

- KEY NOTES**
- 1 TYPICAL SYSTEM RISER
SEE DETAIL ON SHEET FP-D2
 - 2 TYPICAL COMBINATION STANDPIPE
SEE DETAIL ON SHEET FP-D2
 - 3 TYPICAL STANDPIPE
SEE DETAIL ON SHEET FP-D2
 - 4 4" TYPICAL STANDPIPE & HOSE VALVE CABINET
SEE DETAIL ON SHEET FP-D2
 - 5 4" DOWN TO FLOOR BELOW
8" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 6 4" UP TO FLOOR ABOVE
8" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 7 2" DRAIN UP TO FLOOR ABOVE
4" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 8 2" DRAIN DOWN TO FLOOR BELOW
4" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 9 2" DRAIN TO SANITARY CONNECTION
 - 10 1" AUXILIARY DRAIN
NIPPLE, VALVE & PLUG
 - 11 1" AUXILIARY DRAIN
PIPE TO SANITARY DRAIN
 - 12 9'-0" MAX. IN SMALL ROOMS
SEE DESIGN NOTE #1 ON SHEET FP-0.1
 - 13 SPRINKLER OMITTED FROM BATHROOM
SEE DESIGN NOTE #2 ON SHEET FP-0.1
 - 14 SPRINKLERS OMITTED FROM OVERHANG
SEE DESIGN NOTE #3 ON SHEET FP-0.1
 - 15 SPRINKLERS OMITTED FROM VERTICAL SHAFT
SEE DESIGN NOTE #4 ON SHEET FP-0.1
 - 16 LAUNDRY OR GARBAGE CHUTE SPRINKLER
PRE-INSTALLED & CONNECTED BY AEGIS
 - 17 CPVC TO STEEL PIPE ADAPTER
THREADED OR GROOVED AS APPLICABLE

- PIPING NOTES**
- 1 BRANCHLINE PIPING TO BE INSTALLED 6" FROM
BOTTOM OF SLAB TO CENTER OF PIPE, TYPICAL.
 - 2 BULK MAINS TO BE INSTALLED 1'-0" FROM
BOTTOM OF DECK TO CENTER OF PIPE, TYPICAL.
 - 3 SYSTEM MAINS TO BE INSTALLED 1'-8" FROM
BOTTOM OF DECK TO CENTER OF PIPE, TYPICAL.
 - 4 ALL EXPOSED PIPING SHALL BE STEEL PIPE PER
GENERAL NOTE # 17 ON SHEET FP-0.1.

- CONCEALED SPACES**
- 1 ALL CONCEALED COMBUSTIBLE SPACES SHALL
BE ENTIRELY FILLED WITH NONCOMBUSTIBLE
INSULATION.
 - 2 SPRINKLERS SHALL BE OMITTED FROM
CONCEALED COMBUSTIBLE SPACES ENTIRELY
FILLED WITH NONCOMBUSTIBLE INSULATION
PER NFPA 13, 9.2.1.7.

AIR VENT NOTE

AS STATED IN NFPA 13 SECTION 16.7:
AT THE DISCRETION OF THE INSTALLER,
AUTOMATIC AIR VENTS ARE TO BE INSTALLED BY ONE
OF THE FOLLOWING METHODS

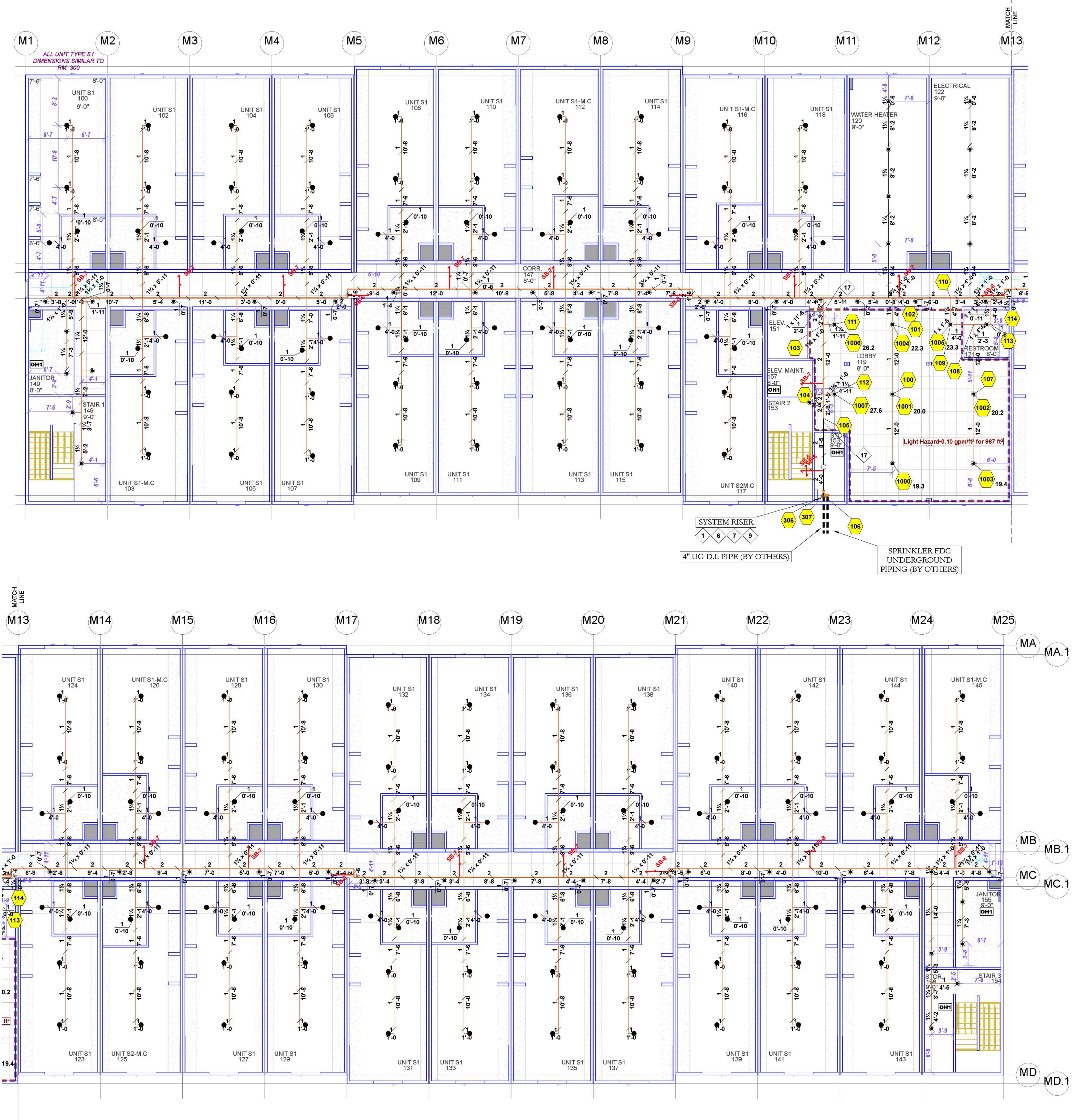
- (1) MANUAL VALVE, MIN 1/2"
- (2) AUTOMATIC AIR VENT
- (3) REMOTE INSPECTOR'S TEST VALVE
- (4) OTHER APPROVED MEANS

PIPE LEGEND

— BLACK STEEL PIPE
— CPVC PIPE

SPRINKLER LEGEND										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Note
●	Tyco	TY3531	RFII	50	5.6	Concealed Pendent	1/2	Quick	White	200 °F MAX SPACING 15'x15'
○	Tyco	TY3131	TY-FRB	7	5.6	Upright	1/2	Quick	Brass	200 °F MAX SPACING 15'x15'
●	Tyco	TY2236	LFII	172	4.9	Pendent	1/2	Fast	White	175 °F MAX SPACING 18'x18'
▽	Tyco	TY3331	TY-FRB	1	5.6	Horizontal Sidewall	1/2	Quick	Chrome	200 °F N/A
				Total = 230						

HYDRAULIC INFORMATION #1	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500 ft² (Actual 967 ft²)
QUICK RESPONSE REDUCTION	8'-0" Ceiling (40.0%) 900 ft²
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	8
K-FACTOR	5.6
TOTAL WATER REQUIRED	255.5
TOTAL PRESSURE REQUIRED	44.4
BASE OF RISER (gpm)	165.5
BASE OF RISER (psi)	38.8
SAFETY MARGIN (psi)	+35.3 (44.3%)



STAMP

PROJECT

ALPINE EXTENDED
100 Wintergreen Drive
Alpine
WY 83128

CUSTOMER

MOD. FACTORY

AUTOVOL
16379 STAR ROAD, NAMPA, ID
PHONE: 208-606-7500
EMAIL: INFO@AUTOVOL.COM

APPROVALS

ALPINE FIRE DEPARTMENT
220 US-89
ALPINE, WY 83128
(307) 654-7581

INSPECTIONS

PHONE:
WELD INSPECTION:

REVISIONS

NO.	DATE	DESCRIPTION

CITY SUPPLY

STATIC PRESSURE: 80 PSI
RESIDUAL PRESSURE: 60 PSI
FLOW @ RESIDUAL: 2400 GPM
TEST LOCATION:
TEST DATE:
TESTING AGENCY:
HYDRANT #: N/A

ORIENTATION

N
W E
S TRUE

SCALE

1/8" = 1'-0"
0' 2' 4' 8' 16' 24'

DESCRIPTION

FLOOR 1 SYSTEM PIPING PLAN

SHEET NUMBER

FP-1.0

JOB NUMBER: C23018
DRAWN BY: Zackary Strong
PLAN DATE: 04/05/24
PRINT DATE: 04-05-2024

- KEY NOTES**
- 1 TYPICAL SYSTEM RISER
SEE DETAIL ON SHEET FP-D2
 - 2 TYPICAL COMBINATION STANDPIPE
SEE DETAIL ON SHEET FP-D2
 - 3 TYPICAL STANDPIPE
SEE DETAIL ON SHEET FP-D2
 - 4 4" TYPICAL STANDPIPE & HOSE VALVE CABINET
SEE DETAIL ON SHEET FP-D2
 - 5 4" DOWN TO FLOOR BELOW
8" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 6 4" UP TO FLOOR ABOVE
8" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 7 2" DRAIN UP TO FLOOR ABOVE
4" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 8 2" DRAIN DOWN TO FLOOR BELOW
4" CAN FOR ANNULAR CLEARANCE PER NFPA 13
 - 9 2" DRAIN TO SANITARY CONNECTION
 - 10 1" AUXILIARY DRAIN
NIPPLE, VALVE & PLUG
 - 11 1" AUXILIARY DRAIN
PIPE TO SANITARY DRAIN
 - 12 9'-0 MAX. IN SMALL ROOMS
SEE DESIGN NOTE #1 ON SHEET FP-0.1
 - 13 SPRINKLER OMITTED FROM BATHROOM
SEE DESIGN NOTE #2 ON SHEET FP-0.1
 - 14 SPRINKLERS OMITTED FROM OVERHANG
SEE DESIGN NOTE #3 ON SHEET FP-0.1
 - 15 SPRINKLERS OMITTED FROM VERTICAL SHAFT
SEE DESIGN NOTE #4 ON SHEET FP-0.1
 - 16 LAUNDRY OR GARBAGE CHUTE SPRINKLER
PRE-INSTALLED & CONNECTED BY AEGIS
 - 17 CPVC TO STEEL PIPE ADAPTER
THREADED OR GROOVED AS APPLICABLE

- PIPING NOTES**
- 1 BRANCHLINE PIPING TO BE INSTALLED 6" FROM
BOTTOM OF SLAB TO CENTER OF PIPE, TYPICAL.
 - 2 BULK MAINS TO BE INSTALLED 1'-0" FROM
BOTTOM OF DECK TO CENTER OF PIPE, TYPICAL.
 - 3 SYSTEM MAINS TO BE INSTALLED 1'-8" FROM
BOTTOM OF DECK TO CENTER OF PIPE, TYPICAL.
 - 4 ALL EXPOSED PIPING SHALL BE STEEL PIPE PER
GENERAL NOTE # 17 ON SHEET FP-0.1.

- CONCEALED SPACES**
- 1 ALL CONCEALED COMBUSTIBLE SPACES SHALL
BE ENTIRELY FILLED WITH NONCOMBUSTIBLE
INSULATION.
 - 2 SPRINKLERS SHALL BE OMITTED FROM
CONCEALED COMBUSTIBLE SPACES ENTIRELY
FILLED WITH NONCOMBUSTIBLE INSULATION
PER NFPA 13, 9.2.1.7.

AIR VENT NOTE

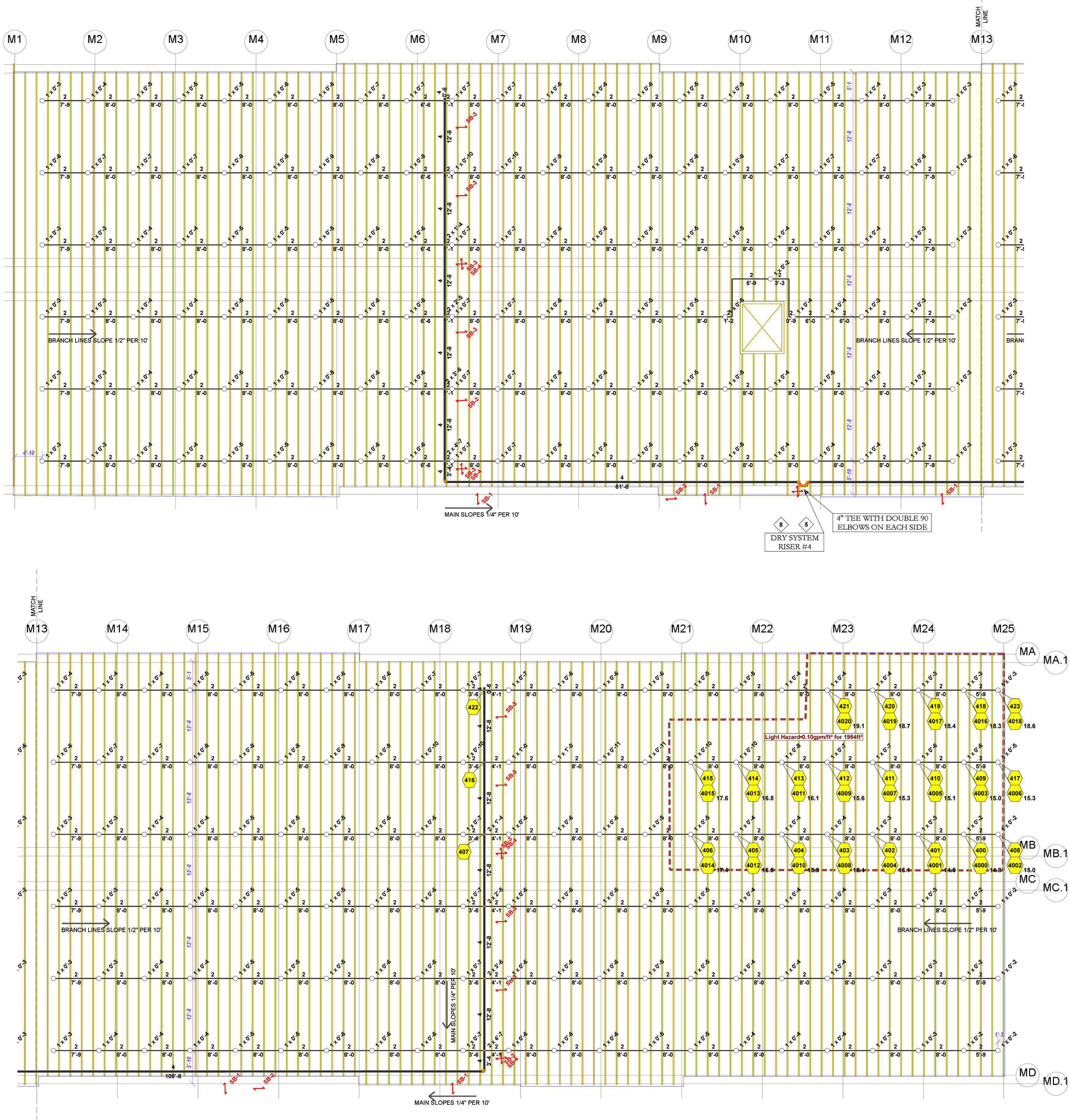
AS STATED IN NFPA 13 SECTION 16.7:
AT THE DISCRETION OF THE INSTALLER,
AUTOMATIC AIR VENTS ARE TO BE INSTALLED BY ONE
OF THE FOLLOWING METHODS
(1) MANUAL VALVE, MIN 1/2"
(2) AUTOMATIC AIR VENT
(3) REMOTE INSPECTOR'S TEST VALVE
(4) OTHER APPROVED MEANS

PIPE LEGEND

BLACK STEEL PIPE
CPVC PIPE

SPRINKLER LEGEND										
Sprinkler Legend										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Note
	Tyco	TY3131	TY-FRB	260	5.6	Upright	1/2"	Quick	Brass	200 °F
				Total = 260	MAX SPACING 120 S.F.					

Hydraulic Information	
Remote Area 4	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500ft² (Actual 1954ft²)
TOTAL HOSE STREAMS	100.0
DRY CAPACITY	617gal
TOTAL HEADS FLOWING	21
K-FACTOR	5.6
TOTAL WATER REQUIRED	445.1
TOTAL PRESSURE REQUIRED	66.8
BASE OF RISER (gpm)	345.1
BASE OF RISER (psi)	55.1
SAFETY MARGIN (psi)	+12.3 (15.6%)



STAMP

PROJECT

ALPINE EXTENDED
100 Wintergreen Drive
Alpine, WY 83128

CUSTOMER

MOD. FACTORY

AUTOVOL
16379 STAR ROAD, NAMPA, ID
PHONE: 208-606-7500
EMAIL: INFO@AUTOVOL.COM

APPROVALS

ALPINE FIRE DEPARTMENT
220 US-89
ALPINE, WY 83128
(307) 654-7581

INSPECTIONS

PHONE: _____

WELD INSPECTION: _____

REVISIONS

NO.	DATE	DESCRIPTION

CITY SUPPLY

STATIC PRESSURE: 80 PSI

RESIDUAL PRESSURE: 60 PSI

FLOW @ RESIDUAL: 2400 GPM

TEST LOCATION: _____

TEST DATE: _____

TESTING AGENCY: _____

HYDRANT #: _____ N/A

ORIENTATION

N
W E
S TRUE

SCALE

1/8" = 1'-0"

0' 2' 4' 8' 16' 24'

DESCRIPTION

ATTIC SYSTEM PIPING PLAN

SHEET NUMBER

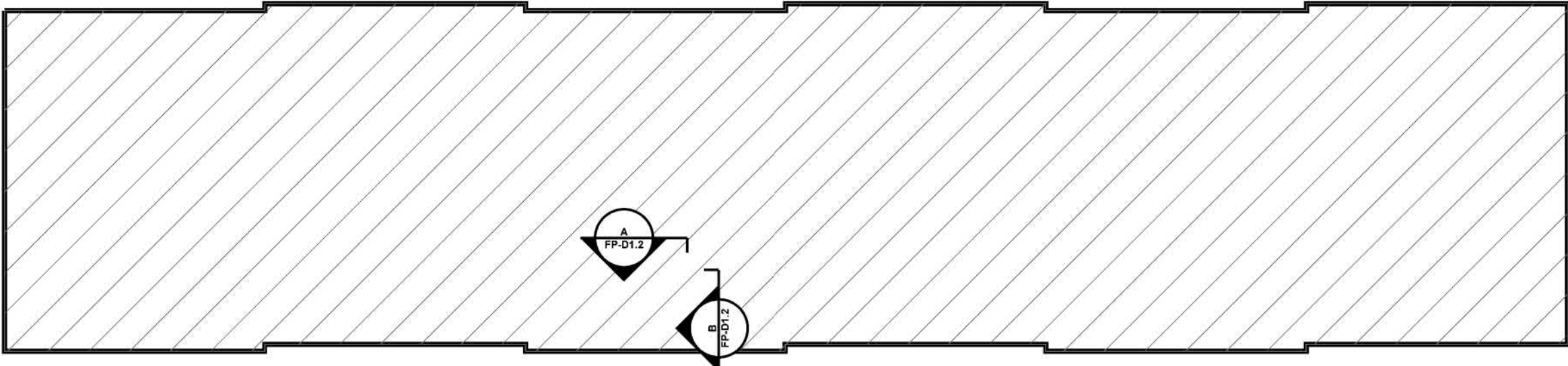
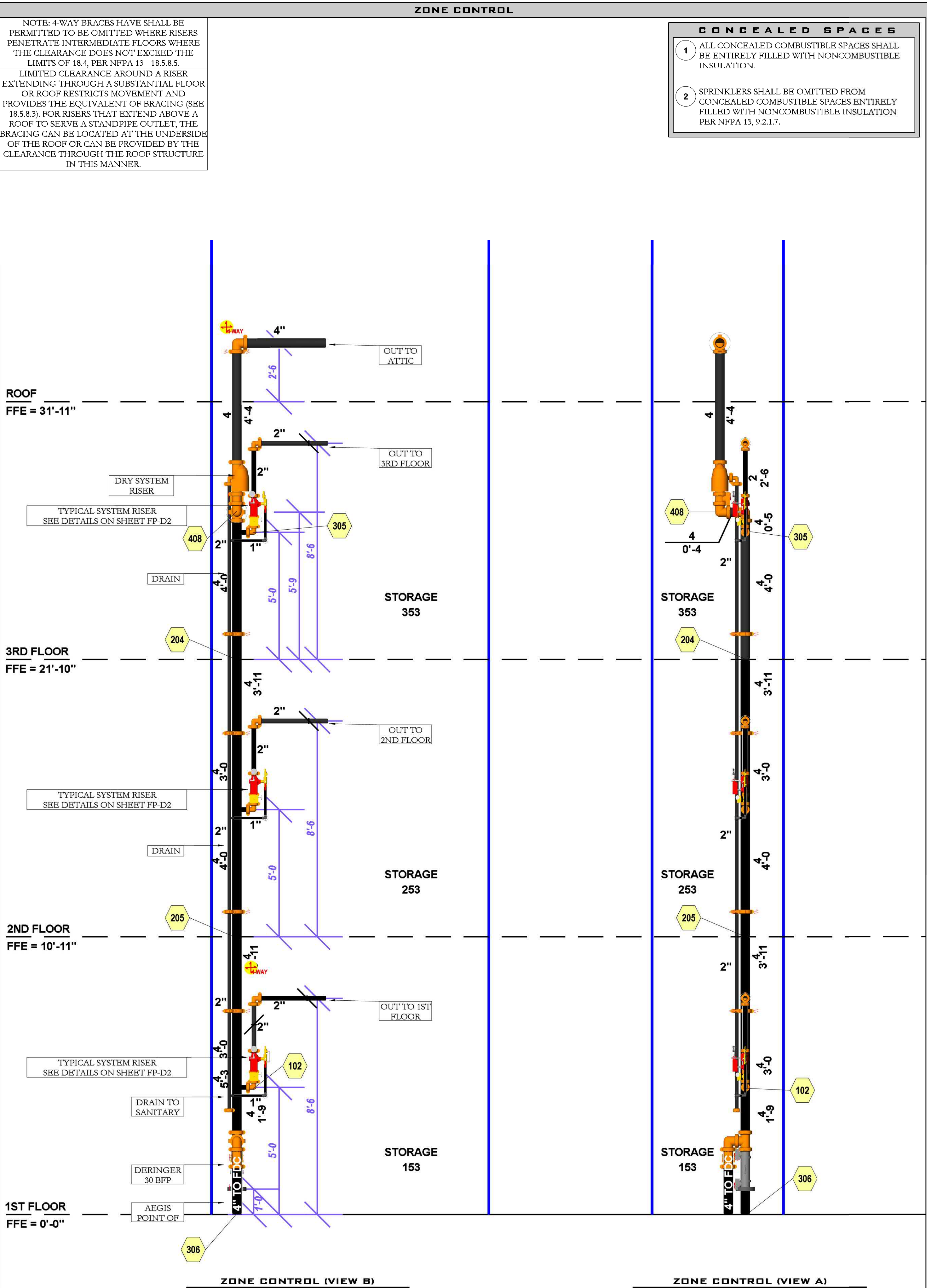
FP-4.0

JOB NUMBER: C23018

DRAWN BY: Zackary Strong

PLAN DATE: 04/03/24

PRINT DATE: 04-03-2024



KEY PLAN
SCALE: NONE

STAMP

PROJECT
ALPINE EXTENDED
100 Wintergreen Drive
Alpine
WY 83128

CUSTOMER

MOD. FACTORY
AUTOVOL
16379 STAR ROAD, NAMP, ID
PHONE: 208-606-7500
EMAIL: INFO@AUTOVOL.COM

APPROVALS
ALPINE FIRE DEPARTMENT
220 US-89
ALPINE, WY 83128
(307) 654-7581

INSPECTIONS
PHONE:
WELD INSPECTION:

REVISIONS

NO.	DATE	DESCRIPTION

CITY SUPPLY
STATIC PRESSURE: 80 PSI
RESIDUAL PRESSURE: 60 PSI
FLOW @ RESIDUAL: 2400 GPM
TEST LOCATION:
TEST DATE:
TESTING AGENCY:
HYDRANT #: N/A

ORIENTATION

SCALE
1/2" = 1'-0"

DESCRIPTION
ZONE CONTROL

SHEET NUMBER
FP-D1.2

JOB NUMBER: C23018
DRAWN BY: Zackary Strong
PLAN DATE: 04/04/24
PRINT DATE: 04-04-2024