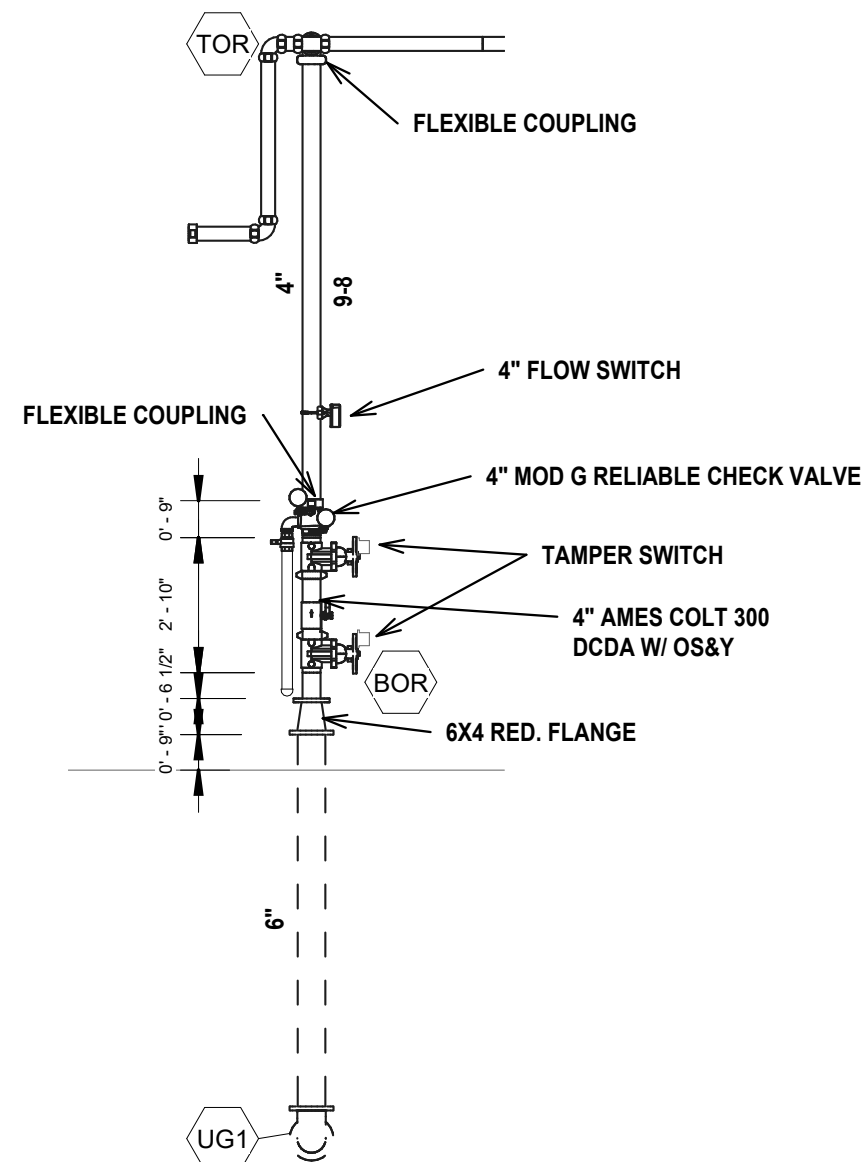


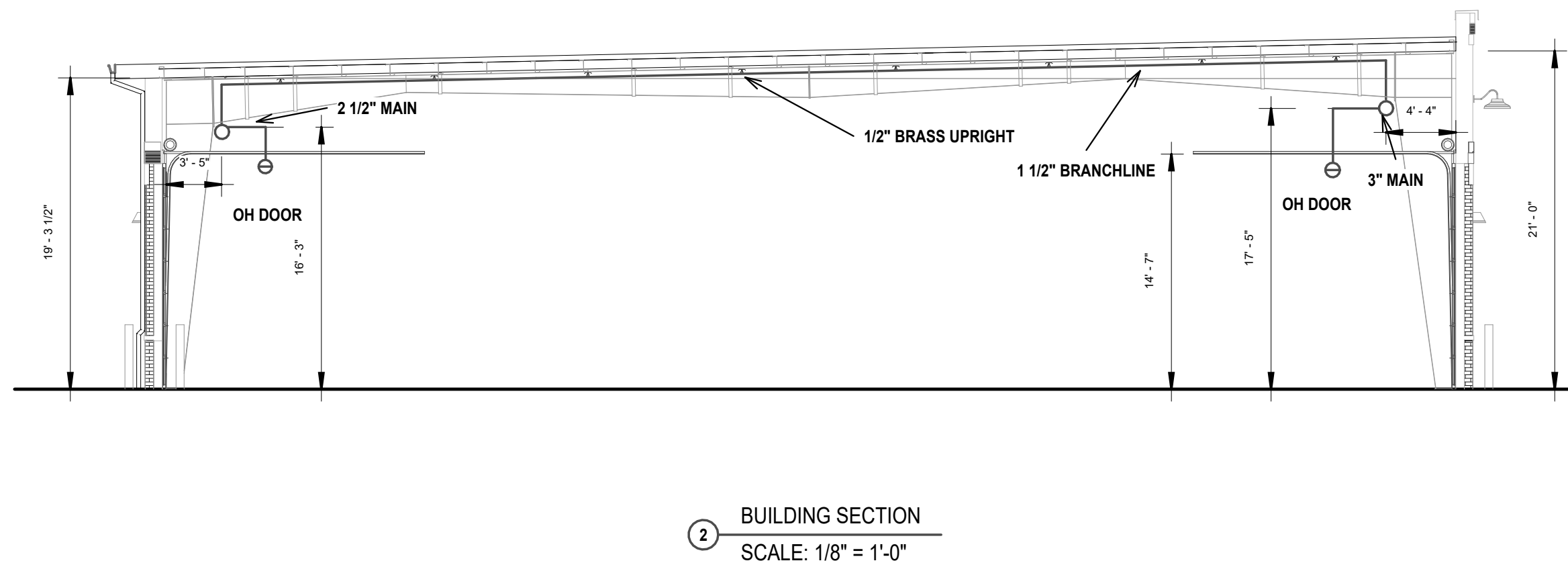
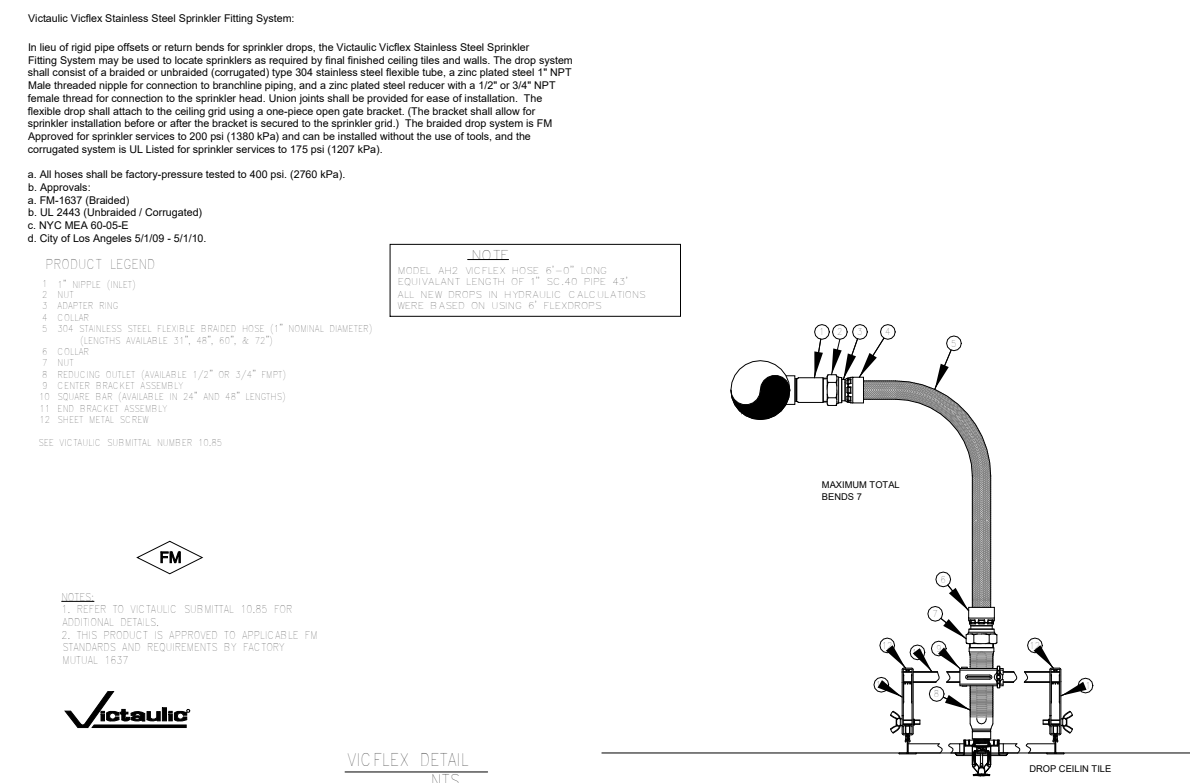
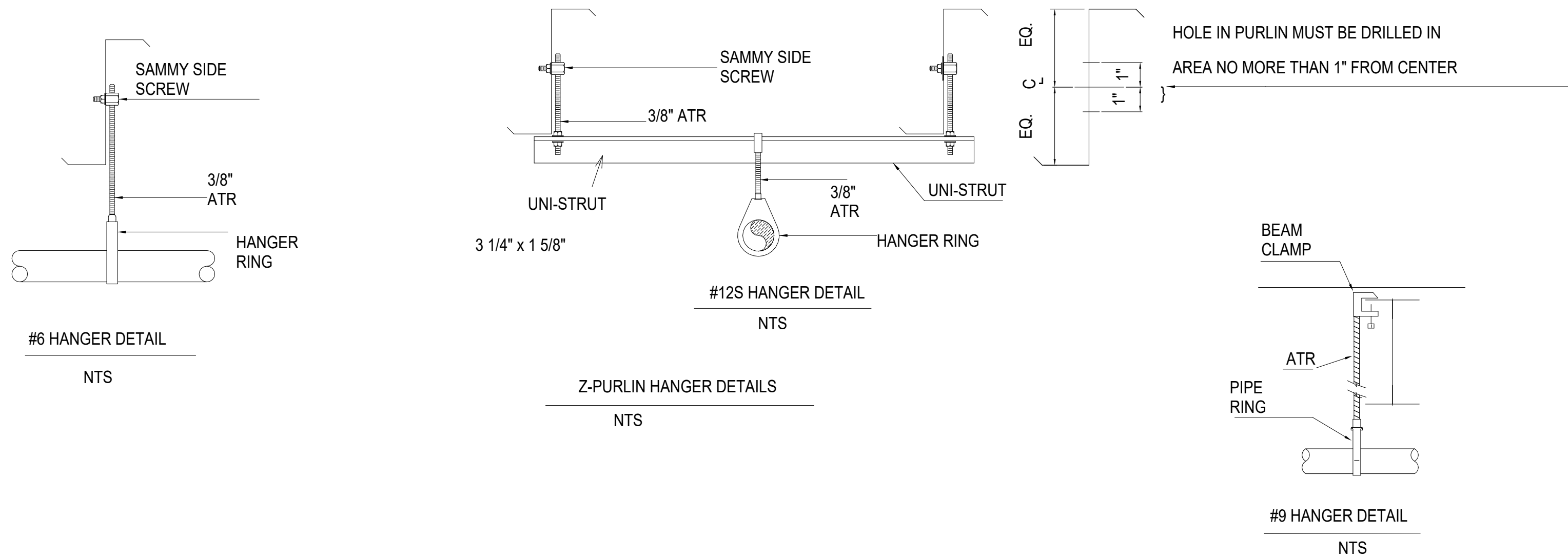
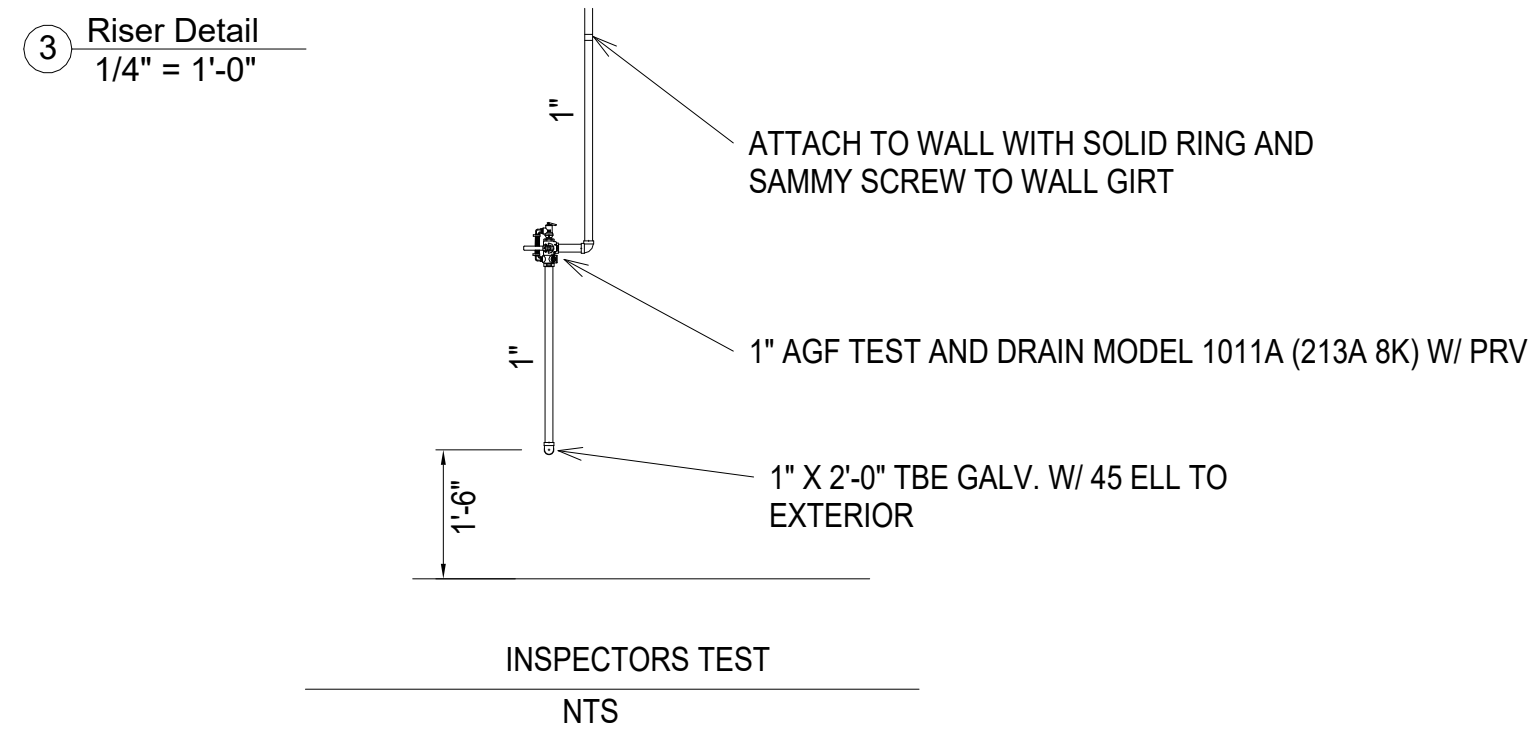
Project: Lillington FD		System: Wet	
Project Street Address: 2873 NC 210 North		Sys. Sq. Ft.: 8,838	
Suite:	Floor#:	Ceiling Height: Varies	
Designed By: Carolina Fire Protection		Phone: (910)-892-1700	
Occupancy: Manufacturing	Hazard: Ord. Grp. 2 & Light		
Total Bldg. Area:		Total Bldg. Hgt.:	

Design Method	Hydraulic Calculation	Hydraulic Calculation			
Design Area #	1	2			
Location	TRUCK BAY	OFFICE			
Type of System	Wet System	Wet System			
Hazard Class	Ord. Grp. 2	LIGHT			
Criteria From	NFPA 13	NFPA 13			
Design Area	1565	1152			
Sprinkler Spacing	130 sqft	225 sqft			
Density	.20	.10			
K-factor	5.6	5.6			
Hose Allowance	250	100			
# Design Sprinklers	15	11			
Special App. Spk.	0	0			
Requirement @	BOR	BOR			
G.P.M. Req'd	643.476	354.074			
P.S.I. Req'd	60.364	54.385			
Safety Factor @	TEST	TEST			
Safety Factor (psi)	41.134	48.118			
System Sq Ft	8,838	8,838			
Dry Sys. Vol. (gal)	n/a	n/a			

Tested by	CFP & HARNETT COUNTY	Date/Time	02/25/25 11AM	Pressure Hydrant	
Hydrant Elevation		Flow Hydrant # 1		Flow Hydrant #2	
Static (PSI)	103	Residual (PSI)	94	Flow (gpm)	1694 GPM



- PIPE TO BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH NFPA 13
- ALL PIPE 1 1/2" AND LARGER TO BE BLACK SCH. 10 PIPE ROLLED GROOVED WITH GROOVED FITTINGS U.N.O.
- 1" PIPE TO BE BLACK SCH. 40 WITH DUCTILE IRON FITTINGS
- INSTALL (1) NEW WET PIPE TYPE SPRINKLER SYSTEM THROUGHOUT BUILDING
- SYSTEM DESIGNED TO PROVIDE A DENSITY OF .20 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,565 SQ. FT. AREA +250 GPM FOR HOSE STREAM DEMANDS IN TRUCK APPARATUS BAYS
- SYSTEM DESIGNED TO PROVIDE A DENSITY OF .10 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,152 SQ. FT. AREA +100 GPM FOR HOSE STREAM DEMANDS IN OFFICE
- BUILDING TO BE HEATED AND MAINTAINED A MINIMUM OF 40 DEGREES FAHRENHEIT BY OWNER
- ALL FIRE PROTECTION PIPING PENETRATIONS THRU RATED WALLS SHALL BE FIRE PROOFED



NO.	DATE	BY	REVISIONS - SEE FLAGGED AREA ON PLAN

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

	CEILING HT. ABOVE REF.
*13	C/L OF PIPE BELOW BOD
12-4	C/L OF PIPE ABOVE REF.
	HYDRAULIC REF. POINT
	LINE DESIGNATION
A1	MAIN DESIGNATION
	HANGER
	UNION
	GROOVED COUPLING (GC)
	SCREWED CAP
	GROOVED CAP
	SCREWED PLUG
	FLANGE CONNECTION

SYMBOLS

	GATE VALVE (SEE NOTES)
	FIRE HOSE ASSEMBLY
	FLOW SWITCH (FS)
	MONITOR SWITCH
	BUTTERFLY VALVE
	ALARM VALVE (ALV)
	DRY PIPE VALVE
	WAFER CHECK VALVE
	SWING CHECK VALVE
	SYSTEM RISER
	INSPECTOR'S TEST
	GLOBE VALVE
	ANGLE VALVE

	ELECTRIC BELL
	WATER MOTOR GONG (WMO)
	FIRE DEPT. CONN. (STANDARD)
	FIRE DEPT. CONN. (FLUSH)
	FIRE DEPT. CONN. (SIDEWALK)
	POST INDICATOR VALVE (PIV)
	KEY GATE SECTIONAL VALVE
	WITH ROADWAY BOX
	FIRE HYDRANT (3 WAY)
	THRUST BLOCK
	2 & 4 WAY SEISMIC BRACING
	ELEVATION CHANGE IN PIPE
	(NOT THROUGH FLOOR)

ABBREVIATIONS

BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOP	BOTTOM OF PIPE
DO	DITTO
HV	HOSE VALVE
N & C	NIPPLE AND CAP
NIC	NOTE IN CONTRACT
NTS	NOT TO SCALE
OBJ	OPEN BAR JOIST
PRV	PRESSURE RED. VALVE
RM	ROOM MANIFOLD
SP	STANDPIPE
TOB	TOP OF BEAM
TOP	TOP OF PIPE
TOS	TOP OF STEEL
UNO	UNLESS NOTED OTHERWISE

SYSTEM TYPE		
WET - ☐	DELUGE - ☐	
DRY - ☐	PREACTION - ☐	
APPROVALS		
☐ ISO	OUT _____	IN _____
☐ IRI	OUT _____	IN _____
☐ FM	OUT _____	IN _____
☐	OUT _____	IN _____



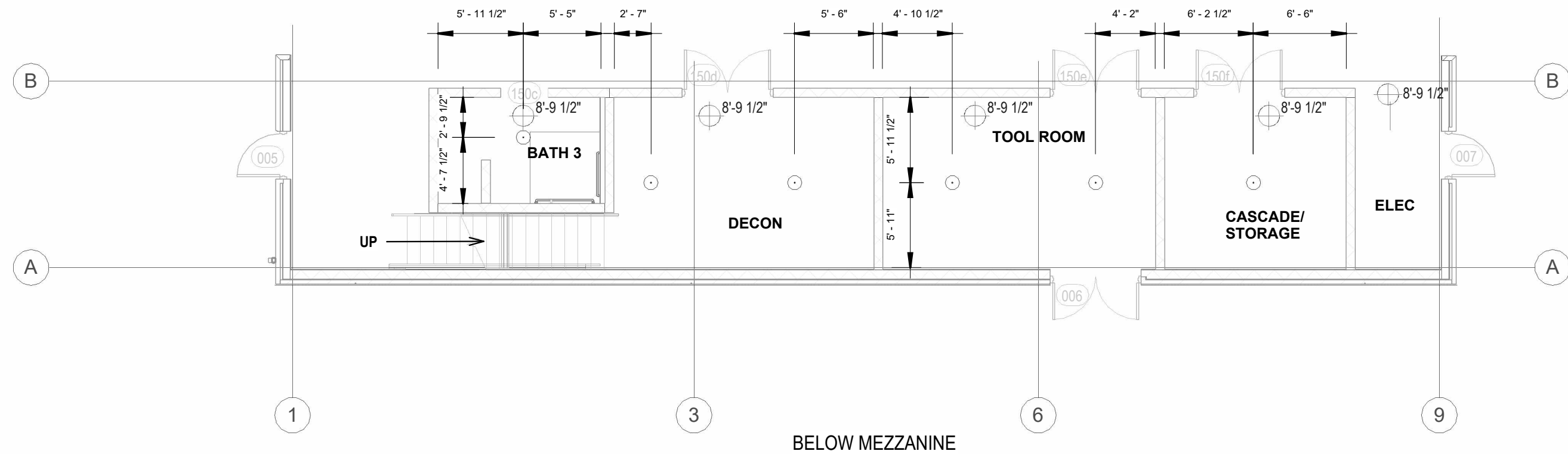
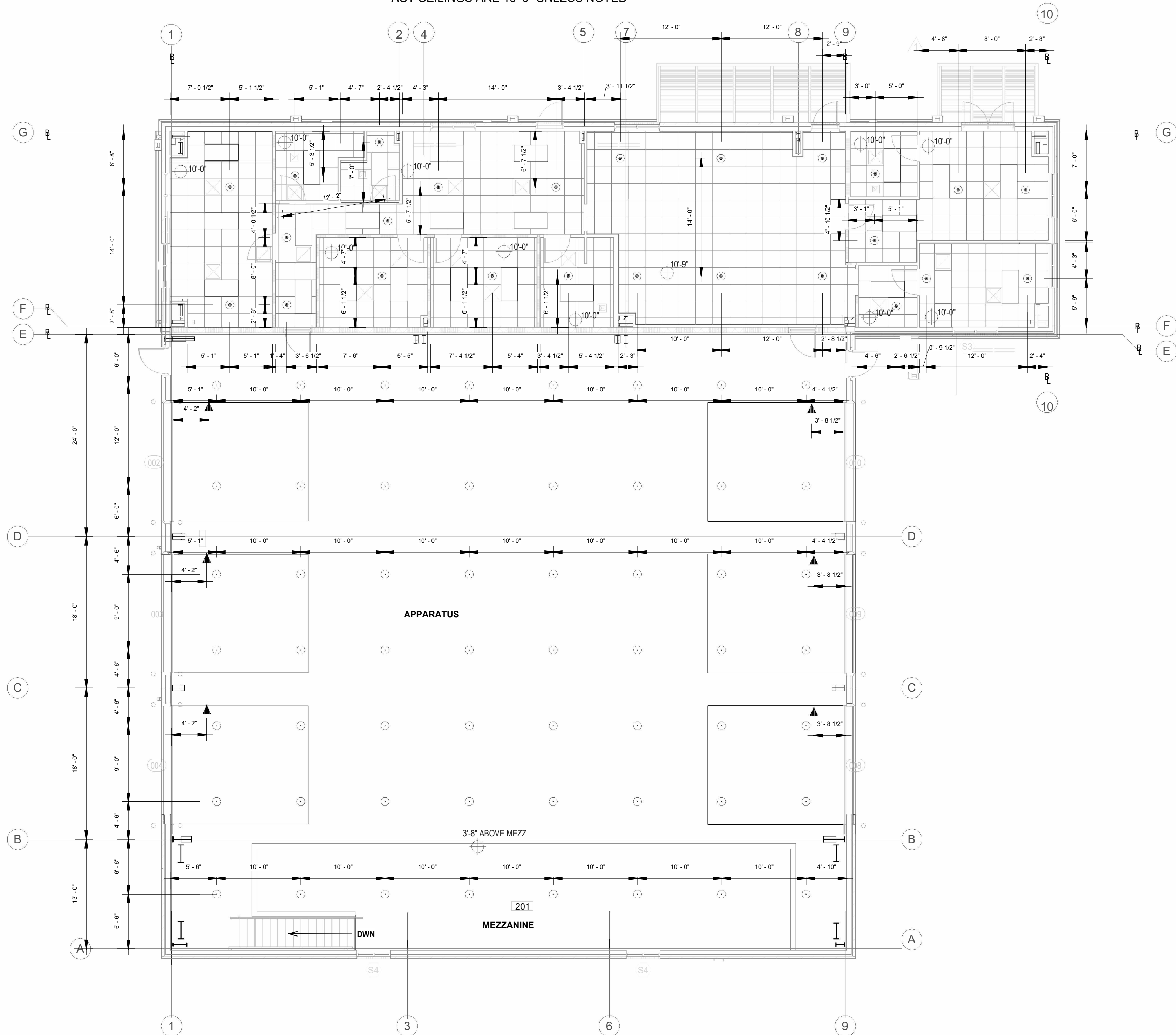
SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	SIZE	MODEL	MAKE	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
	1/2	QR	VICTAULIC	V2708	WHITE	RECESSED PENDENT	155°	5.6K	50
	1/2	QR	VICTAULIC	V2704	BRASS	UPRIGHT	155°	5.6K	62
	1/2	QR	VICTAULIC	V2710	CHROME	HORIZONTAL SIDEWALL	155°	5.6K	6
TOTAL SPRINKLERS SHOWN ON THIS SHEET									0
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									118



CONTRACT NAME: LILLINGTON FIRE DEPT.			
2873 NC 210 NORTH LILLINGTON, NC			
CONTRACT WITH: BOBBITT			
DESCRIPTION: INFO			
SYSTEM DESIGN DATA			
HAZARD CLASSIFICATION		SYSTEM AREA:	SQ. FT.
HYDRAULIC DESIGN DATA	DENSITY:	GPM/SQ. FT.	COVERAGE: SQ. FT./HEAD
AREA OF APPLICATION:		SQ. FT.	HOSE ALLOWANCES: GPM
TOTAL SYSTEM REQUIREMENTS:		GPM AT	PSI AT
WATER SUPPLY	STATIC PRESSURE	PSI	RESIDUAL PRESSURE
		PSI W/	GPM FLOWING
TEST TAKEN AT:		BY:	DATE:

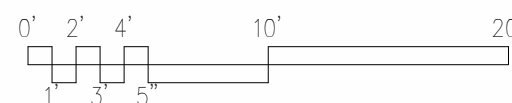
CHECKED BY: M.FORD
DATE: 04/08/2025
SCALE: AS SHOWN
CONTRACT NO. 25C999
DRAWN BY: A.LEE
DRAWING NO. FP 1 OF 3

ACT CEILINGS ARE 10'-0" UNLESS NOTED



CEILING PLAN

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



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

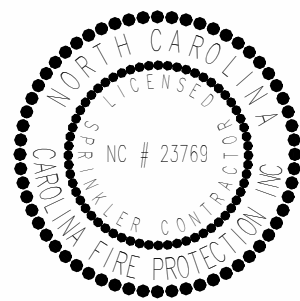
CEILING HT. ABOVE REF.
C/L OF PIPE BELOW BOD
C/L OF PIPE ABOVE REF.
HYDRAULIC REF. POINT
LINE DESIGNATION
MAIN DESIGNATION
HANGER
UNION
GROOVED COUPLING (GC)
SCREWED CAP
GROOVED CAP
SCREWED PLUG
FLANGE CONNECTION

SYMBOLS	
	GATE VALVE (SEE NOTES)
	FIRE HOSE ASSEMBLY
	FLOW SWITCH (FS)
	MONITOR SWITCH
	BUTTERFLY VALVE
	ALARM VALVE (ALV)
	DRY PIPE VALVE
	WAFER CHECK VALVE
	SWING CHECK VALVE
	SYSTEM RISER
	INSPECTOR'S TEST
	GLOBE VALVE
	ANGLE VALVE

	ELECTRIC BELL
	WATER MOTOR GONG (WMG)
	FIRE DEPT. CONN. (STANDARD)
	FIRE DEPT. CONN. (FLUSH)
	FIRE DEPT. CONN. (SIDEWALK)
	POST INDICATOR VALVE (PIV)
	KEY GATE SECTIONAL VALVE WITH ROADWAY BOX
	FIRE HYDRANT (3 WAY) THRUST BLOCK
	2 & 4 WAY SEISMIC BRACING
	ELEVATION CHANGE IN PIPE (NOT THROUGH FLOOR)

ABBREVIATIONS	
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOP	BOTTOM OF PIPE
DO	DITTO
HV	HOSE VALVE
N & C	NIPPLE AND CAP
NIC	NOTE IN CONTRACT
NTS	NOT TO SCALE
OBJ	OPEN BAR JOIST
PRV	PRESSURE RED. VALVE
RM	ROOF MANIFOLD
SP	STANDPIPE
TOB	TOP OF BEAM
TOP	TOP OF PIPE
TOS	TOP OF STEEL
UNO	UNLESS NOTED OTHERWISE

SYSTEM TYPE	
WET - ☐ DELUGE - ☐	
DRY - ☐ PREACTION - ☐	
☐ ISO	OUT IN
☐ IRI	OUT IN
☐ FM	OUT IN
☐	OUT IN

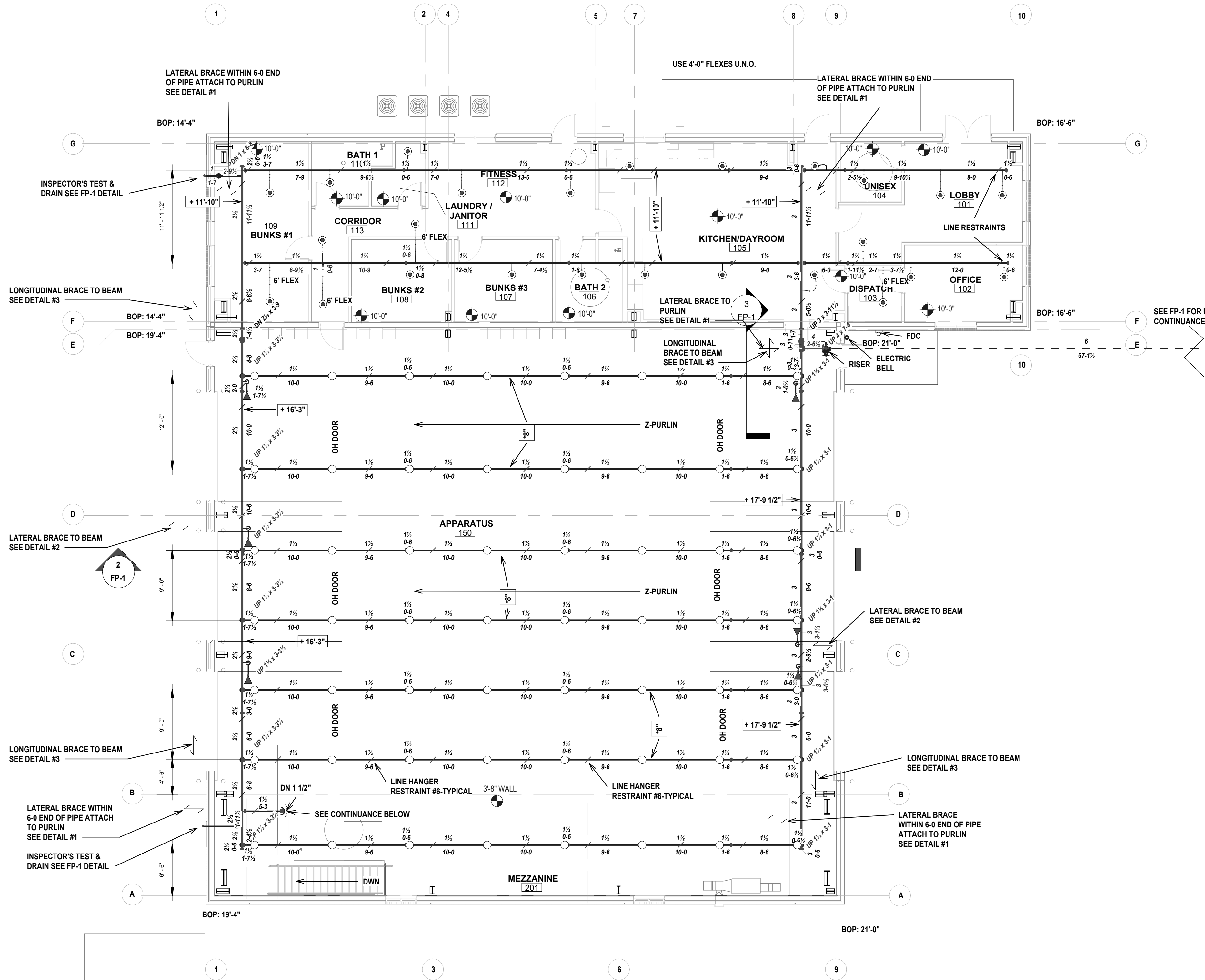


SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	SIZE	MODEL	MAKE	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
	1/2	QR	VICTAULIC	V2708	WHITE	RECESSED PENDENT	155°	5.6K	50
	1/2	QR	VICTAULIC	V2704	BRASS	UPRIGHT	155°	5.6K	62
	1/2	QR	VICTAULIC	V2710	CHROME	HORIZONTAL SIDEWALL	155°	5.6K	6
TOTAL SPRINKLERS SHOWN ON THIS SHEET									118
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									118

**CAROLINA
FIRE
PROTECTION**

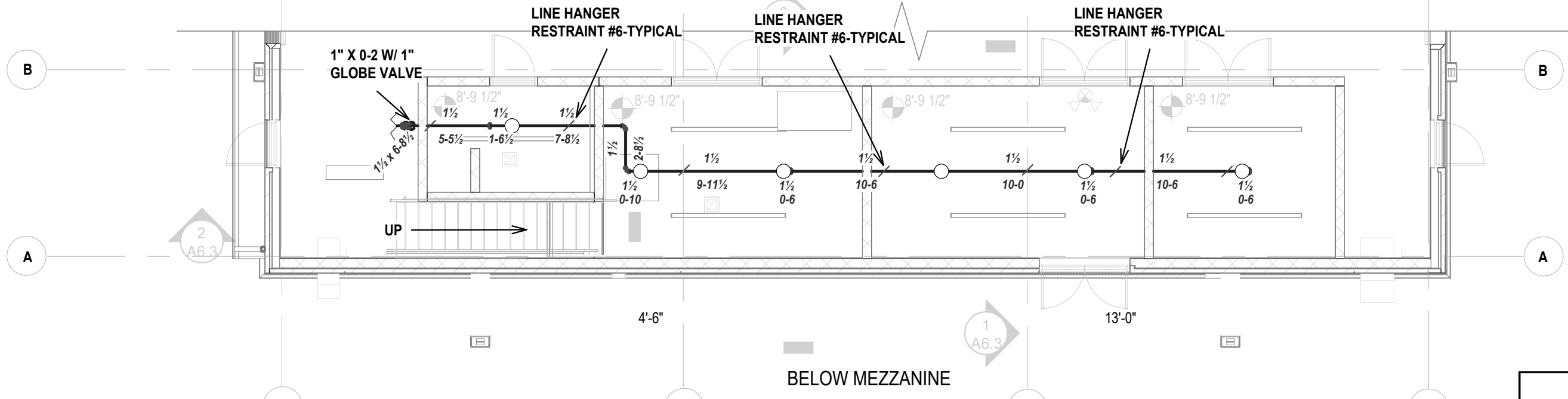
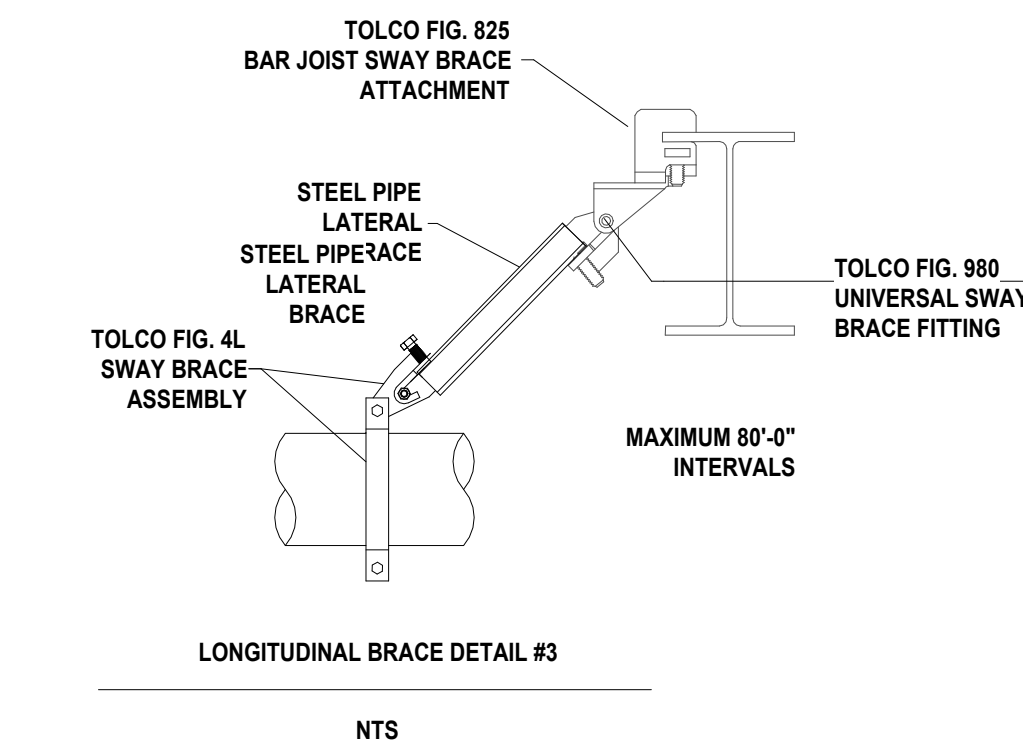
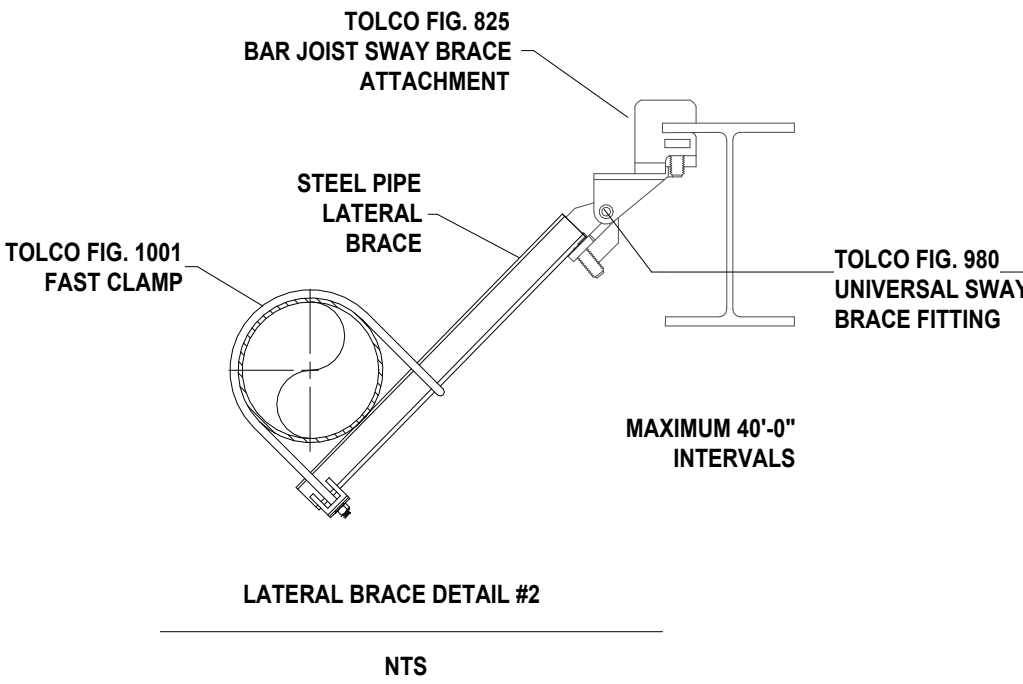
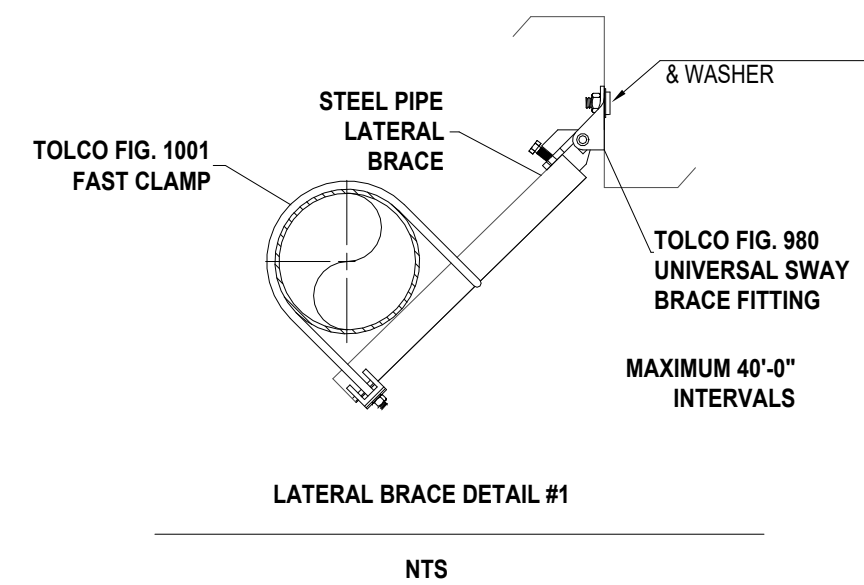
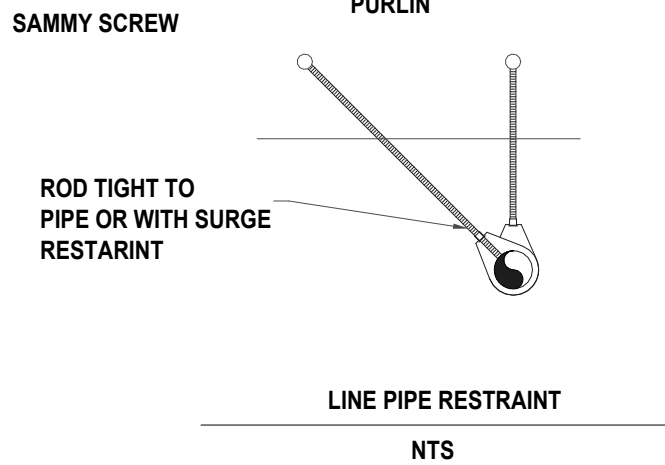
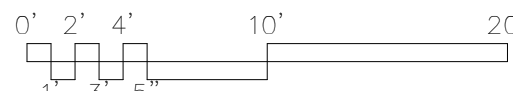
4055 HODGES CHAPEL ROAD
DUNN, N.C. 28334
PHONE (910) 892-1700
FAX (910) 892-7322

NO.	DATE	BY	REVISIONS - SEE FLAGGED AREA ON PLAN
CONTRACT NAME: LILLINGTON FIRE DEPT.			
2873 NC 210 NORTH LILLINGTON, NC			
CONTRACT WITH: BOBBIT			
DESCRIPTION: DIMENSIONS			
SYSTEM DESIGN DATA			
HAZARD CLASSIFICATION		SYSTEM AREA: SQ. FT.	
HYDRAULIC DESIGN DATA		DENSITY: GPM/SQ. FT.	COVERAGE: SQ. FT./HEAD
AREA OF APPLICATION:		SQ. FT.	HOSE ALLOWANCES: GPM
TOTAL SYSTEM REQUIREMENTS:		GPM AT PSI AT	
WATER SUPPLY		STATIC PRESSURE PSI	RESIDUAL PRESSURE PSI W/ GPM FLOWING
TEST TAKEN AT:		BY:	DATE:
CHECKED BY: M.FORD			DATE: 04/08/2025
SCALE: AS SHOWN			CONTRACT NO. 25C999
DRAWN BY: A.LEE			DRAWING NO. FP 2 OF 3



PIPING PLAN

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



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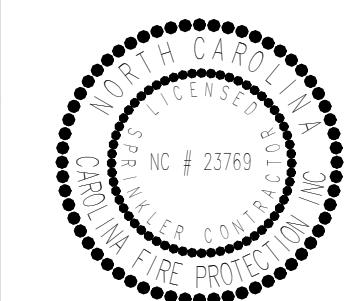
CONTRACT RESPONSIBILITIES	
ITEM	C.F.P. / OTHERS
STREET WATER CONNECTION	N/A
UNDERGROUND WATER MAINS	N/A
EXCAVATIONS	N/A
BACKFILL	N/A
WIRING	N/A
PAINTING	N/A

SYMBOLS	
	GATE VALVE (SEE NOTES)
	FIRE HOSE ASSEMBLY
	FLOW SWITCH (FS)
	MONITOR SWITCH
	BUTTERFLY VALVE
	ALARM VALVE (ALV)
	HANGER
	UNION
	GROOVED COUPLING (GC)
	GROOVED CAP
	GROOVED PLUG
	FLANGE CONNECTION

SYMBOLS	
	ELECTRIC BELL
	WATER MOTOR GONG (WMO)
	FIRE DEPT. CONN. (STANDARD)
	FIRE DEPT. CONN. (FLUSH)
	FIRE DEPT. CONN. (SIDE VALVE)
	POST INDICATOR VALVE (PIV)
	DRY PIPE VALVE
	WATER CHECK VALVE
	SWING CHECK VALVE
	SYSTEM RISER
	INSPECTOR'S TEST
	GLOBE VALVE
	ANGLE VALVE

ABBREVIATIONS	
BOB	BOTTOM OF BEAM
BOB	BOTTOM OF DECK
BOP	BOTTOM OF PIPE
DO	DITTO
HV	HOSE VALVE
N & C	NIPPLE AND CAP
NIC	NOTE IN CONTRACT
NTS	NOT TO SCALE
OSJ	OPEN BAR JOIST
PRV	PRESSURE RED. VALVE
RM	ROOF MANIFOLD
SP	STANDPIPE
TDB	TOP OF BEAM
TOS	TOP OF PIPE
TOS	TOP OF STEEL
UNO	UNLESS NOTED OTHERWISE

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



SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	SIZE	MODEL	MAKE	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
	1/2	QR	VICTAULIC	V2708	WHITE	RECESSED PENDENT	155°	5.6K	50
	1/2	QR	VICTAULIC	V2704	BRASS	UPRIGHT	155°	5.6K	62
	1/2	QR	VICTAULIC	V2710	CHROME	HORIZONTAL SIDEWALL	155°	5.6K	6
TOTAL SPRINKLERS SHOWN ON THIS SHEET									118
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									118

CAROLINA FIRE PROTECTION

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

CONTRACT NAME:		LILLINGTON FIRE DEPT. 2873 NC 210 NORTH LILLINGTON, NC	CHECKED BY: M.FORD
CONTRACT WITH:		BOBBITT	DATE: 04/08/2025
DESCRIPTION:		PIPING PLAN	SCALE: AS SHOWN
HAZARD CLASSIFICATION		SYSTEM AREA: SQ. FT.	CONTRACT NO. 25C999
HYDRAULIC DESIGN DATA		DENSITY: GPM/SQ. FT. COVERAGE: SQ. FT./HEAD	DRAWN BY: A.LEE
AREA OF APPLICATION:		SQ. FT. HOSE ALLOWANCES: GPM	DRAWING NO.
TOTAL SYSTEM REQUIREMENTS:		GPM AT PSI AT	FP 3 OF 3
WATER SUPPLY		STATIC PRESSURE PSI RESIDUAL PRESSURE PSI W/ GPM FLOWING	
TEST TAKEN AT:		BY: DATE:	