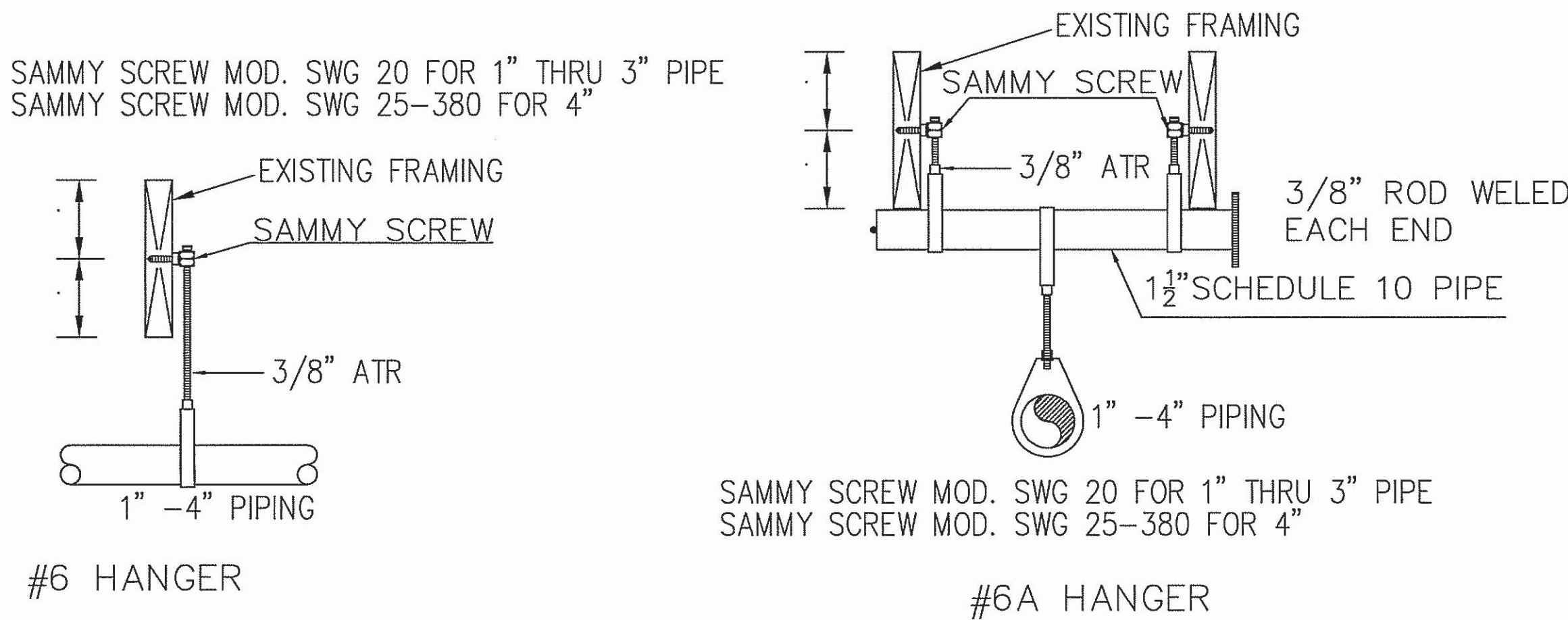


Project Name: Good Hope Behavioral Urgent Care		System: Wet
Project Street Address: 410 Dentin Drive		Sys. Sq. Ft.: n/a
Suite:	Floor#:	Ceiling Height: Varies
Designed by: Carolina Fire Protection	Phone: (910)-892-1700	Total Bldg. Hgt.: 24'-0"
Occupancy: Hospital / Mechanical mezzanine	Hazard: Light Hazard / Ordinary Hazard Group 1	

	Single Line	Offices	Attic
Design Method	HYDRAULIC CALC.	HYDRAULIC CALC.	HYDRAULIC CALC.
Design Area #	1	2	3
Location	Remote Area #1	Remote Area #2	Remote Area #3
Type of System	Wet System	Wet System	Wet System
Hazard Class	Light	Light	Ordinary Group 1
Criteria From	NFPA 13	NFPA 13	NFPA 13
Design Area	300 Sq.Ft.	1043	1340
Sprinkler Spacing	225 sqft	225 sqft	130 sqft
Density	.10	.10	.15
	5.8	5.8	5.8
Hose Allowance	100	100	200
# Design Sprinklers	4	12	16
Special App. Spk.	N/A	N/A	N/A
Requirement @	BASR	BASR	BASR
G.P.M. Req'd	179.718	311.14	298.59
P.S.I. Req'd	36.152	30.73	36.75
Safety Factor @	TEST	TEST	TEST
Safety Factor (psi)	10.47 psi 22.5%	14.35 psi 31.2%	7.47 psi 17.0%
System Sq Ft	14.772	14.772	14.772
Dry Sys. Vol. (gal)	n/a	n/a	n/a

Water Supply Information					
Tested by	Carolina Fire Protection	Date/Time	9/10/25	Pressure Hydrant	
Hydrant Elevation					
Static (PSI)	47 psi	Residual (PSI)	42 psi	Flow (gpm)	729

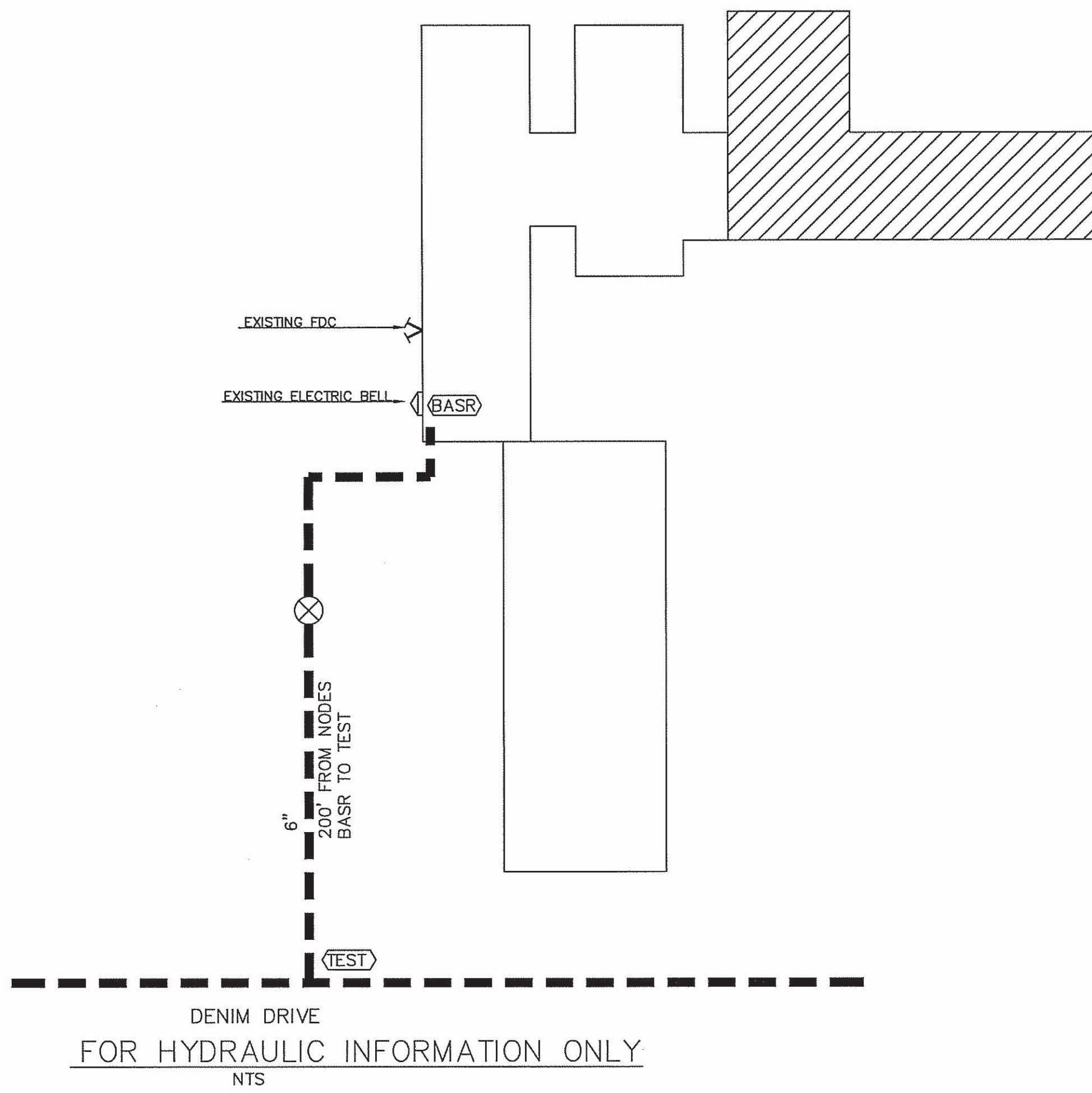
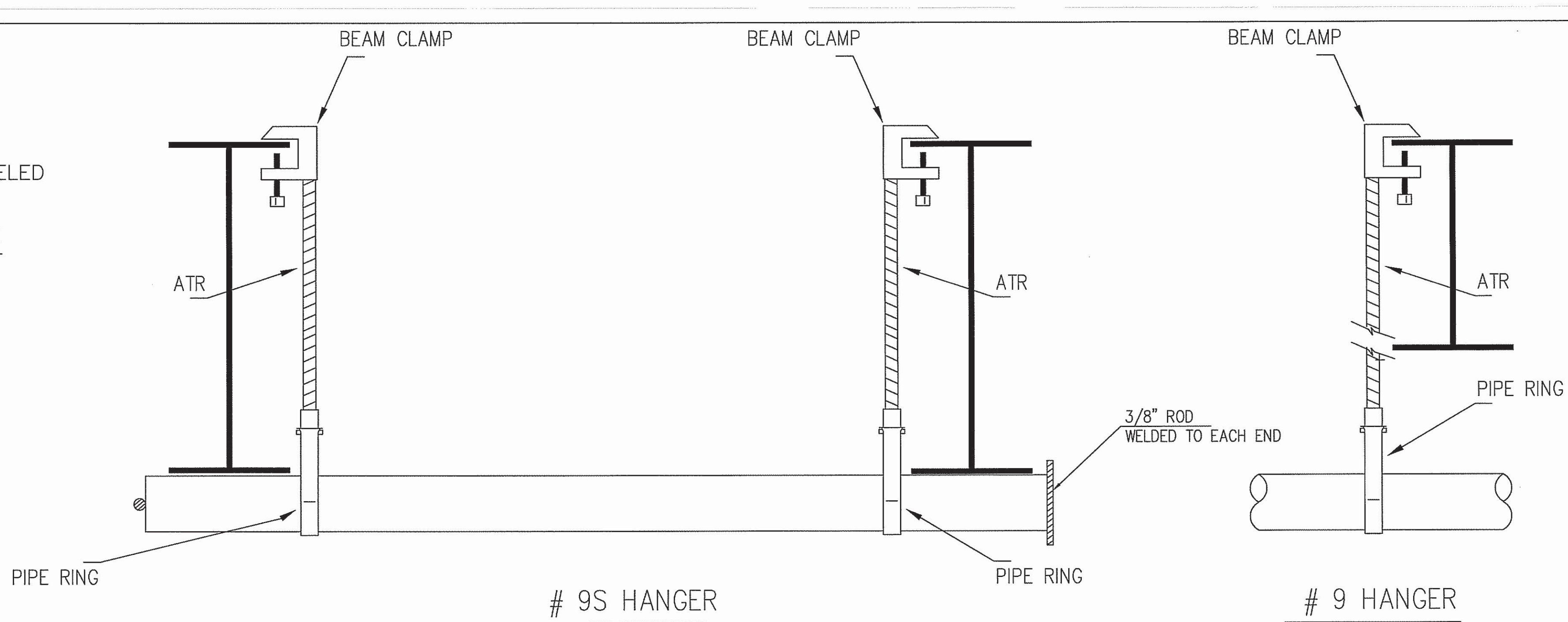
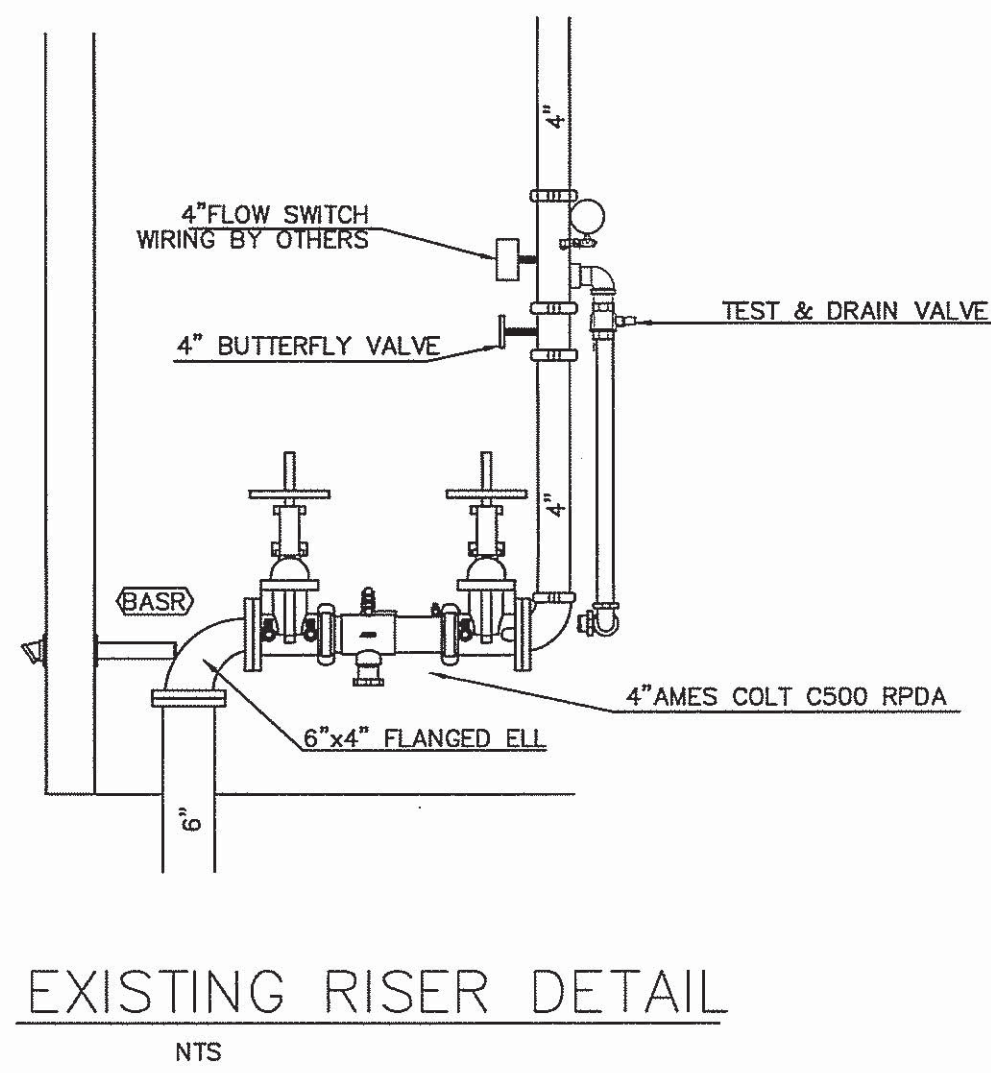
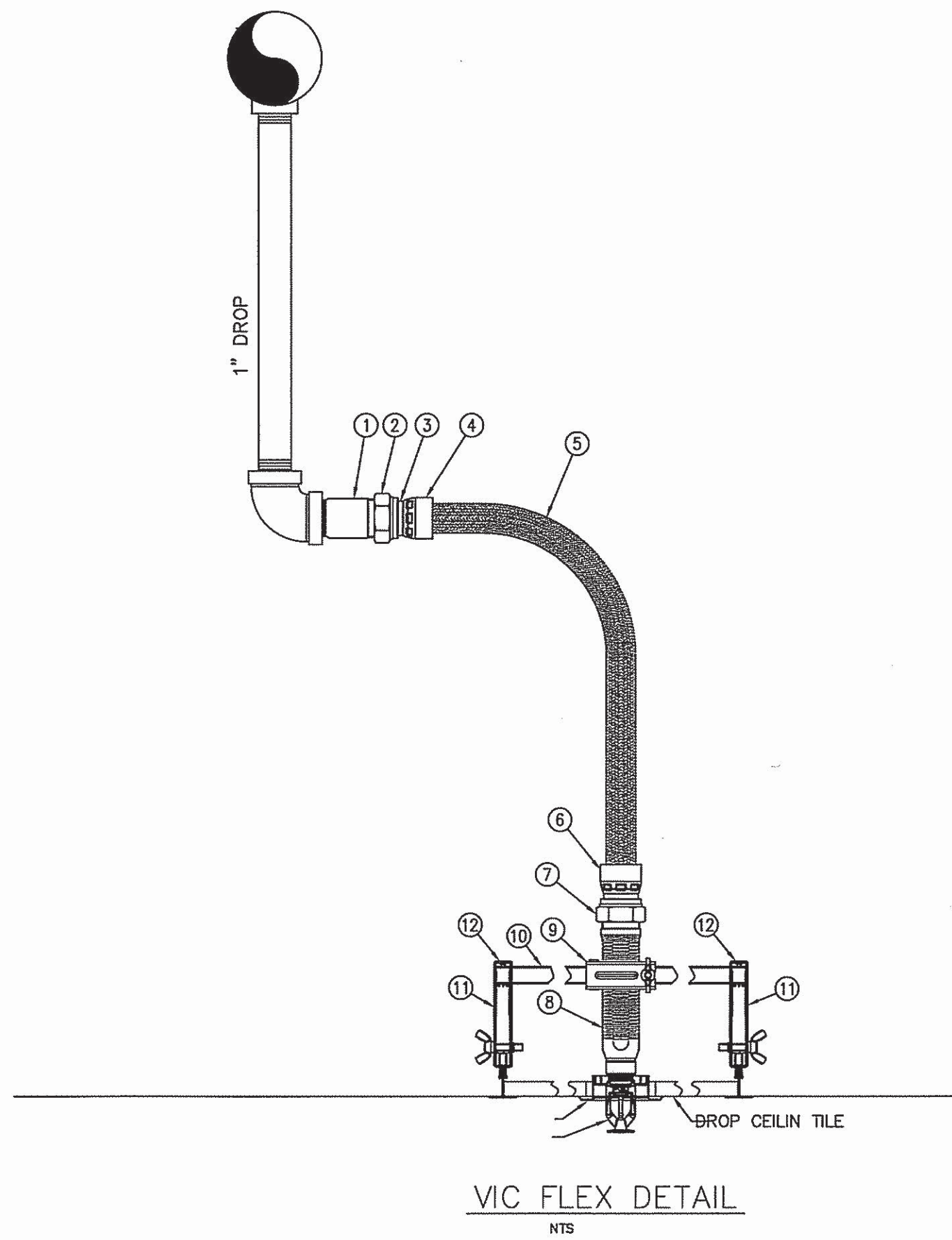
- SCOPE OF WORK REMOVE EXISTING 4" GROOVED CAP AT END OF EXISTING CEILING AND INSTALLING NEW WET TYPE SPRINKLER THRU OUT EXISTING BUILDING THAT IS BEING RENOVATED.
- DESIGN FOR THE HOSPITAL AREA-A: 10 GPM DENSITY OVER 1043 SQ.FT. AREA PLUS 100 GPM FOR HOSE ALLOWANCE
- DESIGN FOR THE MECHANICAL MEZZANINE-A DENSITY OF .15 OVER 1340 SQUARE FOOT AREA PLUS 250 GPM FOR HOSE ALLOWANCE FOR ORDINARY HAZARD OCCUPANCY. MAXIMUM SPACING 130 SQ.FT.
- ALL WORK WILL BE INSTALLED IN ACCORDANCE WITH NFPA 13, 2013 EDITION
- 1" PIPE TO BE SCHEDULE 40 BLACK STEEL PIPE.
- 1/2" THRU 4" PIPE TO BE SCHEDULE 10 BLACK STEEL PIPE.
- INSTALL BAGS OVER UPRIGHT SPRINKLERS IN MECHANICAL MEZZANINE, ONCE INSULATION IS SPRAYED AT ROOF THE BAGS ARE TO BE REMOVED.
- SEE SECTION OB SHEET PP-5 SHOWING WHERE THERE IS NO PENETRATION ALLOWED THRU MEZZANINE FLOOR



HANGER INSTALLATION REQUIREMENTS									
MAXIMUM DISTANCE BETWEEN HANGERS									
NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	
BLAZEMASTER CPVC	5' 6"	6' 0"	6' 6"	7' 0"	8' 0"	9' 0"	10' 0"	N/A	N/A
THREADABLE LIGHTWALL	N/A	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	N/A	N/A
STEEL PIPE (10/ 40)	N/A	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"

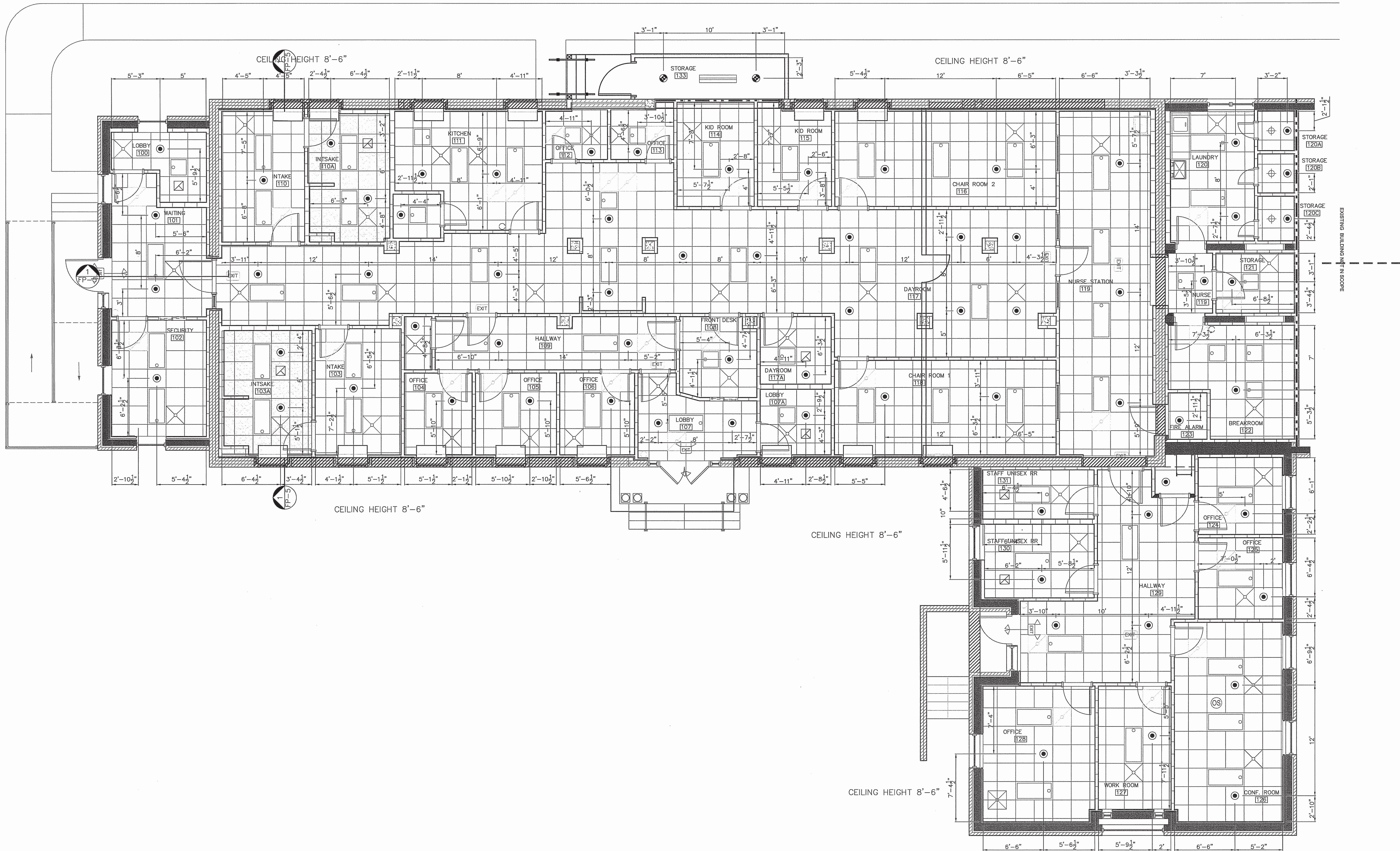
THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"



NO.	DATE	BY	REVISIONS - SEE FLAGGED AREA ON PLAN

IMPORTANT		CONTRACT RESPONSIBILITIES		SYMBOLS		ABBREVIATIONS		SYSTEM TYPE		APPROVALS		TOTAL SPRINKLERS SHOWN ON THIS SHEET		TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT	
ITEM		C.F.P. / OTHERS		SYMBOLS		ABBREVIATIONS		SYSTEM TYPE		APPROVALS		TOTAL SPRINKLERS SHOWN ON THIS SHEET		TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT	
STREET WATER CONNECTION		BY OTHERS		CEILING HT. ABOVE REF.		BOD Bottom of Beam		WET ☐ DELUGE ☐		☐ ISO		0		0	
UNDERGROUND WATER MAINS		BY OTHERS		C/L OF PIPE BELOW BO		BOD Bottom of Deck		DRY ☐ PREACTION ☐		☐ IRI		156		156	
EXCAVATIONS		BY OTHERS		C/L OF PIPE ABOVE REF.		BOD Bottom of Floor				☐ FM		0		0	
BACKFILL		BY OTHERS		HYDRAULIC REF. POINT		BOD Bottom of Joist				☐ OUT		0		0	
WIRING		BY OTHERS		LINE DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
PAINTING		BY OTHERS		A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
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				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN DESIGNATION		BOD Bottom of Sill				☐ OUT		0		0	
				A1 MAIN											



EXISTING BUILDING NOT IN SCOPE

NO.	DATE	BY	REVISIONS - SEE FLAGGED AREA ON PLAN

CONTRACT NAME: **GOOD HOPE HOSPITAL**
BEHAVIORAL URGENT CARE
410 JENNIFER DRIVE
BRYAN, NC

CONTRACT WITH: **STE. GENERAL CONTRACTORS**
DESCRIPTION: **CEILING PLAN**

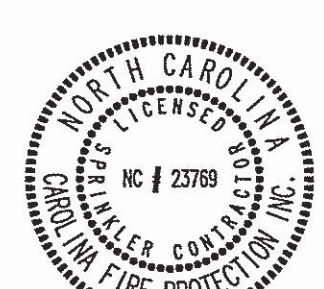
SYSTEM DESIGN DATA
CONTRACT NO: 250031
DRAWN BY: WMF
DRAWING NO. FP 3 of 5



CAROLINA FIRE PROTECTION

4055 HODGES CHAPEL ROAD
Dunn, N.C. 28334
Phone (910) 892-1700
Fax (910) 892-7322

SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	SIZE	MODEL	MAKE	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
○	1/2"	QR	VICTUALIC	V2704	BRASS	UPRIGHT	200°	5.6	57
⊙	1/2"	QR	VICTUALIC	V2704	BRASS	UPRIGHT ON SPRIG UP	200°	5.6	25
⊗	1/2"	QR	VICTUALIC	V5608	BRASS	CONCEALED SPACE UPRIGHT ON SPRIG UP	200°	5.6	4
⊕	1/2"	QR	VICTUALIC	V2708	WHITE	RECESSED PENDENT	155°	5.6	68
⊖	1/2"	QR	VICTUALIC	V3614	WHITE	DRY PENDENT	155°	5.6	2
TOTAL SPRINKLERS SHOWN ON THIS SHEET							70		
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT							156		



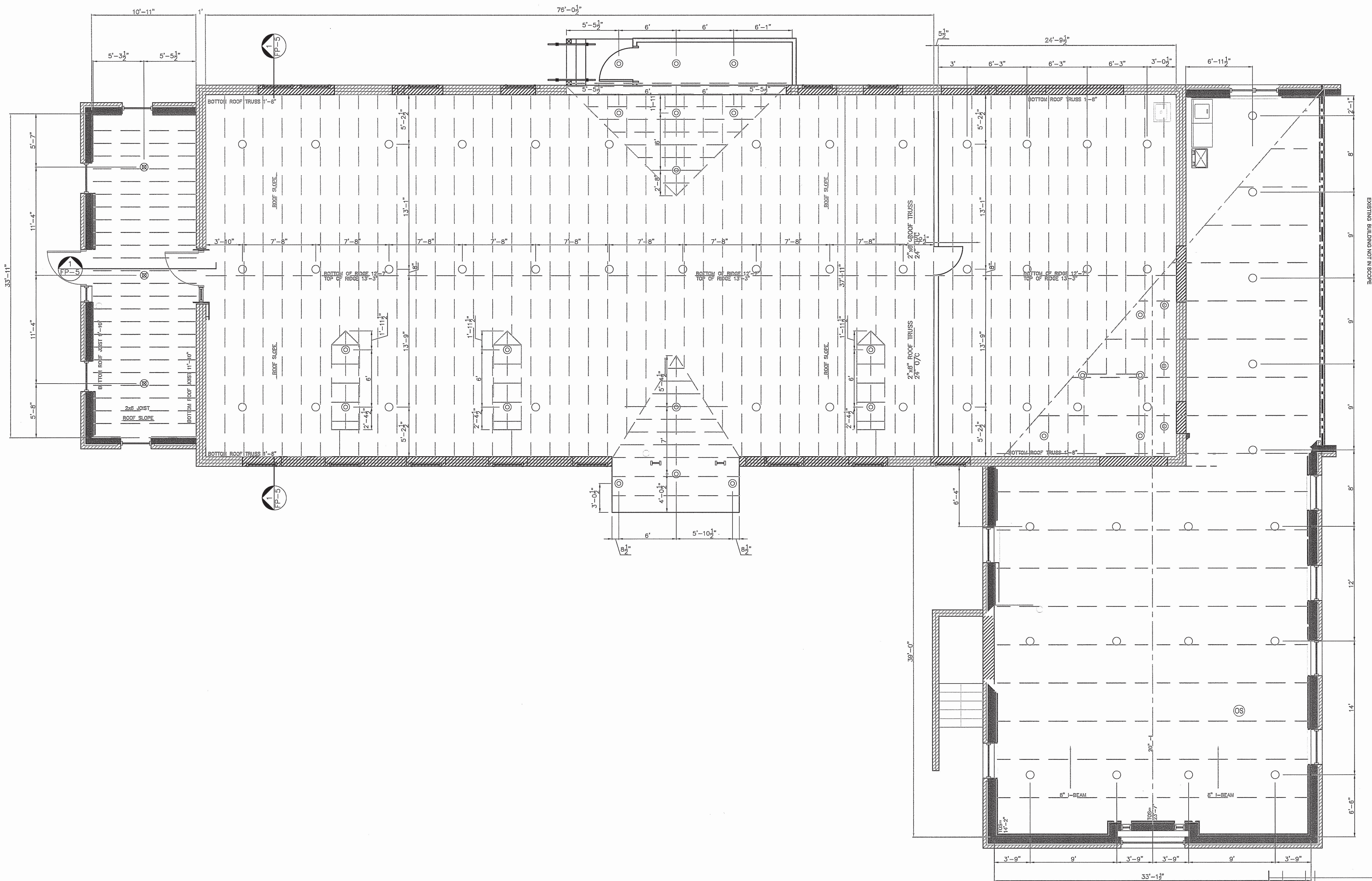
SYSTEM TYPE	
WET	☒ DELUGE
DRY	☐ PREACTION
APPROVALS	
☐ ISO	OUT IN
☐ FR1	OUT IN
☐ FM	OUT IN
☐	OUT IN

ABBREVIATIONS	
BOB	Bottom of Beam
BOD	Bottom of Deck
BOF	Bottom of Floor
DO	Ditto
HV	Hose Valve
N & C	Nipple and Cap
NTS	Not to Scale
OCB	Open Bar Solid
PRV	Pressure Red. Valve
RM	Roof Manifold
SP	Standpipe
TOS	Top of Slab
TOT	Top of Tank
UNO	Unless Noted Otherwise

SYMBOLS	
⊕	ELECTRIC BELL
⊖	WATER MOTOR GONG (W.M.G.)
⊙	FIRE DEPT. CONN. (STANDARD)
⊗	FIRE DEPT. CONN. (FLUSH)
⊕	ROSE VALVE
⊖	KEY GATE SECTIONAL VALVE
⊙	WATER CHECK VALVE
⊗	WATER CHECK VALVE WITH ROADWAY BOX
⊕	FIRE HYDRANT (3 WAY)
⊖	THRUST BLOCK
⊙	24x4 WAY SEISMIC BRACING
⊗	ELEVATION CHANGE IN PIPE (NOT THROUGH FLOOR)
⊕	UNION
⊖	GROOVED COUPLING (GC)
⊙	SCREWED CAP
⊗	GROOVED CAP
⊕	SCREWED PLUG
⊖	FLANGED CONNECTION

CONTRACT RESPONSIBILITIES	
ITEM	C.F.P. / OTHERS
STREET WATER CONNECTION	BY OTHERS
UNDERGROUND WATER MAINS	BY OTHERS
EXCAVATIONS	BY OTHERS
BACKFILL	BY OTHERS
WIRING	BY OTHERS
PAINTING	BY OTHERS

IMPORTANT
In locations that are subject to freezing conditions, it is the owner's responsibility to provide heat throughout areas protected by wet pipe sprinkler systems and in enclosures for dry pipe, deluge or other types of valves controlling water supplies to sprinkler systems.
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EXISTING BUILDING NOT IN SCOPE

NO. DATE BY REVISIONS - SEE FLAGGED AREA ON PLAN

CONTRACT NAME: **GOOD HOPE HOSPITAL**
BEHAVIORAL URGENT CARE
 410 DENIM DRIVE
 ERWIN, NC

CONTRACT WITH: **STE. GENERAL CONTRACTORS**
 DESCRIPTION: **UPRIGHT DIM**

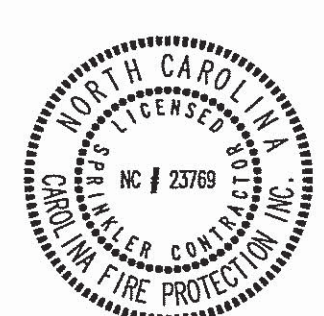
SYSTEM DESIGN DATA
 CLASSIFICATION: -
 MATERIALS: -
 AREA OF APPLICATION: -
 TOTAL SYSTEM: -
 INSULATION: -
 REVISIONS: -

CHECKED BY: **J. STRICKLAND**
 DATE: **9/11/25**
 SCALE: **1/4"=1'-0"**
 CONTRACT NO.: **256031**
 DRAWN BY: **WMF**
 DRAWING NO.: **FP 4 of 5**



4055 HODGES CHAPEL ROAD
 DUNN, N.C. 28334
 Phone (910) 892-1700
 Fax (910) 892-7322

SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	SIZE	MODEL	NAME	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
○	1/2"	QR	VICTUALIC	V2704	BRASS	UPRIGHT	200°	5.6	57
⊙	1/2"	QR	VICTUALIC	V2704	BRASS	UPRIGHT ON SPRIG UP	200°	5.6	25
⊗	1/2"	QR	VICTUALIC	V5608	BRASS	CONCEALED SPACE UPRIGHT ON SPRIG UP	200°	5.6	4
⊕	1/2"	QR	VICTUALIC	V2708	WHITE	RECESSED PENDENT	155°	5.6	68
⊖	1/2"	QR	VICTUALIC	V3614	WHITE	DRY PENDENT	155°	5.6	2
TOTAL SPRINKLERS SHOWN ON THIS SHEET									86
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									156



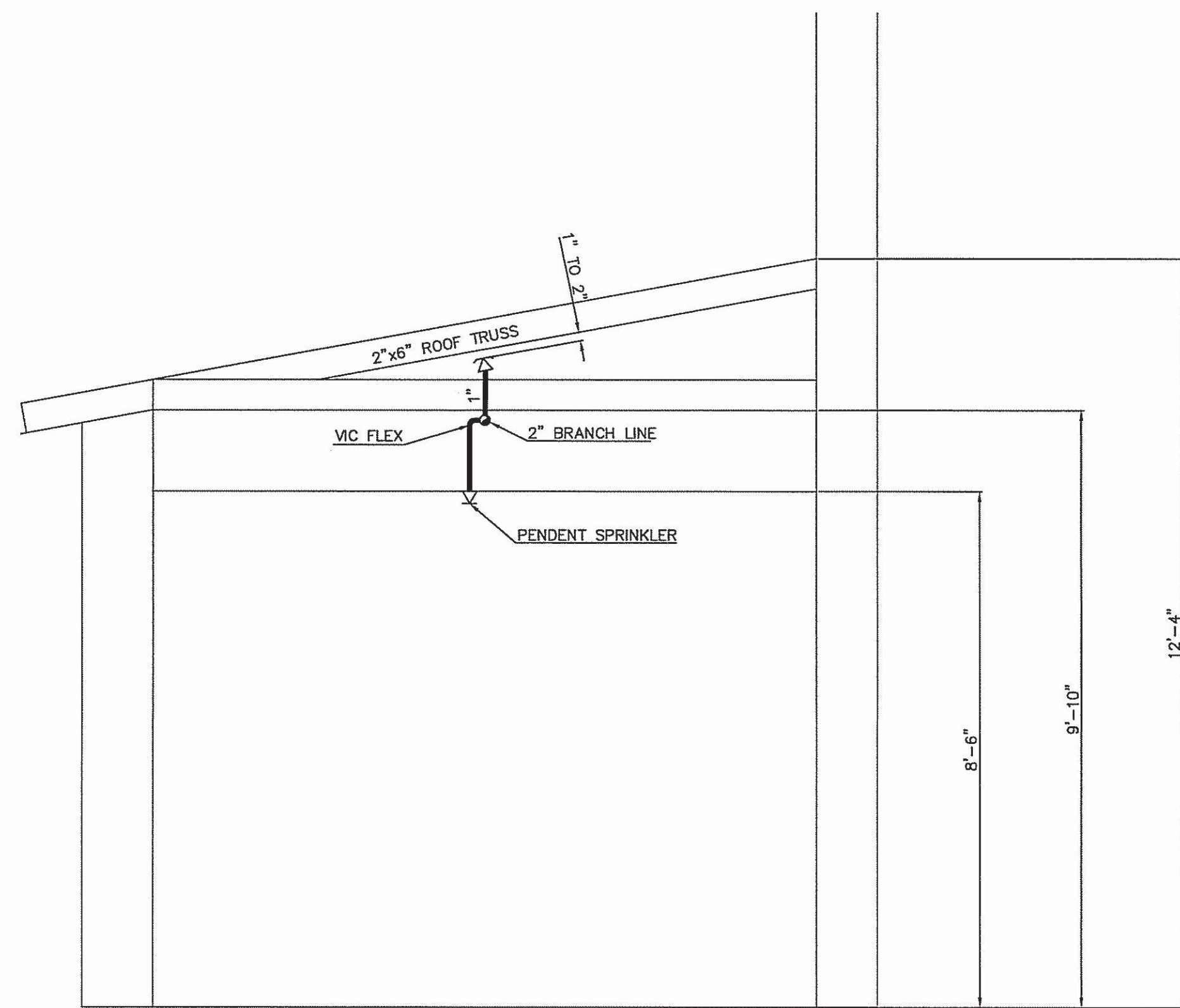
SYSTEM TYPE
 WET ☒ DELUGE ☐
 DRY ☐ PREACTION ☐
 APPROVALS
☐ ISO OUT IN
☐ IFRI OUT IN
☐ FM OUT IN
☐ OUT IN

ABBREVIATIONS
 BOB Bottom of Beam
 BOD Bottom of Deck
 BOP Bottom of Pipe
 DO Duct
 HV Hose Valve
 N & C Nipple and Cap
 N/C Not in Contact
 NTS Not to Scale
 OBU Open Bar Julet
 PRV Pressure Red. Valve
 RM Roof Manifold
 SP Standpipe
 TOS Top of Steel
 TOS Top of Pipe
 TOS Top of Slab
 UNO Unless Noted Otherwise

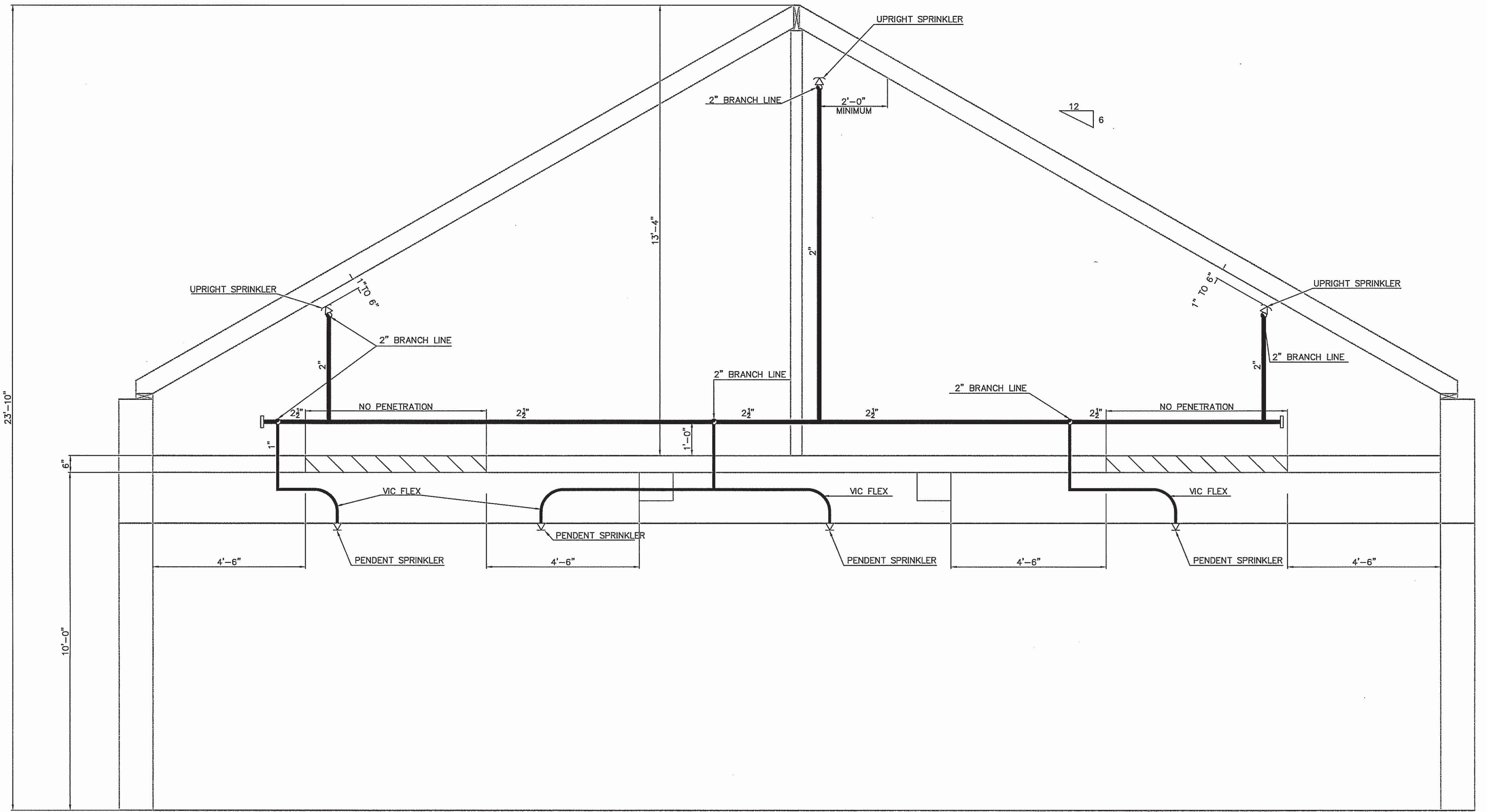
SYMBOLS
 GATE VALVE (SEE NOTES)
 FIRE HOSE ASSEMBLY
 FLOW SWITCH (FS)
 MONITOR SWITCH
 BUTTERFLY VALVE
 ALARM VALVE (ALV)
 DRY PIPE VALVE
 UNION
 GROOVED COUPLING (GC)
 SCREWED CAP
 GROOVED CAP
 SCREWED PLUG
 FLANGED CONNECTION
 CEILING HT. ABOVE REF.
 CIL OF PIPE BELOW BOD
 CIL OF PIPE ABOVE REF.
 HYDRAULIC REF. POINT
 LINE DESIGNATION
 MAIN DESIGNATION
 HANGER
 UNION
 GROOVED COUPLING (GC)
 SCREWED CAP
 GROOVED CAP
 SCREWED PLUG
 FLANGED CONNECTION
 GATE VALVE (SEE NOTES)
 FIRE HOSE ASSEMBLY
 FLOW SWITCH (FS)
 MONITOR SWITCH
 BUTTERFLY VALVE
 ALARM VALVE (ALV)
 DRY PIPE VALVE
 UNION
 GROOVED COUPLING (GC)
 SCREWED CAP
 GROOVED CAP
 SCREWED PLUG
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 CEILING HT. ABOVE REF.
 CIL OF PIPE BELOW BOD
 CIL OF PIPE ABOVE REF.
 HYDRAULIC REF. POINT
 LINE DESIGNATION
 MAIN DESIGNATION
 HANGER
 UNION
 GROOVED COUPLING (GC)
 SCREWED CAP
 GROOVED CAP
 SCREWED PLUG
 FLANGED CONNECTION

CONTRACT RESPONSIBILITIES
 ITEM C.F.P. / OTHERS
 STREET WATER CONNECTION BY OTHERS
 UNDERGROUND WATER MAINS BY OTHERS
 EXCAVATIONS BY OTHERS
 BACKFILL BY OTHERS
 WIRING BY OTHERS
 PAINTING BY OTHERS

IMPORTANT
 In locations that are subject to freezing conditions, it is the owner's responsibility to provide heat throughout areas protected by wet pipe sprinkler systems and in enclosures for dry pipe, deluge or other types of valves controlling water supplies to sprinkler systems.
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1 CROSS SECTION
1/2"=1'-0"



2 CROSS SECTION
1/2"=1'-0"

NO.	DATE	BY	REVISIONS - SEE FLAGGED AREA ON PLAN

CONTRACT NAME: GOOD HOPE HOSPITAL BEHAVIORAL URGENT CARE 410 DENIM DRIVE ERTW, NC	CHECKED BY: J.STRICKLAND
CONTRACT WITH: STE. GENERAL CONTRACTORS	DATE: 9/11/25
DESCRIPTION: SECTION	SCALE: 1/4"=1'-0"
SYSTEM DESIGN DATA	CONTRACT NO: 25G031
DRAWN BY: WMF	DRAWING NO. FP 5 of 5



SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	SIZE	MODEL	MAKE	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
○	1/2"	QR	VICTUALIC	V2704	BRASS	UPRIGHT	200°	5.6	57
⊙	1/2"	QR	VICTUALIC	V2704	BRASS	UPRIGHT ON SPRIG UP	200°	5.6	25
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⊕	1/2"	QR	VICTUALIC	V2708	WHITE	RECESSED PENDENT	155°	5.6	68
⊖	1/2"	QR	VICTUALIC	V3614	WHITE	DRY PENDENT	155°	5.6	2
TOTAL SPRINKLERS SHOWN ON THIS SHEET							0		
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT							156		



ITEM	C.F.P. / OTHERS
STREET WATER CONNECTION	BY OTHERS
UNDERGROUND WATER MAINS	BY OTHERS
EXCAVATIONS	BY OTHERS
BACKFILL	BY OTHERS
WIRING	BY OTHERS
PAINTING	BY OTHERS

SYMBOLS	ABBREVIATIONS
CEILING HT. ABOVE REF.	BOB Bottom of Beam
CIL OF PIPE BELOW BOD	BOP Bottom of Pipe
CIL OF PIPE ABOVE REF.	DO Ditto
HYDRAULIC REF. POINT	NV Nipple Valve
LINE DESIGNATION	N & C Nipple and Cap
MAIN DESIGNATION	NTS Not to Scale
ALARM VALVE (ALV)	CEU Open Ear-Loose
POST INDICATOR VALVE (PIV)	PRV Pressure Red. Valve
DRY PIPE VALVE	RM Roof Manifold
WATER CHECK VALVE	SP Standpipes
SWING CHECK VALVE	TOP Top of Pipe
SYSTEM RISER	TOS Top of Steel
INSPECTOR'S TEST	UNO Unless Noted Otherwise
GLOBE VALVE	
ANGLE VALVE	

SYSTEM TYPE	APPROVALS
WET ☐ DELUGE ☐	☐ ISO OUT IN
DRY ☐ PREACTION ☐	☐ IFR OUT IN
	☐ FM OUT IN
	☐ OUT IN

IMPORTANT
In locations that are subject to freezing conditions, it is the owner's responsibility to provide heat throughout areas protected by wet pipe sprinkler systems and in enclosures for dry pipe, deluge or other types of valves controlling water supplies to sprinkler systems.

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