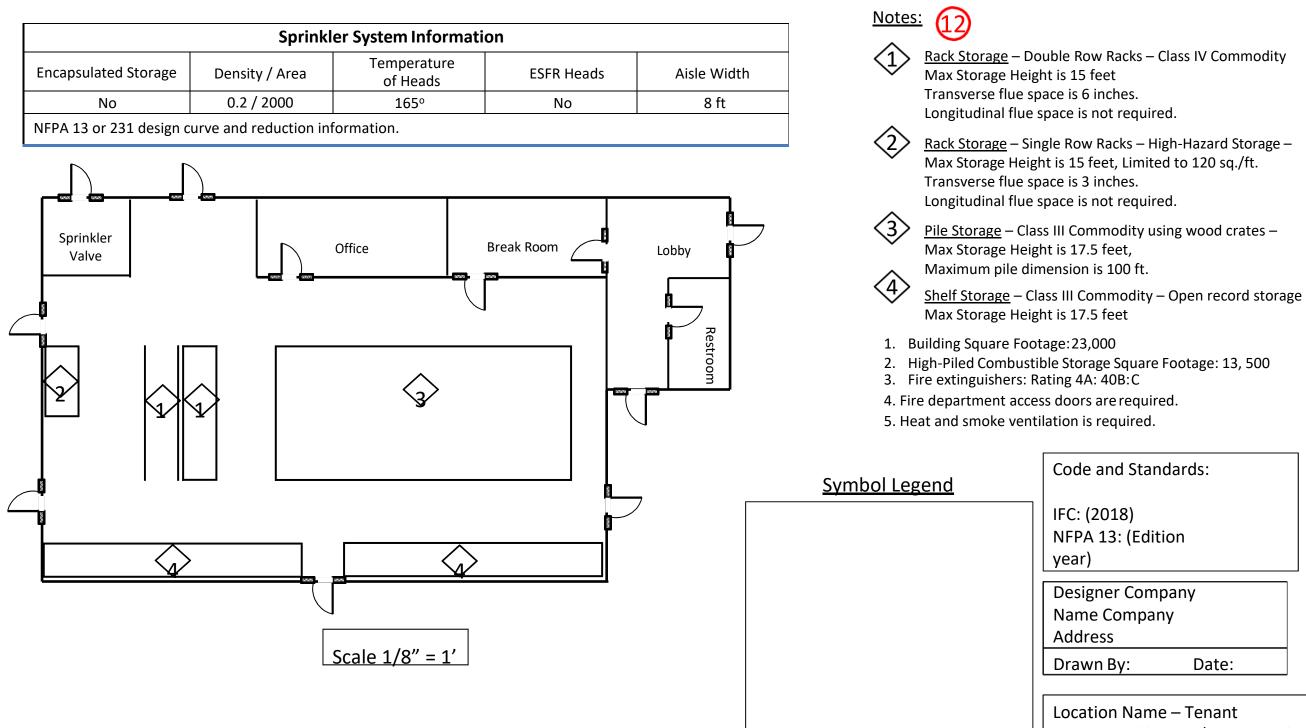


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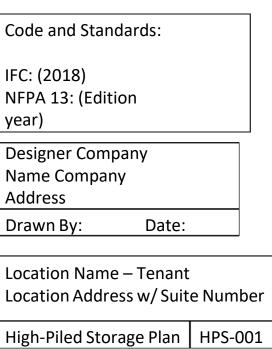
Sprinkler System Information				
Encapsulated Storage	Density / Area	Temperature of Heads	ESFR Heads	Aisle Width
No	0.2 / 2000	165°	No	8 ft
NFPA 13 or 231 design curve and reduction information.				

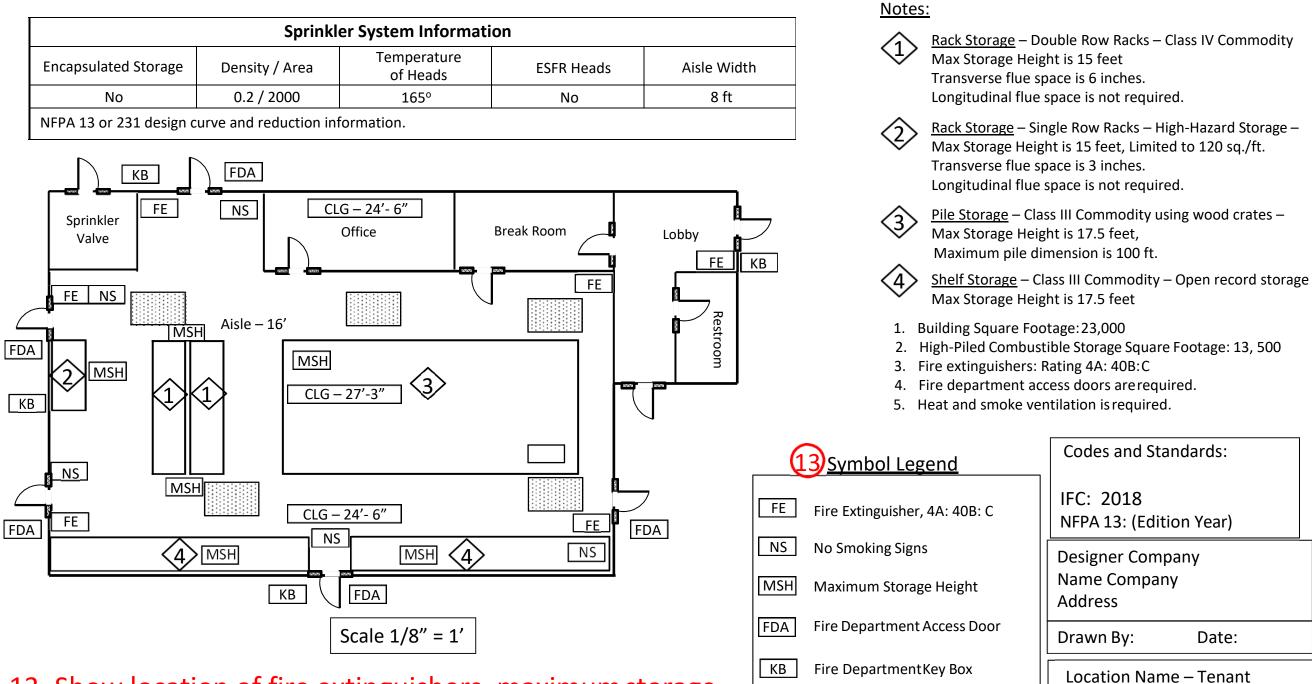


Identify each arrangement



12. Identify each high-piled storage arrangement and restrictions to storage height.





CLG – xx'-xx"

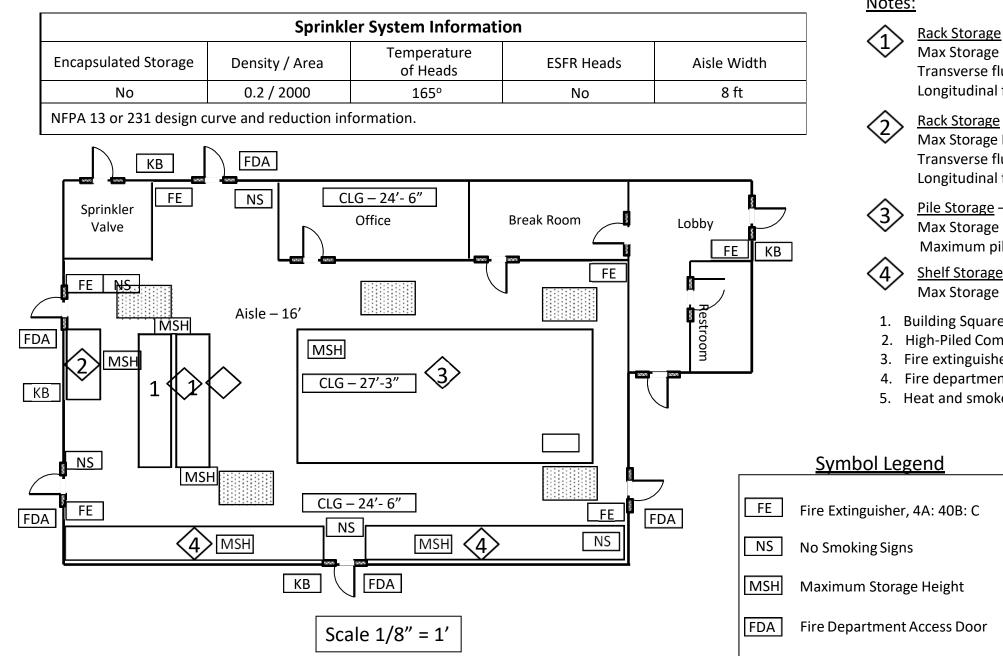
Ceiling Height

Automatic Smoke/Heat Vents

Number

13. Show location of fire extinguishers, maximum storage signs, no smoking signs, sprinkler shutoff valves, fire department access door, fire department key box, etc.

Date: Location Address w/ Suite **High-Piled Storage Plan** HPS-001



This is an example of the completed plan. Remember you are responsible for the plan creation and providing all the relevant information as it pertains to your business.

Notes:

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.

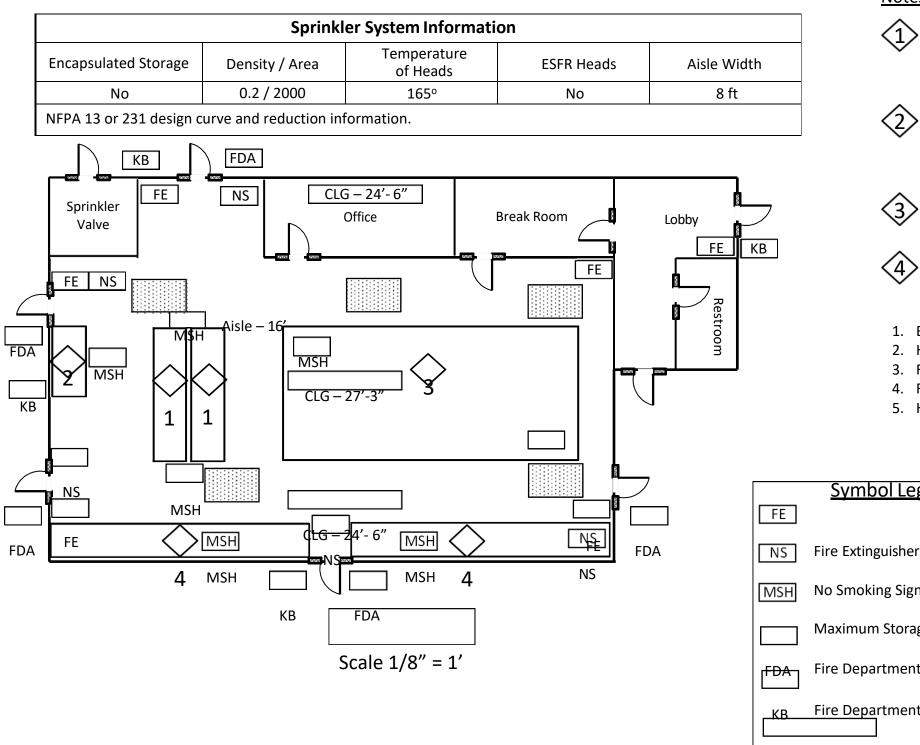
Pile Storage – Class III Commodity using wood crates – Max Storage Height is 17.5 feet, Maximum pile dimension is 100 ft.

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
- 4. Fire department access doors are required.
- 5. Heat and smoke ventilation is required.

	Symbol Legend	Codes and Standa	
FE	Fire Extinguisher, 4A: 40B: C	IFC: 2018 NFPA 13: (Edition	
NS	No Smoking Signs	Designer Compan	
MSH	Maximum Storage Height	Company Address	
FDA	Fire Department Access Door	Drawn By:	
КВ	Fire DepartmentKey Box	Location Name –	
	- xx'-xx" Ceiling Height	Location Address	
	Automatic Smoke/Heat Vents	High-Piled Storag	

dards: on Year) ny Name Date: – Tenant ss w/ Suite Number HPS-001 ige Plan



Notes:



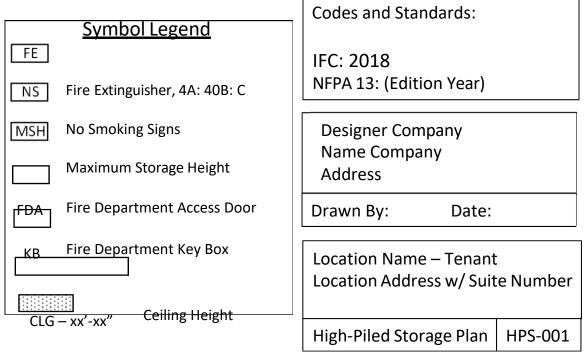
Rack Storage – Double Row Racks – Class IV Commodity Max Storage Height is 15 feet Transverse flue space is 6 inches. Longitudinal flue space is not required.

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
- 2. High-Piled Combustible Storage Square Footage: 13, 500
- 3. Fire extinguishers: Rating 4A: 40B:C
- 4. Fire department access doors are required.
- 5. Heat and smoke ventilation is required.



Automatic Smoke/Heat Vents

This is the required signage for "No Smoking".

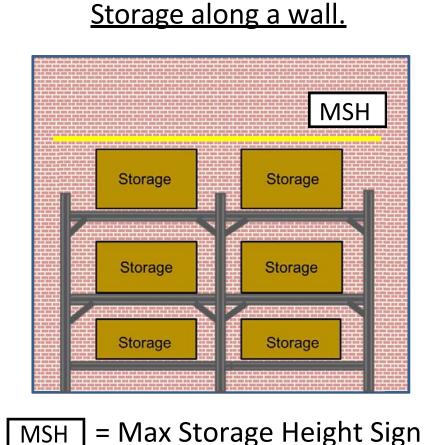
Signage should be clearly legible, visible from distances of approximately 25 feet, display lettering on a contrasting background, and proportion wording approximately as shown:

HIGH-PILED COMBUSTIBLE STORAGE NO SMOKING

BY THE ORDER OF THE FIRE MARSHAL

Storage Height Limitation Signage

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

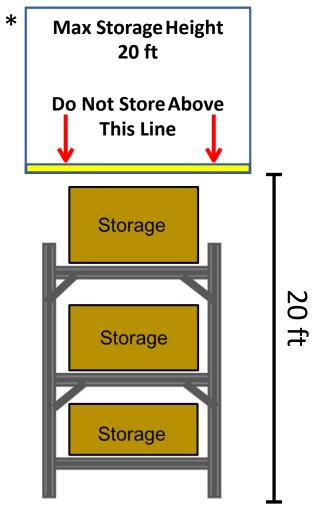


Max Storage Height Sign.



Provide a line to indicate max storage height. \bullet

Storage Height Limitation Signage **Storage located in aisles.**



- *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.