2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3. SPRINKLER HEAD SPACING IS BASED ON THE NFPA 13-R STANDARDS FOR OCCUPANCIES (DWELLING) ALLOWING A MAXIMUM HEAD SPACING OF 324 S.F. PER HEAD.

4. LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.

RISER LEGEND

3 2" BLACK STEEL SCH-10 PIPE

(8) TEST AND DRAIN ASSMBLY 9 SLIP TO GRV CPVC ADAPTER

4 2" GRV BUTTERFLY VALVE W/TAMPER

10 2" BLAZEMASTER CPVC TO SYSTEM

1) 2" RUN-IN BY OTHERS 2 2" PVC TO GRV ADAPTER

5 2" VIKING EZ RISER

6 11/4" MAIN DRAIN 7 FLOW SWITCH

RISER DETAIL

5. THE WATER TEST INFORMATION HAS BEEN PROVIDED BY J&D SPRINKLER CO DATED 11/25/2024 INDICATES THE FOLLOWING..

STATIC: 78 PSI RESIDUAL: 75 PSI FLOW: 893 GPM

WHILE NOT A COMPLETE LIST, THE FOLLOWING IS INTENDED TO HIGHLIGHT MANY OF THE "DO'S" AND "DON'TS" WHEN INSTALLING CPVC BLAZEMASTER SPRINKLER PIPE

INSTALL PRODUCT ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DESIGN MANUAL. FOLLOW RECOMMENDED SAFE WORK PRACTICES.

MAKE CERTAIN THAT THREAD SEALANTS, GASKET LUBRICANTS, OR FIRE STOP MATERIALS ARE COMPATIBLE WITH BLAZEMASTER ©PVC PIPE AND FITTINGS. USE ONLY LATEX-BASED PAINTS IF PAINTING IS DESIRED.

KEEP PIPE AND FITTINGS IN ORIGINAL PACKAGING UNTIL NEEDED. COVER PIPE AND FITTINGS WITH AN OPAQUE TARP IF STORED OUTDOORS. FOLLOW PROPER HANDLING PROCEDURES. USE TOOLS SPECIFICALLY DESIGNED FOR USE WITH PLASTIC PIPE

AND FITTINGS. USE PROPER SOLVENT CEMENT AND FOLLOW APPLICATION INSTRUCTIONS. USE A DROP CLOTH TO PROTECT INTERIOR FINISHES.

CUT THE PIPE ENDS SQUARE DEBURR AND BEVEL THE PIPE END BEFORE SOLVENT CEMENTING. ROTATE THE PIPE ONE EIGHTH TO ONE QUARTER TURN WHEN BOTTOMING PIPE IN FITTING SOCKET.

AVOID PUDDLING OF SOLVENT CEMENT IN FITTINGS AND PIPE. MAKE CERTAIN THAT SOLVENT CEMENT DOES NOT RUN AND PLUG THE SPRINKLER HEAD ORIFICE. FOLLOW THE MANUFACTURER'S RECOMMENDED CURE TIMES PRIOR TO

PRESSURE TESTING. FILL LINES SLOWLY AND BLEED THE AIR FROM THE SYSTEM PRIOR TO PRESSURE TESTING.

INSTALL BLAZEMASTER CPVC IN WET FIRE SPRINKLER SYSTEMS ONLY.

SUPPORT SPRINKLER HEAD PROPERLY TO PREVENT LIFT UP OF THE HEAD THROUGH THE CEILING WHEN ACTIVATED. KEEP THREADED ROD WITHIN 1/16" (1.588 mm) OF THE PIPE.

USE ONLY INSULATION AND/OR GLYCERIN AND WATER SOLUTIONS FOR FREEZE PROTECTION. ALLOW FOR MOVEMENT DUE TO EXPANSION AND CONTRACTION. RENEW YOUR BLAZEMASTER CPVC FIRE SPRINKLER INSTALLATION

TRAINING EVERY TWO YEARS.

DON'TS

DO NOT USE EDIBLE OILS SUCH AS CRISCO AS A GASKET LUBRICANT. DO NOT USE PETROLEUM OR SOLVENT-BASED PAINTS, SEALANTS, LUBRICANTS OR FIRE STOP MATERIALS.

DO NOT USE ANY GLYCOL BASED SOLUTIONS AS AN ANTI-FREEZE. DO NOT MIX GLYCERIN AND WATER SOLUTIONS IN CONTAMINATED CONTAINERS.

DO NOT USE BOTH TEFLON TAPE AND THREAD SEALANTS SIMULTANEOUSLY.

DO NOT USE SOLVENT CEMENT THAT EXCEEDS ITS SHELF LIFE OR HAS BECOME DISCOLORED OR GELLED.

DO NOT ALLOW SOLVENT CEMENT TO PLUG THE SPRINKLER HEAD ORIFICE. DO NOT CONNECT RIGID METAL COUPLERS TO BLAZEMASTER CPVC GROOVED ADAPTERS.

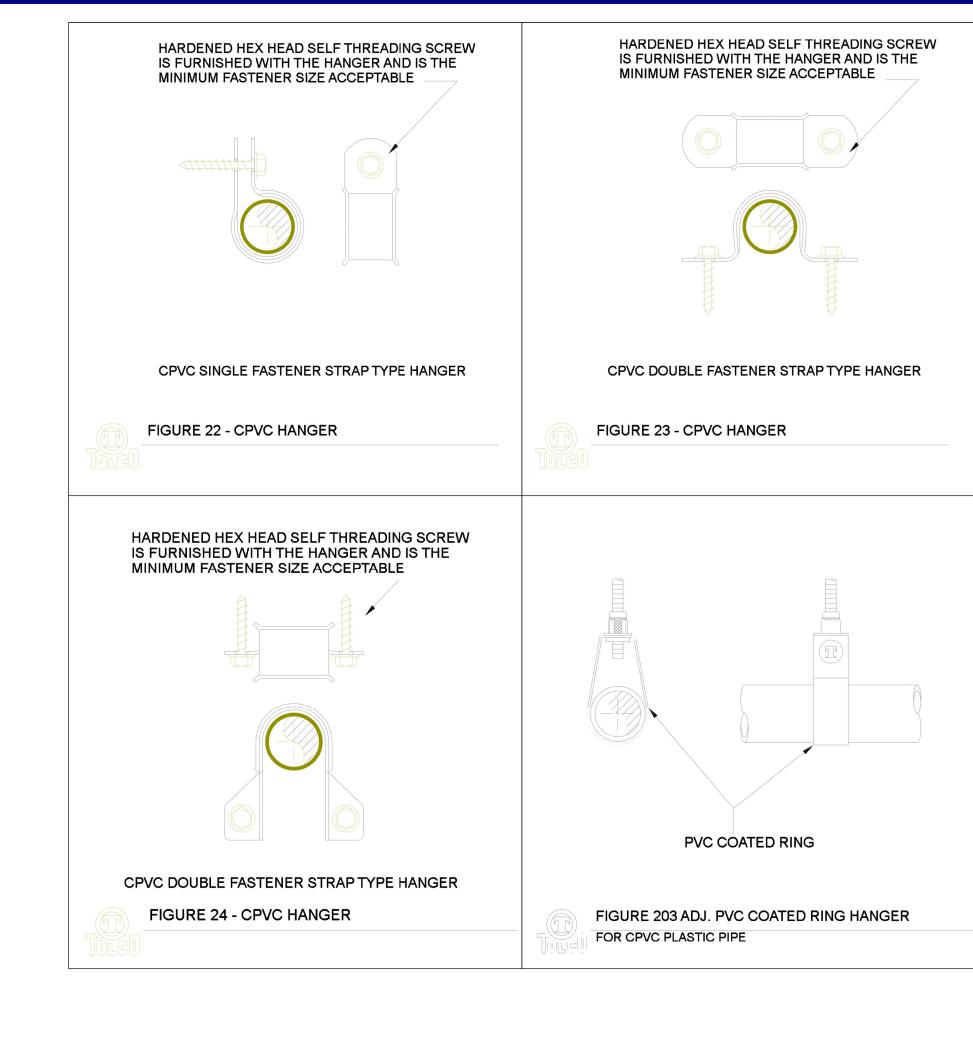
DO NOT THREAD, GROOVE OR DRILL BLAZEMASTER CPVC PIPE. DO NOT USE SOLVENT CEMENT NEAR SOURCES OF HEAT, OPEN FLAME, OR WHEN SMOKING.

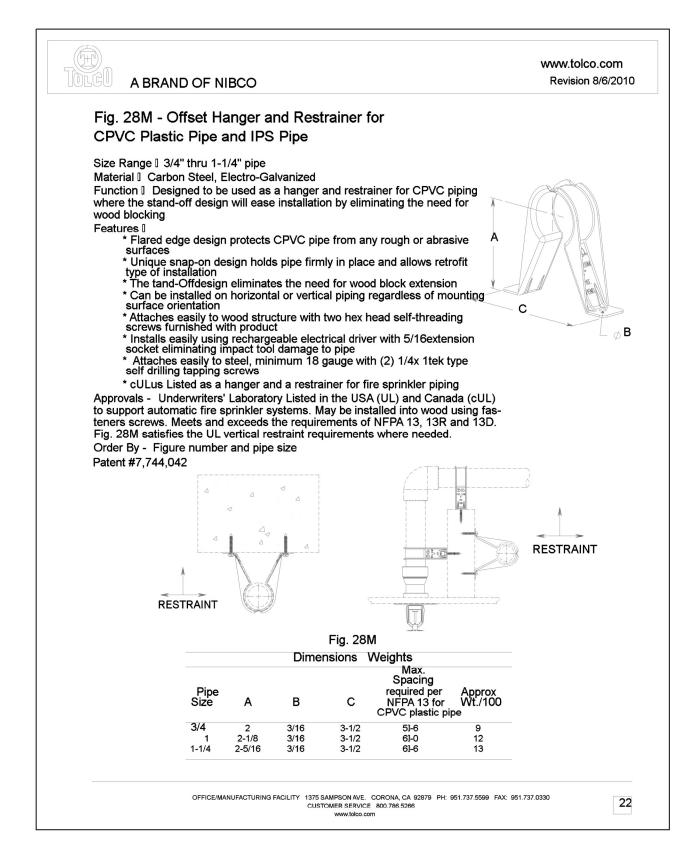
DO NOT PRESSURE TEST UNTIL RECOMMENDED CURE TIMES ARE MET. DO NOT USE DULL OR BROKEN CUTTING TOOL BLADES WHEN CUTTING BLAZEMASTER PIPE.

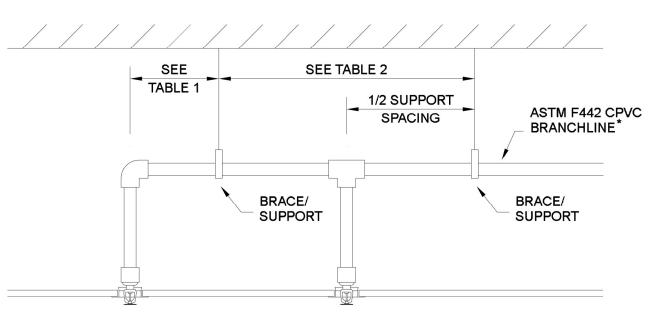
DO NOT USE BLAZEMASTER CPVC PIPE THAT HAS BEEN STORED OUTDOORS, UNPROTECTED AND IS FADED IN COLOR. DO NOT ALLOW THREADED ROD TO COME IN CONTACT WITH THE PIPE. DO NOT INSTALL BLAZEMASTER CPVC PIPE AND FITTINGS IN COLD WEATHER

WITHOUT ALLOWING FOR EXPANSION. DO NOT INSTALL BLAZEMASTER CPVC PIPE AND FITTINGS IN DRY SYSTEMS. DO NOT PRESSURE TEST WITH AIR OR COMPRESSED GAS.

NOTE: THIS LIST DOES NOT CONSTITUTE A COMPLETE INSTALLATION GUIDE

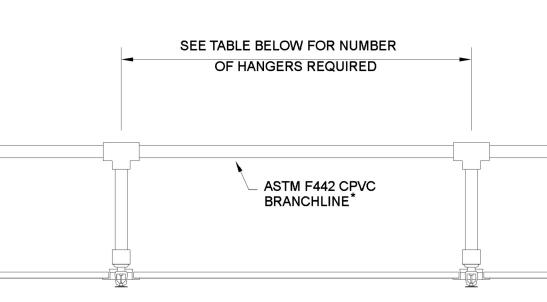






* NSF INTERNATIONAL APPROVED FOR USE WITH POTABLE WATER

	TABLE 1		TABLE 2					
	M SUPPORT SPACING SPRINKLER HEAD D		MAXIMUM SUPPORT SPACING DISTANCE INLINE SPRINKLER HEAD DROP TEE					
PIPE SIZE	SYSTEM P	RESSURE	PIPE SIZE	SYSTEM PRESSURE				
inches	< 100 psi	> 100 psi	inches	< 100 psi	> 100 psi			
3/4"	9"	6"	3/4"	4'	3'			
1"	12"	9"	1"	5'	4'			
11⁄4"	16"	12" 11/4"		6'	5'			
1½"-3"	24"	12"	1½"-3"	7'	7'			



		OWABLE HANGERS	
PIPE SIZE		Pipe Length	
inches	1 Hanger	2 Hangers	3 Hangers
3/4"	0'-0" TO 5'-6"	5'-7" TO 11'-0"	11'-1" TO 16'-6"
1"	0'-0" TO 6'-0"	6'-1" TO 12'-0"	12'-1" TO 18'-0"
1¼"	0'-0" TO 6'-6"	6'-7" TO 13'-0"	13'-1" TO 19'-6"
1½"	0'-0" TO 7'-0"	7'-1" TO 14'-0"	14'-1" TO 21'-0"
2"	0'-0" TO 8'-0"	8'-1" TO 16'-0"	16'-1" TO 24'-0"
2½"	0'-0" TO 9'-0"	9'-1" TO 18'-0"	18'-1" TO 27'-0"
3"	0'-0" TO 10'-0"	10'-1" TO 20'-0"	20'-1" TO 30'-0"

* NSF INTERNATIONAL APPROVED FOR USE WITH POTABLE WATER

C	URE TIMES WITH ON: 225 psi (MAXIMI	IE STEP SOLVENT CE UM) TEST PRESSURE	EMENT
PIPE SIZE	Ambier	nt Temperature During Cure	Period
inches	60°F to 120°F	40°F to 59°F	0°F to 39°F
3/4"	1 hr.	4 hr.	48 hr.
1"	1.5 hr.	4 hr.	48 hr.
11⁄4"	3 hr.	32 hr.	10 days
1½"	3 hr.	32 hr.	10 days
2"	8 hr.	48 hr.	See Note 1
21/2"	24 hr.	96 hr.	See Note 1
3"	24 hr.	96 hr.	See Note 1

For these sizes, the solvent cement can be applied at temperatures below 32°F, however, the sprinkler system temperature must be raised to a temperature of 32°F or above and allowed to cure per the above recommendations prior to pressure testing.

Sprinkler Design Data

Project Name: AMPLE STORAGE - E	System: 1	
Project Street Address: JACKSON I	Sys. Sq. Ft.: 1200	
Suite:-	Floor#: -	Ceiling Height: -
Designed By: J&D SPRINKLER	Phone: 919-553-2356	Total Bldg. Hgt.: 13'-9
Occupancy: DWELLING	Hazard: RESIDENTIAL	

Design Summary

		20051	•		
	SYSTEM #1	-	-	-	-
Design Method	CALCULATED	-	-	-	-
Design Area #	REMOTE AREA #1	-	-	-	-
Location	LIVING/KITCHEN AREA	-	-	-	-
Type of System	WET	-	-	-	-
Hazard Class	RESIDENTIAL	-	-	-	-
Criteria From	NFPA 13R	-	-	-	-
Design Area	1 COMPARTMENT	-	-	-	-
Sprinkler Spacing	18' X 18' MAX	-	-	-	-
Density	.05	-	-	-	-
K-factor	4.9	-	-	-	-
Hose Allowance	-	-	-	-	-
# Design Sprinklers	4	-	-	-	-
Special Application Spk.	RESIDENTIAL	-	-	-	-
Requirement @ BASE					
G.P.M. Req'd	70.22	-	-	-	-
P.S.I. Req'd	21.254	-	-	-	-
Requirement @ TEST					
GPM Required	70.22	-	-	-	-
PSI Required	60.016	-	-	-	-
Safety factor @ Test	17.957	-	-	-	-
Dry Sys. Volume (gal)	-	-	-	-	-

Water Supply Information

Tested by	J&D SPRINKLER CO	Date/Time	11/25/2024	Pressure Hydrant	-
Hydrant Elevation	-	Flow Hydrant # 1	-	Flow Hydrant #2	-
Static (PSI)	78	Residiual (PSI)	75	Flow (gpm)	893
	Сору о	f Water Test Data Inclu	ided with Calculation i	s required	

Fire Pump Data

Rated G.P.M.		Rated Pressure		Horsepower	
Diesel/Elestric		Churn Pressure	-	Style of pump	- /
Combined Discharge	-	150%%% Flow (suction)		150%%% Flow (gpm)	/
		Certified pum	p curve required		

If Storage is Greater than 12 Feet Complete Commodity Storage Design Information

Comodity Description _					Storage Type	Bin,Pile)	-				
Comod	Comodity Class _		Storage H	eight	- /	C	learance	-			
Stable/	Unstable			Open/C	lose			,	Vet/Dry		
		-		Arra	y	_			System	-	
Figure #	Curve #		Density	Height	Clear	Array	ı	Dry	Design	Minimum	Final
-	-	-	Area	Factor	Factor	Factor	Po	enalty		Design	Design
		Initial	-	-	-	-	-		>	-	-
			2 - 6	-	-	-	-		-		2 - (
		Secon	-	-	-	-	-		-	-	-
		-dary	-	-	-	-	-		-	-	
Is system	compliant with	n Chapter 23 (FPC)	-	Is s	storage area layo	ut, rack	, and pile	olan include	d?	

DANA GRAHAM NC # 16269FS CERT # 71075 JASON GHAMAM

NC # 16269FS CERT # 121842 NICET LEVEL II

11/26/2024

1/8"=1'-0"

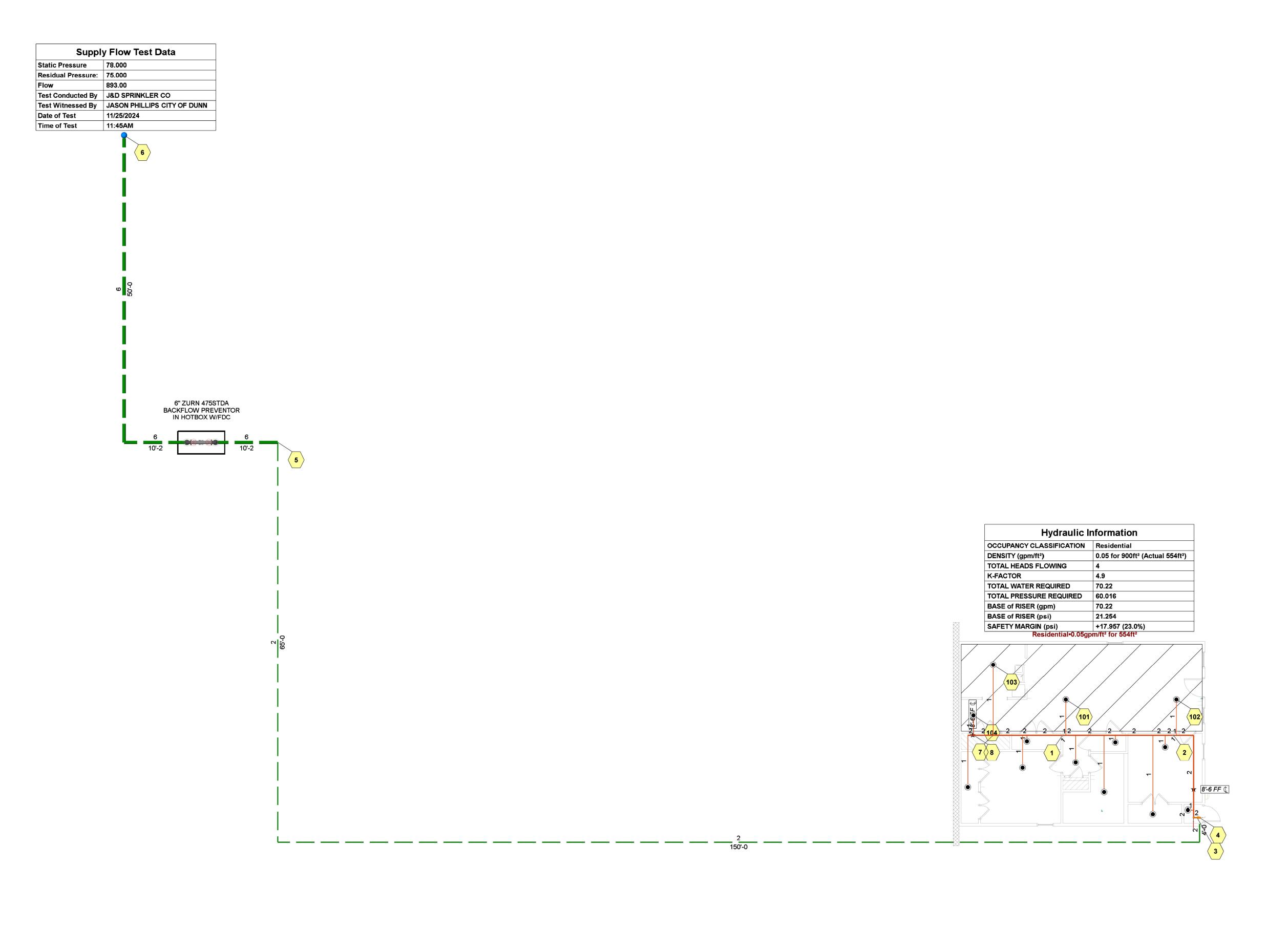
Job Number:

B24263

Drawn By: MWL

Sheet Number

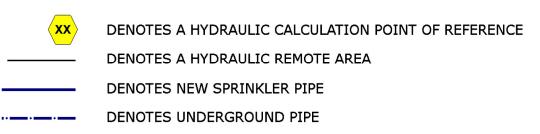
FP-1





	Sprinkler Legend													
mbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note			
lacksquare	Viking	VK468	Residential	13	4.9	Pendent	1/2	Quick	White	175°F	18' X 18' MAX			
				Total = 13										

SYMBOLS:



DANA GRAHAM NC # 16269FS CERT # 71075
NICET LEVEL III

JASON CRAHAM

NC # 16269FS CERT # 121842
NICET LEVEL III

REVISION:
NO. DATE

Date: 11/26/2024

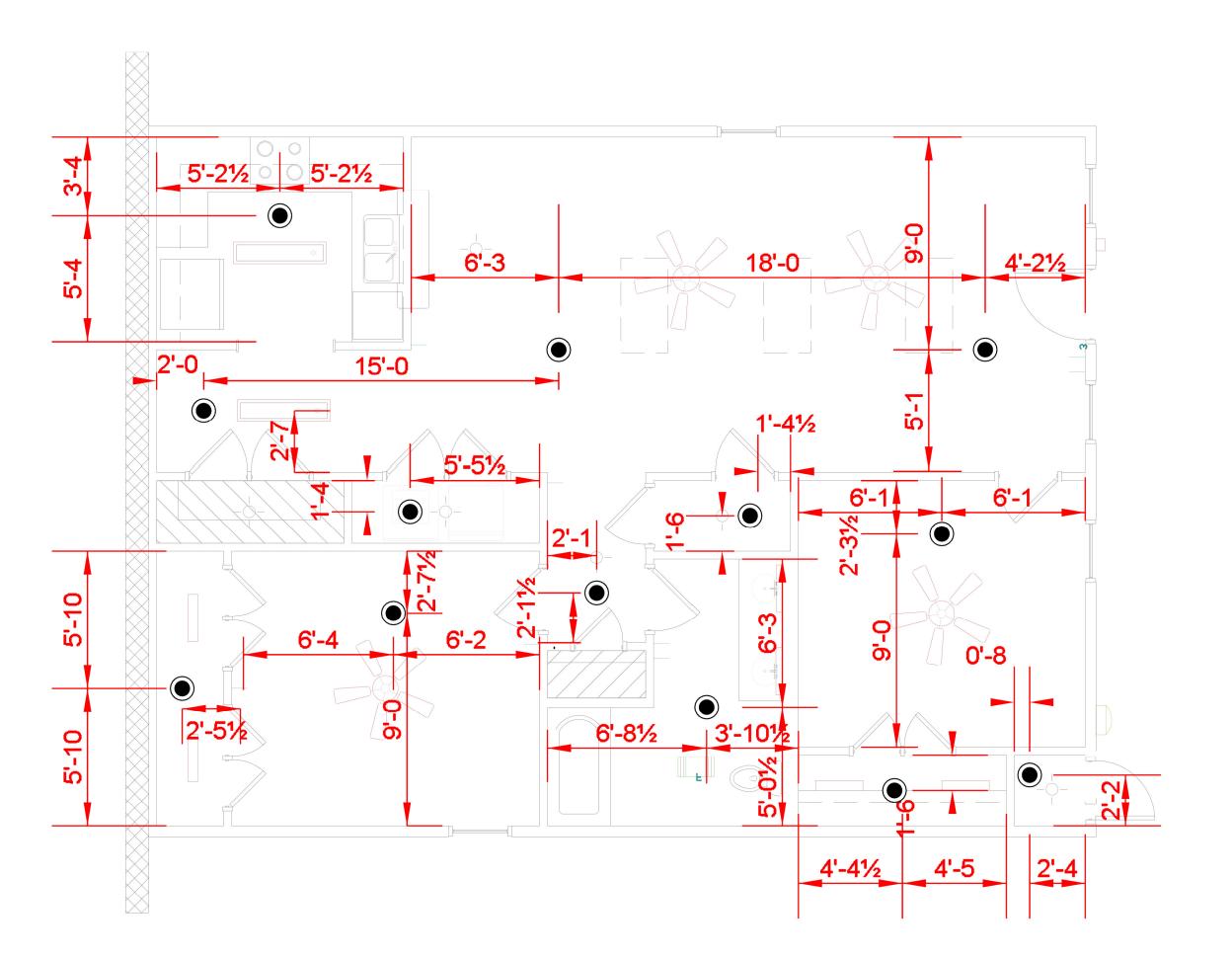
Scale: 1/8"=1'-0"

> Job Number: B24263

Drawn By: MWL

Sheet Number

FP-2





	Sprinkler Legend													
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note			
	Viking	VK468	Residential	13	4.9	Pendent	1/2	Quick	White	175°F	18' X 18' MAX			
				Total = 13										

SPRINKLERS OMITTED IN HATCHED AREAS IN ACCORDANCE WITH NFPA13R 6.6.2 & 6.6.3

JACKSON BLVD-US HWY ERWIN NC

REFLECTED CEILING PLAN

DANA GRAHAM

NC # 16269FS CERT # 71075
NICET LEVEL III

JASON CRAHAM

NC # 16269FS CERT # 121842
NICET LEVEL III

REVISION:
NO. DATE

Date: 11/26/2024

Scale: 1/8"=1'-0" 10'

Job Number:

B24263 Drawn By:

MWL Sheet Number

FP-3