PROTECTION CRITERIA LEGEND BASED ON 2007 NFPA 13

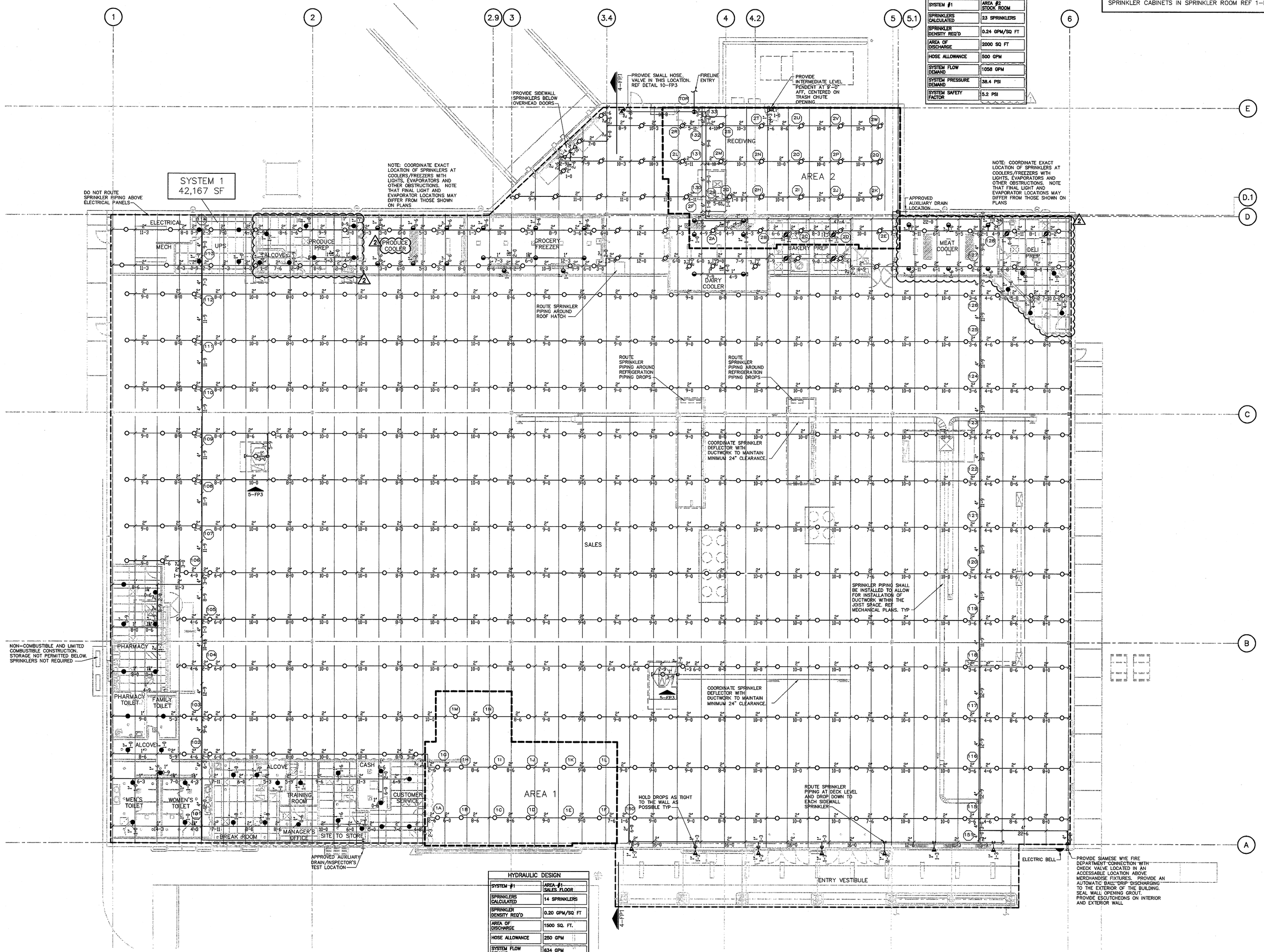
OCCUPANCY CLASSIFICATION	DENSITY	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ FT)	DESIGN BASIS
SALES FLOOR (MISCELLANEOUS STORAGE)	0.20/1500 SQ FT	250	130	CLASS I–III ON SHELF TO 12'–0"; 13: TABLE 13.2.1 AND FIGURE 13.2.1
DELI/PHARMACY/OFFICES (MISCELLANEOUS STORAGE)	0.20/1500 SQ FT	250	130	CLASS I–IV TO 10'–0"; 13: TABLE 13.2.1 AND FIGURE 13.2.1
RECEIVING AREA (RACK STORAGE)	0.24/2000 SQ FT OR ENTIRE AREA	500	130	CLASS I–III TO 15'–0", NONENCAPSULATED, CEILING SPRINKLERS ONLY, 13: FIGURE 16.2.1.3.2(c) CURVES E AND G INTERPOLATED FOR 6 FT. AISLES, HIGH TEMP SPRINKLERS, FIGURE 16.2.1.3.4.1
RESTROOMS/BREAKROOMS (LIGHT HAZARD)	0.10/1500 SQ FT	100	225	LIGHT HAZARD, 13: 11.2.3.1.1 , FIGURE 11.2.3.1.1 AND TABLE 11.2.3.1.2
ENTRY VESTIBULES/CART STORAGE/EXTERIOR CANOPY (ORDINARY HAZARD GROUP 1)	0.15/ENTIRE AREA	250	256 (16' X 16')	ORDINARY HAZARD GROUP 1 (NO STORAGE), 13: 11.2.3.1.1, FIGURE 11.2.3.1.1, AND TABLE 11.2.3.1.2
COOLERS/FREEZERS (RACK STORAGE)	0.20/ENTIRE AREA	250	130	CLASS I–III TO 12'–0" ON SINGLE ROW RACK, 13: TABLE 13.2.1 AND FIGURE 13.2.1

SPRINKLER SYMBOL LEGEND

SYMBOL	DESCRIPTION	SIZE	MFR	MAKE	S.I.N.	FINISH	STYLE	TEMP	K–FACTOR	TOTAL
	TOTAL SPRINKLERS REQUIRED 2 480	3/4"	TYCO	TY–B	TY4151	BRASS	UPRIGHT	200	8.0	349
		3/4"	TYCO	TY–B	TY4151	BRASS	UPRIGHT	286	8.0	2 43
	HYDRAULIC REFERENCE NODE POINT	1/2"	TYCO	TY–FRB	TY3231	WHITE	RECESSED STYLE 10	155	5.6	46
	CAP	1/2"	TYCO	TY–FRB	TY3231	WHITE	PENDENT 401 ESC	155	5.6	2 ---
	RISER NIPPLE/DROP NIPPLE	1/2"	GLOBE	TY–FRB	TY3231	WHITE	RECESSED STYLE 10	286	5.6	6
	SPRINKLER RISER	1/2"	TYCO	TY–B	TY3251	BRASS	INTER. PENDENT	200	5.6	1
	INSPECTOR'S TEST/AUXILIARY DRAIN	1/2"	TYCO	TY–B	TY3351	BRASS	HSW	200	5.6	2
	HANGER	1"	TYCO	DS–1	TY3355	WHITE	HSW	286	5.6	---
	TRAPEZE HANGER PERPENDICULAR TO JOIST	1"	TYCO	DS–3	TY5339	WHITE	HSW	200	11.2	2 7
	TRAPEZE HANGER PARALLEL TO JOIST	1"	TYCO	DS–C	TY3555	WHITE	CONCEAL	200	5.6	26
		1"	TYCO	DS–1	TY3255	WHITE	PENDENT 401 ESC	286	5.6	---

CONTRACTOR MAY SUBSTITUTE SPRINKLERS OF SAME SIZE, K–FACTOR AND TEMPERATURE CLASSIFICATION UNLESS PROHIBITED BY THE SPECIFICATIONS.

PROVIDE 6 SALES FLOOR TYPE SPRINKLERS, 2 DRY PENDENT SPRINKLERS, AND 2 OF EACH OTHER TYPES OF SPRINKLERS PRESENT, TO BE LOCATED IN SPRINKLER CABINETS IN SPRINKLER ROOM REF 1–FP3.



HYDRAULIC DESIGN	
SYSTEM #1	AREA #2 STOCK ROOM
SPRINKLERS CALCULATED	23 SPRINKLERS
SPRINKLER DENSITY REQ'D	0.24 GPM/SQ FT
AREA OF DISCHARGE	2000 SQ FT
HOSE ALLOWANCE	500 GPM
SYSTEM FLOW DEMAND	1058 GPM
SYSTEM PRESSURE DEMAND	38.4 PSI
SYSTEM SAFETY FACTOR	5.2 PSI

HYDRAULIC DESIGN	
SYSTEM #1	AREA #1 SALES FLOOR
SPRINKLERS CALCULATED	14 SPRINKLERS
SPRINKLER DENSITY REQ'D	0.20 GPM/SQ FT
AREA OF DISCHARGE	1500 SQ. FT.
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND	634 GPM
SYSTEM PRESSURE DEMAND	37.6 PSI
SYSTEM SAFETY FACTOR	16.4 PSI

1 FIRE SPRINKLER PLAN
3/32"=1'=0"

0 4 8 16

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1	11/11/11	REV #1
2	02/09/12	REV #3

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OVERALL FIRE SPRINKLER PLAN

SHEET: FP2

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