Fairburn Fire Department

Fire Marshal's	Fire Sprinkler System Checklist (NFPA 13, 2019 Ed) ¹ NEW: REVISION: TENANT FINISH: RETROFIT:					
Office						
	Job Name:					
	Address:					
FAIRBURA	City: Zin: Blda/Suite:					
	City: Zip: Bldg/Suite: Total heads: Phone:()					
1 The State of the	GENERAL BUILDING INFORMATION					
DEPARTM	Occupancy Type: Permit Number:					
EST.1854	Fire Sprinkler Company:					
	Phone: () - Contact Email:					
Plan Review	Phone: ()Contact Email: Type: Wet: \[\Boxed{Dry: } \Boxed{Dry: } \Boxed{Pre-action: } \Boxed{Combination: } \Boxed{Dry: } \Bo					
	CURRENT VENDOR: YES: NO:					
✓=Pass. X =Fail. E =Fx	kisting, NA= Not applicable					
DRAWING SUBMITTAL		CTION				
	wings, 1 set of submittal data, 1 set of calculations, E-mail or provide a CD with PDF	CITOIL				
files of all documents						
	able Current Codes: NFPA 13 (2019), NFPA 101 (2018), 120-3-3 Rules and					
	City of Fairburn Ordinances.					
	tency or PE seal including original signature (120-3-19)					
-	(1/8" = 1') is preferred) and graphic scale (23.1.3)					
	d north arrow in order to define the location of work within a building (23.1.3)					
-	specify hazard class per area (5.1.2 and 23.1.3)					
	system components and sprinkler heads: Quantity (total page & total project), SIN					
	itivity, K-Factor, Diameter, Temp Rating, Max spacing (23.1.3) FIRE LINE APPROVED utility plan stamped by FFDMO for new sprinkler systems;					
	C (8.17.2.4.1); PIV and related supply.					
Provide an accurate in a second control of the second control						
	E ² (8.5) / SYSTEM / RISERS / FDC / PIV (8.1.1)					
	Verify spacing, location and position of sprinklers (8.1)					
11) Provide intermediate temperature heads for coolers/freezers (8.3.2.5 (9))						
	12) Provide general note and code reference where sprinklers are to be omitted. (23.1.3)					
13) Provide total square footage for area protected by fire sprinkler system (8.2)						
14) Show ceiling heights and branch line elevations with deflector positions. (8.5.4; 8.5.6)						
15) Identify small room rule (S.R.R) locations and dimensions for light hazard areas only (8.6.3.2.4) 16) Show PRV locations and settings (i.e. PRV ≤ 175 psi). (8.16.1.2; 23.1.3) PRV's on standpipes are						
	gauges per NFPA 14:5.5.2.1					
	nections are installed downstream of PRD's NFPA 14:7.2.4 is required to be met.					
	ze protection and include details (8.16.4.1)					
	ng, pipe size, check valve location, and ball drip. (6.8 and 8.17)					
20) Provide inspectors test, auxiliary drains and remote drains (8.16.2.1 and 8.17.4.2.1)						
	21) Provide a method for flushing at systems demand when a backflow device is required (8.17.4.6.1)					
	I for each hanger used and show spacing per table 9.2.2.1 (9.2)					
	100 psi provide details and general note of securing end of branch lines (9.2.3.4.4)					
	require ordinary, intermediate or high temperature heads for wet systems and high dry pipe. (8.4.7.3.2-4)					
	CEALED SPACES AND SPECIAL SITUATIONS (8.X.5 and 8.15)					
	ets, stairways (void spaces under), elevators/hoist way, exterior projections,					
	electrical/mechanical/janitorial rooms, overhead doors, storage/warehouse rooms (8.15.1-11)					
26) Identify deflector to deck and ceiling construction type, insulated or non-insulated and provide slopes of						
ceilings (8.5.4; 8.5.						
27) Identify the clearance between the deflector and the top of the storage/contents of the room. (8.5.6)						
28) Identify obstructions to sprinkler discharge pattern development. (8.5.5.2 and 8.7.5) 29) All sprinklers under skylights or in unventilated areas shall be intermediate temperature; provide a						
29) All sprinklers under s general note. (8.3.						
general note. (6.3.	(L.G, G.G.)					

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30) Identify obstructions > 4' including ductwork, open grate floors, and cloud ceilings; provide a general note. (8.5.5.3.1)					
31) Identify temperature restrictive areas, hanging heaters or other heat producing devices; provide a general note. (8.3.2.1)					
32) Identify all canopies, loading docks or similar areas; provide a general note. (8.15.7.1)					
CONSTRUCTION AND MATERIALS ⁴					
33) Breezeway Crossings: Require a P.E. / F.P.E. stamp, job specific, worse case crossing calculations per permit. Include UL number for penetration details. Multiple calculations may be required.					
34) Show all pipe materials, schedules, pipe sizes, cut lengths, and routing to include changes in elevations (23.1.3)					
35) Provide documentation to support that all materials, system components and hardware are listed for fire service or intended use. (23.1.3; 6.1; table A.6.1.1) ³					
36) Provide a listed detail for penetrations & identify any fire walls, fire barriers or partitions. (23.1.3)					
37) Provide elevation drawings showing ceiling/floor slope and construction and incorporate sprinkler system: multiple elevation drawings maybe required (8.5 and 23.1.3)					
38) Provide a detail showing exposed dry barrel length (minimum 2" from face of fitting to insulation) (Table 8.4.9.1(a))					
DRY/PREACTION SYSTEM					
39) Provide capacity in gallons for dry pipe systems (7.2)					
40) Identify the time requirement for water activation of dry system is over 750 gallon capacity. (7.2.3.6)					
41) Identify the slope and direction of slope for sprinkler piping. (8.16.2)					
42) Show the location of remote drains where required. (8.16.2.5.3)					
43) Show type and location of alarms and valves for pre-action, dry or deluge pipe valve (23.1.3)					
HYDRAULIC CALCULATIONS - REQUIRED FOR NEW or MODIFICATION OF 30 OR MORE SPRINKLER I	HEADS				
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⁴ Information for storage areas to include: Type of storage, class type (I-IV and group A plastics), max storage height, ceiling height, method of packaging, shelving/piled methods, encapsulated or non-encapsulated, and fire sprinkler design requirements or current hydraulic placarding. A completed CPA maybe required before sprinkler plans are reviewed.

Flow Test Date	e:		24 hr. Test Date:			
Static:	_ psi	Residual: _	psi	Flow:		gpm
Design Density	//Area	:	gpm/		_ ft²	
Comments:						

Reviewer: _____

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Date: _____