

FIRE PROTECTION WATER SUPPLY

PUBLIC FLOW TEST: 120 PSI STATIC; 91 PSI RESIDUAL; 1500 GPM FLOW

TEST LOCATION: HYDRANT AT THE PROPERTY, ABOUT 200' AWAY FROM THE BUILDING

FIRE PUMP

MISC. NOTES:

X PUBLIC PUBLIC + PUMP

DATE OF TEST: 03-08-2024 AT 9:30 AM

FIRE PUMP DATA: CAPACITY

SOURCE OF TEST:

STORAGE TANK SIZE:

THE SYSTEM SHALL BE COMPRISED OF A WET-PIPE RISER SERVING ALL AREAS.

USING QUICK RESPONSE SPRINKLERS RATED FOR ORDINARY TEMPERATURES AND

ROOM AS SHOWN ON THIS SHEET. THE DURATION OF THE SUPPLY

WILL BE ADEQUATE FOR THIS APPLICATION.

LIGHT HAZARD AREAS SHALL BE DESIGNED FOR 0.10 GPM/SQFT OVER THE MOST DEMANDING DESIGN AREA PER NFPA 13, 2016 REQUIREMENTS PLUS APPROPRIATE HOSE ALLOWANCE,

SPACED AT A MAXIMUM COVERAGE AS DEFINED IN NFPA 13, 2016. WATER SUPPLY CHARACTERISTICS: THE WATER SUPPLY IS FROM A 12" CITY MAIN RUNNING NEARBY THE PROPERTY. A 4" UNDERGROUND MAIN WILL BE CONNECTED TO THE EXISTING FIRE HYDRANT UNDERGROUND PIPING. A 4" BACKFLOW PREVENTER, WILKINS 350DA, 4X2.5X2.5 FIRE DEPARTMENT CONNECTION WILL BE INSTALLED RIGHT AFTER CONNECTION TO THE WATER MAIN. A 4" FIREWATER MAIN WILL THEN BE ROUTED TO THE RISER

## SYMBOL DESCRIPTION NEW CONNECTION ELEVATION — FINISHED FLOOR TO CENTER LINE OF THE PIPE CEILING HEIGHT ROOM NUMBER ELEVATION- FINISH FLOOR TO BOTTOM OF THE STEEL HANGER HYDRAULIC POINT 1x4 RECESSED FLUORESCENT LIGHT DOWNLIGHT, SCONE FIXTURE 2x4 RECESSED FLUORESCENT LIGHT SWITCH, OCCUPANCY SENSOR, CEILING MOUNTED SWITCH, DAYLIGHT SENSOR, CEILING MOUNTED 1'x4' LIGHTING FIXTURE, RECESSED CEILING MOUNTED EXIT/AREA REFUGE LIGHT, SMOKE DETECTOR, CEILING MOUNTED DIFFUSER GRILLE RETURN AIR GRILLE GYPSUM WALLBOARD CEILING 2x2 LAY-IN ACOUSTICAL CEILING

# FIRE PROTECTION GENERAL NOTES

# 1. FIRE PROTECTION SYSTEM(S) TO COMPLY WITH NFPA 13 (2016), NFPA 24 (2016)

ADHERE TO AND OBTAIN ALL PERMITS, LICENSES 5. FINAL INSPECTION AND APPROVAL BY FIRE MARSHAL AND ARCHITECT/ENGINEER. 4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH

REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY

STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY

METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13.

ACCESS PANELS AND SIGNS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS (BY OTHERS). 10. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS

12. AUTOMATIC SPRINKLER TEMPERATURE RATINGS TO BE IN ACCORDANCE WITH NFPA 13.

13. ALL COMPONENTS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) 14. ALL COMPONENTS SHALL BE LISTED FOR THE MAXIMUM SYSTEM PRESSURE, 175 PSI MINIMUM. 5. VALVES ON THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SUPERVISED.

TYPE AND EXACT LOCATION OF FLOW, PRESSURE, AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBILE TRADES. ADDITIONAL WIRING OR DEVICES REQUIRED SHALL BE PROVIDED.

ALL POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION.

20. PROVIDE HYDRAULIC DESIGN INFORMATION SIGNS AT EACH SYSTEM RISER.

ALL UPRIGHT SPRINKLERS (EXCLUDING SPRINKLERS BELOW THE DUCT) TO HAVE A DISTANCE OF 1" TO 12"

22. ALL SYSTEMS TO HYDROSTATICALLY TESTED AT 200PSI FOR 2 HOURS AND THE MATERIAL TEST CERTIFICATE SHALL BE PROVIDED TO THE OWNER

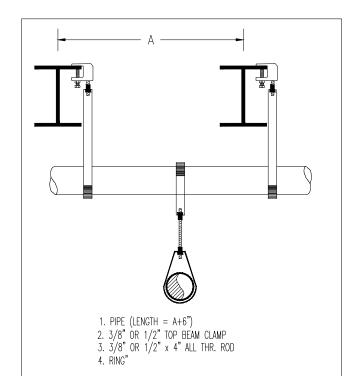
23. PROVIDE LOW POINTS DRAINS FOR ALL PORTIONS OF SYSTEMS WITH 5 GALLONS OR MORE OF TRAPPED WATER 24. PROVIDE STOCK OF SPARE SPRINKLERS AND HEAD WRENCH IN A MOUNTED CABINET AS REQUIRED.

### FIRE PROTECTION PIPE TYPE

1" - 1½" PIPING (IF THREADED) BLACK STEEL, SCHEDULE 40 1¼" - 6" PIPING (IF GROOVED OR WELDED) BLACK STEEL, SCHEDULE 10 UNDERGROUND PIPE (INSTALLED BY OTHERS): 4" PIPING (NEW) BLUBR150-C900-DR18 6" & 8" PIPING (EXISTING)

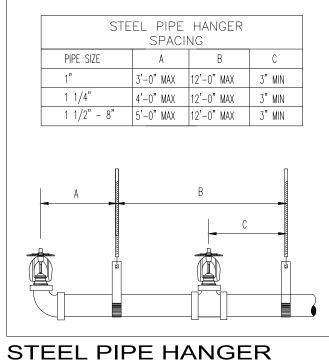
DUCTILE IRON

HANGER SPACING TABLE									
	MAXIMUM [	DISTANCE BI	etween ha	NGERS IN .	ACCORDAN( 	CE TO NFPA	A 13 		
PIPE SIZE	1 "	11/4"	1 <u>1</u> "	2"	2 <u>1</u> "	4"	4"	6"	8"
SCH. 10 - 40	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"



**HEADER DETAIL** 

SCALE: NOT TO SCALE



LOCATION DETAIL SCALE: NOT TO SCALE

#### TOP BEAM CLAMP **HANGER**

BEAM CLAMP -3/8" FOR 1"-4" PIPE

½" FOR 6" PIPE

ALL THREAD ROD

√3/8" FOR 1"-4" PIPE

HANGER RING 1"-4"; CLEVIS 4"-6"

SCALE: NOT TO SCALE



•No cutting, no welding, no threading Perfect for retrofit applications •Easy to move for layout changes **TECHNICAL DATA** 

 UL Approved for Unbraided •Rated Pressure: 203 PSI (14 Bar) •Max. Burst Pressure: 875 PSI (70 Bar) •Maximum Ambient Temperature: 225°F (107°C) •Maximum Sprinkler K-factor for 1/2" outlet: 8.0 gal/mm/(psi) 1/2 •Maximum Sprinkler K-factor for 3/4" outlet: 14.0 gal/mm/(psi) 1/2 •Designed for use in wet and dry systems Hose Diameter: 0.D. 1-1/16" / Flow 7/8"

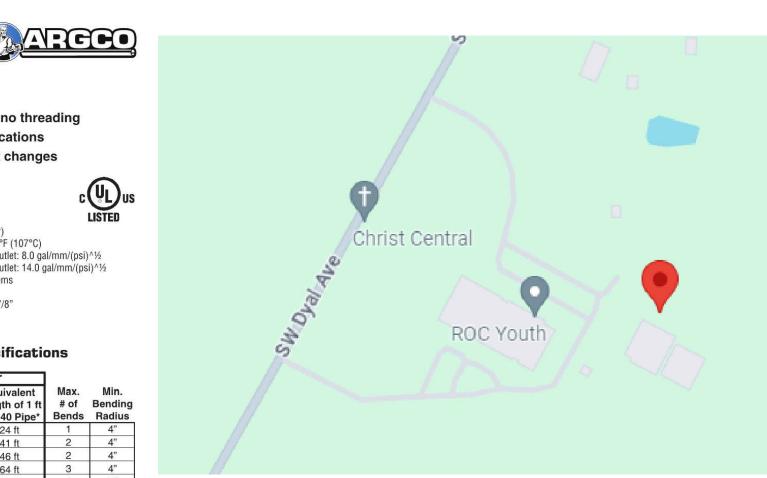
Friction Loss Data and Specifications

RAIDED	DED CULUS	Γ	1/2" NPT		ſ	3/4" NPT			
	LISTED	Length	ITEM#	Equivalent Length of 1 ft Sch 40 Pipe*	Ī	ITEM #	Equivalent Length of 1 ft Sch 40 Pipe*	Max. # of Bends	Min. Bending Radius
AR-UB FLE	X-07	28" (0.6 m)	6530160	18 ft	Т	6530170	24 ft	1	4"
AR-UB FLE	X-10	40" (0.9 m)	6530161	33 ft		6530171	41 ft	2	4"
AR-UB FLE	X-12 X	48" (1.2 m)	6530162	<b>X</b> 43 ft	1	6530172	46 ft	2	4"
AR-UB FLE	X-15	60" (1.5 m)	6530163	63 ft		6530173	64 ft	3	4"
AR-UB FLE	X-18	72" (1.8 m)	6530164	78 ft	T	6530174	80 ft	4	4"
				*Based on UL Listing			*Based on UL Listing		1

#### COMPONENT LIST

NO	Part Name	Material		QTY	Anchoring components are intended for use with drop ceilings					
1 2 3 4 5 6 7 8 9	3 Isolation Ring Nylon 66   4 O-Ring EPDM   5 Reducer Zinc Plated Steel   6 Nipple Galv Steel (ASTM283)   7 Center Bracket Galv Steel (ASTM283)   8 End Bracket Galv Steel (ASTM283)		3) 3) 3)	1 2 1 1 1 1 1 2	conforming to ASTM C635 and	d other major standards when in d practice for installation of me oustical tile and lay-in panel, AS				
Sys	tem No.		Location		Spec Section	Paragraph				
Submitted By			Date		Approved	Date				

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**LOCATION MAP** SCALE: N.T.S.

## FIRE PROTECTION DRAWING LEGEND

SHEET NUMBER	SHEET TITLE
FP - 1	FIRE SPRINKLER PLAN - SITE PLAN, DETAILS AND NOTES
FP - 2	FIRE SPRINKLER PLAN — FLOOR PLAN AND SECTION

STAR



**FIRE SPRINKLERS** 

ENGINEERING DESIGNING FABRICATION INTALLATION INSPECTION BFP TESTING

686 EDGEWOOD AVE N JACKSONVILLE, FL 32254

TEL: 904 384-1066

E-MAIL:

INFO@STARFIRESPRINKLERS,COM

AN - SITE D NOTES

PRINKLE

DATE:	04-09-2024
DESIGNED BY:	DESIGNER
DRAWN BY:	DESIGNER
SCALE:	AS NOTED
J□B No:	NA
SHEET OF:	1 OF 2
SHEET No:	FP - 1