

UNIT B, D, & E ARE CLASSIFIED AS GROUP A PLASTICS: STORAGE CONFIGURATIONS OF PALLETIZED, BIN BOX, SHELF, PILE STORAGE, AND RACK. PLASTICS AND ANYTHING CATEGORIZED AS PLASTIC TO BE STORED 5 FEET OR LESS. IF OVER THEY NEED TO FOLLOW TABLE 15.2.6 (A) FOR DESIGN BASIS. UNDER NO CIRCUMSTANCE WILL THE CURRENT WATER SUPPLY ALLOW RACK STORAGE OF

GROUP A PLASTICS ABOVE 10 FEET! NOR CAN EXPANDED, EXPOSED COMMODITIES IN STABLE

ALL PALLETIZED, SOLID PILE, BIN BOX, AND SHELF STORAGE CONFIGURATIONS ARE ABLE TO BE STORED UP TO A HEIGHT THAT WILL REQUIRE .50/2500 OR LESS AS A DESIGN BASIS.

Table 15.2.6(a) Design Densities for Palletized, Solid-Piled, Bin Box, or Shelf Storage of Plastic and Rubber Commodities (U.S. Customary Units)

Maximum Storage Height (ft)	D C (C . IF IV . L	Density (gpm/ft ²)								
	Roof/Ceiling Height — (ft)	A	В	С	D	E				
>5 to ≤12	Up to 15	0.2	EH2	0.3	EH1	EH2				
	>15 to 20	0.3	0.6	0.5	EH2	EH2				
	>20 to 32	0.4	0.8	0.6	0.45	0.7				
15	Up to 20	0.3	0.6	0.5	0.4	0.45				
	>20 to 25	0.4	0.8	0.6	0.45	0.7				
	>25 to 35	0.45	0.9	0.7	0.55	0.85				
20	Up to 25	0.4	0.8	0.6	0.45	0.7				
	>25 to 30	0.45	0.9	0.7	0.55	0.85				
	>30 to 35	0.6	1.2	0.85	0.7	1.1				
25	Up to 30	0.45	0.9	0.7	0.55	0.85				
	>30 to 35	0.6	1.2	0.85	0.7	1.1				

- (1) Minimum clearance between sprinkler deflector and top of storage shall be maintained as required.
- (2) Column designations correspond to the configuration of plastics storage as follows: A: (1) Nonexpanded, unstable
- (2) Nonexpanded, stable, solid unit load
- B: Expanded, exposed, stable
- C: (1) Expanded, exposed, unstable (2) Nonexpanded, stable, cartoned
- D: Expanded, cartoned, unstable
- E: (1) Expanded, cartoned, stable (2) Nonexpanded, stable, exposed
- (3) EH1 = Density required by Figure 13.2.1 for Curve EH1
- EH2 = Density required by Figure 13.2.1 for Curve EH2
- (4) Roof/ceiling height>35 ft is not permitted.

UNIT F COMMODITIES ARE CLASSIFIED AS CLASS 1, 2, & 3: CLASS 1 ARE NONCOMBUSTIBLE ITEMS. CLASS 2 & 3 ARE COMBUSTIBLE ITEMS. STORAGE CONFIGURATIONS OF SINGLE ROW RACKS. PLASTICS AND ANYTHING CATEGORIZED AS PLASTIC TO BE STORED 5 FEET OR LESS. UNIT T WILL ALLOW 20 FOOT STORAGE OF CLASS 1 COMMODITIES WITH HIGH TEMPERATURE SPRINKLERS AT 16.8K. CLASS 2 & 3 COMMODITIES NEED TO BE STORED NO HIGHER THAN 12 FEET. POINT G ON FIGURE 16.2.1.3.2(E) SHOWS THE POINT FOR HIGH TEMPERATURE SPRINKLERS.

UNIT S COMMODITIES ARE CLASSIFIED AS CLASS 1, 2, & 3: CLASS 1 ARE NONCOMBUSTIBLE ITEMS. CLASS 2 & 3 ARE COMBUSTIBLE ITEMS. STORAGE CONFIGURATIONS OF SINGLE ROW RACKS. PLASTICS AND ANYTHING CATEGORIZED AS PLASTIC TO BE STORED 5 FEET OR LESS. UNIT T WILL ALLOW 18 FOOT STORAGE OF CLASS 1 COMMODITIES WITH HIGH TEMPERATURE SPRINKLERS AT 16.8K. CLASS 2 & 3 COMMODITIES NEED TO BE STORED NO HIGHER THAN 12 FEET. POINT G ON FIGURE 16.2.1.3.2(E) SHOWS THE POINT FOR HIGH TEMPERATURE SPRINKLERS.

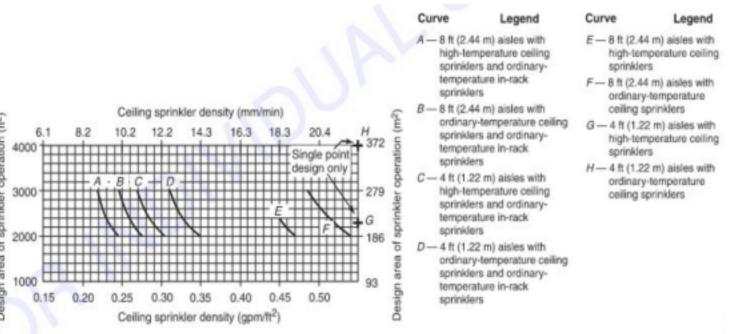


FIGURE 16.2.1.3.2(e) Single- or Double-Row Racks — 20 ft (6.1 m) High Rack Storage — Sprinkler System Design Curves — Class I and Class II Encapsulated Commodities — Conventional Pallets.



FIRE PROTECTION REMODEL PLAN **OVERALL**

UNIT T COMMODITIES ARE CLASSIFIED AS CLASS 1, 2, & 3: CLASS 1 ARE NONCOMBUSTIBLE ITEMS. CLASS 2 & 3 ARE COMBUSTIBLE ITEMS STORAGE CONFIGURATIONS OF SINGLE ROW RACKS. PLASTICS AND ANYTHING CATEGORIZED AS PLASTIC TO BE STORED 5 FEET OR LESS. UNIT T WILL ALLOW 12 FOOT STORAGE OF CLASS 1 COMMODITIES WITH HIGH TEMPERATURE SPRINKLERS AT 8.0K. CLASS 2 & 3 COMMODITIES NEED TO BE STORED NO HIGHER THAN 12 FEET TABLE 13.2.1 SHOWS THE DESIGN CURVE USED FOR 12 FOOT STORAGE OF CLASS 1,2,3 COMMODITIES AND THE STORAGE HEIGHTS ALLOWED FOR THEM.

Table 13.2.1 Discharge Criteria for Miscellaneous Storage Up to 12 ft (3.7 m) in Height

		Type of Storage				intam Height			Inside Hose		Total Combined Inside and Outside Hose		
Commod	omnodity		ft	n	ft	m	Design Curve Figure 13.2.1	Note	gpm	L/min	gpm	L/min	Duration (minutes)
					Class	I to Class	IV						
	Class I	Solid-piled,	s12	53.7	-	-	OHI		0,50, 100	0, 189, 379	250	946	90
	Class II		≤10	\$3.0	-	-	OHI		0, 50, 100	0, 189, 379	250	946	90
	Class II palletized, bin box, shelf, rack, and back-to-back shelf		>10 to ≤12	>3.0 to ≤3.7	-	-	OH2		0, 50, 100	0, 189, 379	250	916	90
	Class III storage	£12	£3.7	-	-	OH2		0, 50, 100	0, 189, 379	250	946	50	
	Class IV		≤10	£3.0	-	-	OH2		0, 50, 100	0, 189, 379	250	946	90
	Class IV	Palletized, bin box, shelf, and solid-piled	>10 to ≤12	>3.0 to £3.7	32	9.8	OH2	1	0, 50, 100	0, 189, 379	250	946	90
		Rack and back-to-back shelf storage	>10 to ≤12	>3.0 to ≤3.7	32	9.8	EHI	5	0, 50, 100	0, 189, 379	500	1893	120
					Group A	Plastic St	orage						
		Solid-piled, palletized, bin box, shelf, rack, and back-to-back shelf storage	55	≤1.5	-	-9	OH2		0, 50, 100	0, 189, 379	250	946	90
	Unexposded and expanded		>5 to ≤10	>1.5 to ≤3.0	15	4.6	EHI		0, 50, 100	0, 189, 379	500	1893	120
			35 to 510	>1.5 to \$3.0	20	6.1	EH12		0, 50, 100	0, 189, 379	500	1893	120
			>10 to \$12	33.0 to 53.7	17	5.2	EHZ		0,50, 100	0, 189, 379	500	1895	120
		Solid-piled, palletized, bin box, shelf, and back-to-back shelf storage	>10 to ≤12	>3.0 to ≤3.7	32	9.8	EHZ		0,50, 100	0, 189, 379	500	1895	120
		Rack	>10 to ≤12	>3.0 to ≤3.7	32	9.8	OH2	+1 level of in-rack	0, 50, 100	0, 189, 379	250	946	90

Fire Protection HENDERSON, KY 42420 PHONE: (270)830-7515 FAX: (270)830-7616 PROJECT NUMBER DRAWING FILE NAME

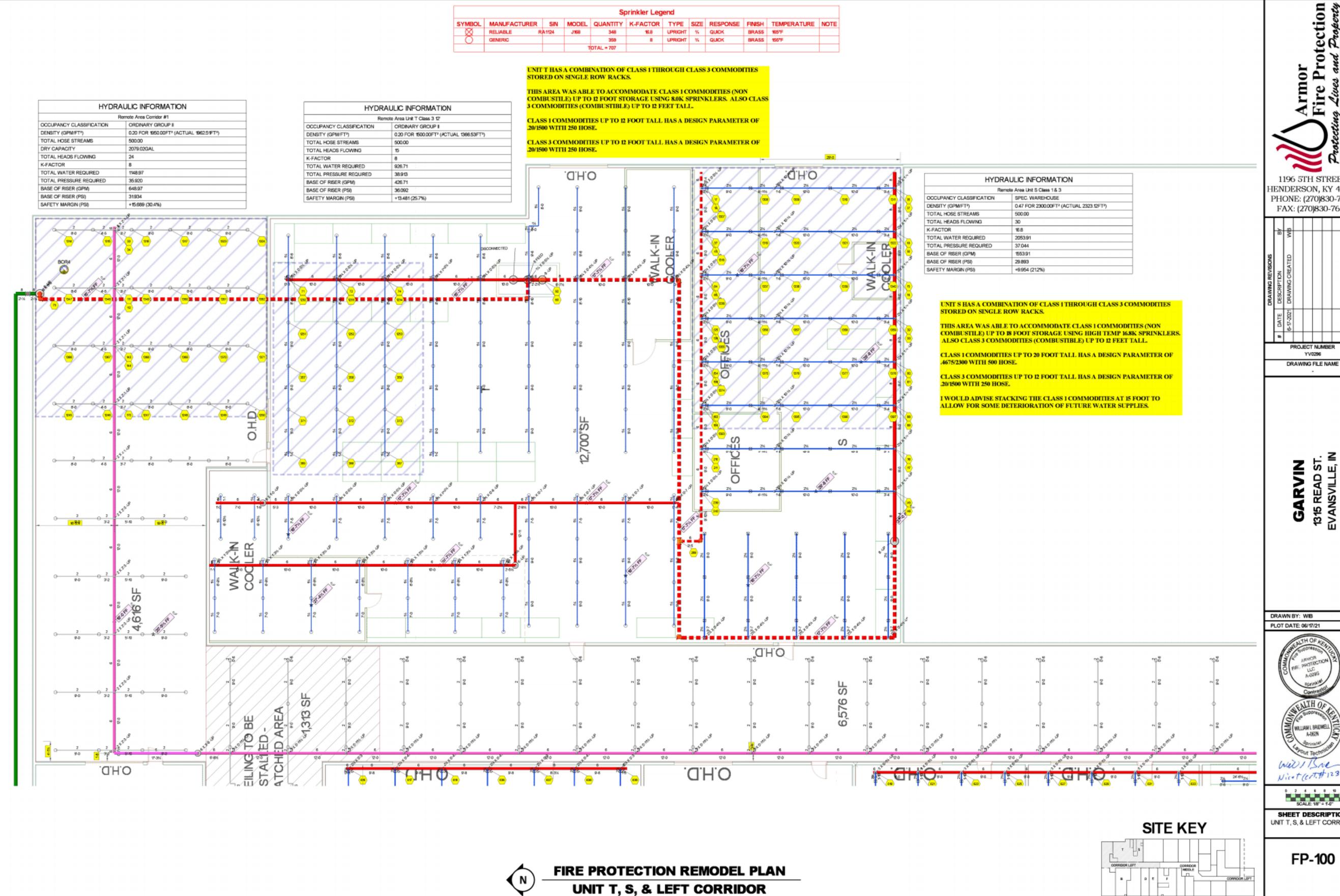
> 1315 READ ST. EVANSVILLE, IN GARVIN

DRAWN BY: WIB PLOT DATE: 06/17/21

> SHEET DESCRIPTION OVERALL LAYOUT

Nicot (cot.# 123 182

FP-000



Fire Protection 1196 5TH STREET HENDERSON, KY 42420 PHONE: (270)830-7515 FAX: (270)830-7616

1315 READ ST. EVANSVILLE, II

PLOT DATE: 06/17/21

SCALE 18" = 1-0"

SHEET DESCRIPTION UNIT T, S, & LEFT CORRIDOR

FP-100

