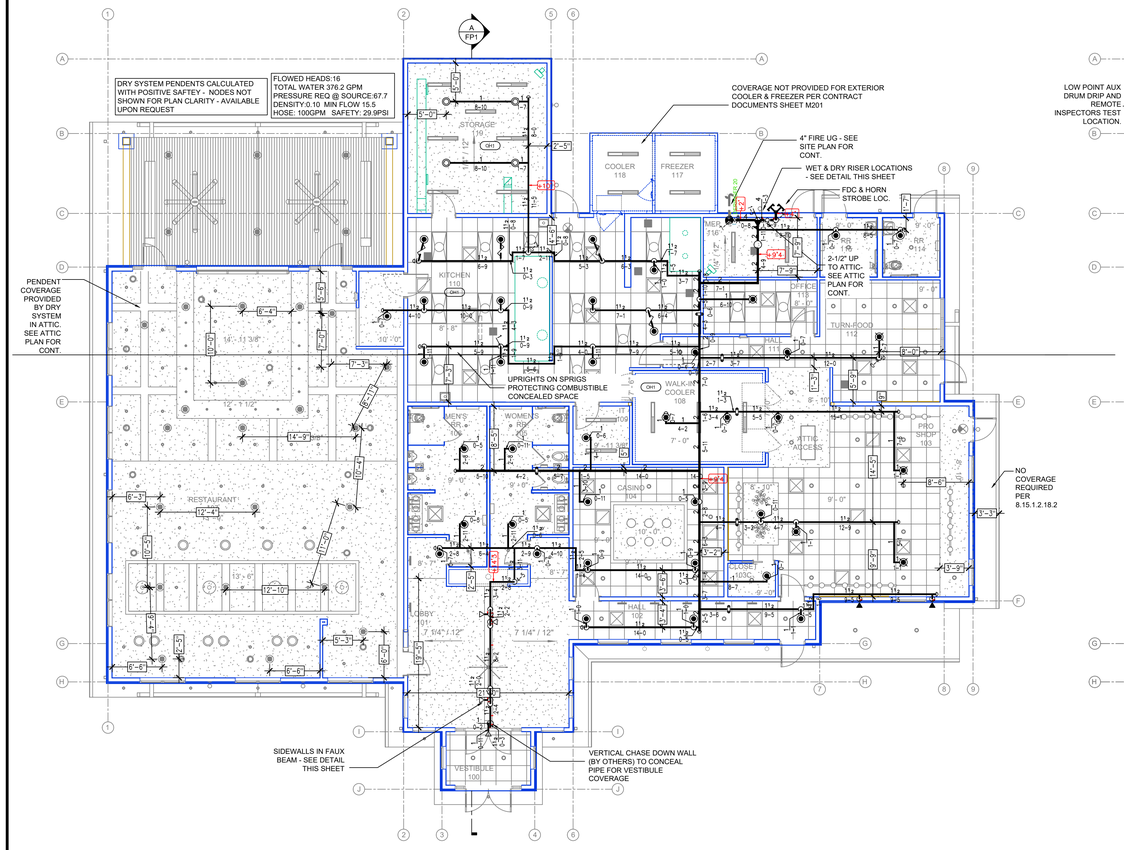
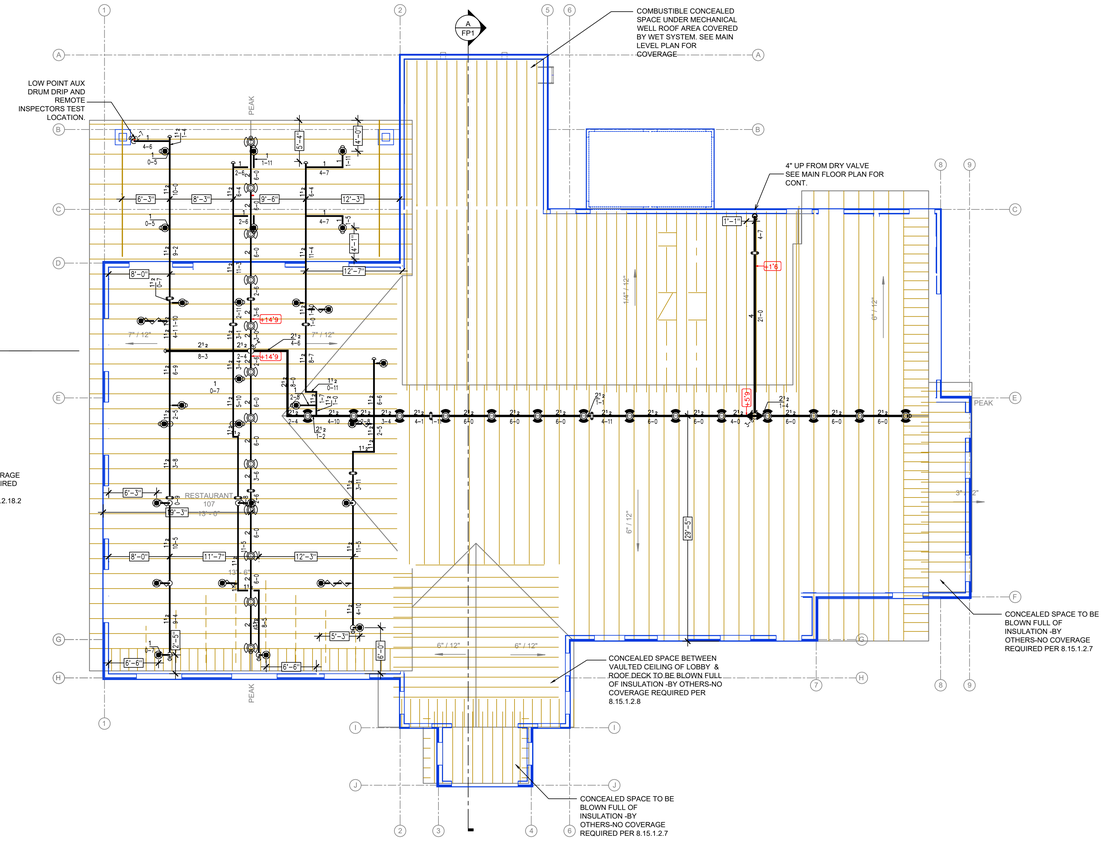


MAIN LEVEL FIRE PROTECTION PLAN
SCALE: ⅛" = 1'-0"



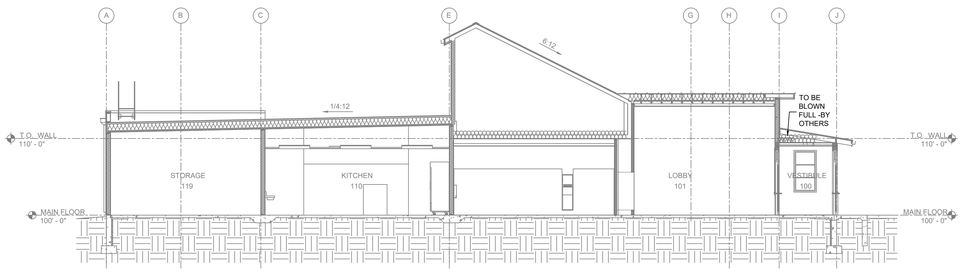
ATTIC LEVEL FIRE PROTECTION PLAN
SCALE: ⅛" = 1'-0"

SPRINKLER HEAD LEGEND

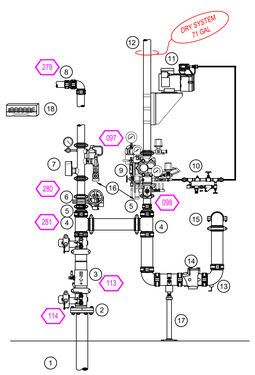
SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON	SPACING
	42	PENDENT	CHROME	200	5.60	1/2"	RA1414	RELIABLE	F1FR56	SEMI RECESSED	225SF LIGHT / 130SF OH
	1	UPRIGHT	BRASS	286	5.60	1/2"	RA1425	RELIABLE	F1FR56	NONE	225SF LIGHT / 130SF OH
	7	SPRIG	BRASS	212	5.60	1/2"	RA4454	RELIABLE	CC-S	NONE	256SF (16'x16' MAX)
	5	SIDEWALL	CHROME	200	5.60	1/2"	RA1435	RELIABLE	F1FR56	SEMI RECESSED	225SF LIGHT / 130SF OH
	21	PENDENT	CHROME	200	5.60	1"	R5714	RELIABLE	F3QR	STANDARD	196SF LIGHT / 100SF OH
	5	PENDENT	CHROME	200	11.20	3/4"	RA7216	RELIABLE	J112	SEMI RECESSED	324SF (18'x18' MAX)
	12	SPRIG	BRASS	200	5.60	1/2"	RA5694	RELIABLE	DD56-27	NONE	6'x40'
	4	SPRIG	BRASS	286	5.60	1/2"	RA1425	RELIABL	F1FR56	NONE	225SF LIGHT / 130SF OH
	2	SIDEWALL	CHROME	200	5.60	1"	R5734	RELIABL	F3QR	STANDARD	196SF LIGHT / 100SF OH
	14	UPRIGHT	BRASS	200	8.00	3/4"	RA5692	RELIABLE	DD80-27	NONE	6'x40'
	112	TOTAL									

PIPE LEGEND

WET SYSTEM BLACK STEEL PIPING
DRY SYSTEM BLACK STEEL PIPING



A BUILDING SECTION
SCALE: ⅛" = 1'-0"

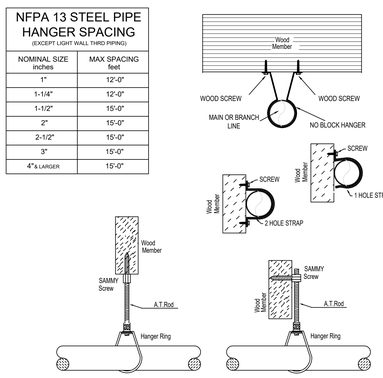


RISER LEGEND
1. 4" UNDERGROUND WATER SERVICE (BY OTHERS) (FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM HOOKUP. UNDERGROUND PAPERS ARE TO BE SUPPLIED TO THE "FP" CONTRACTOR BY THE G.C.)
2. 4" GROOVE FLANGE ADAPTER
3. 4" AMES COLT C200 BACKFLOW GxG BFV w/ TAMPERS
4. 4" GROOVED TEE
5. 4" x 2-1/2" GROOVED ECCENTRIC REDUCER
6. 2-1/2" GROOVED BUTTERFLY VALVE w/ TAMPER
7. 2-1/2" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN
8. 2-1/2" x 2" GROOVED ECCENTRIC REDUCER TO WET SYSTEM
9. 2-1/2" GROOVED DRY VALVE
10. AIR MAINTENANCE DEVICE
11. RISER MOUNTED AIR COMPRESSOR
12. 2-1/2" TO DRY SYSTEM
13. 4" GROOVED DRAIN 90 w/ BALL DRIP
14. 4" GROOVED CHECK VALVE
15. 4" 90 TO FDC
16. 1-1/4" MAIN DRAIN PIPED TO OUTSIDE
17. PIPE STAND
18. SPARE SPRINKLER CABINET w/ WRENCH

1 RISER DETAIL
SCALE: ½" = 1'-0"

NFPA 13 STEEL PIPE HANGER SPACING
(EXCEPT LIGHT WALL THRD PIPING)

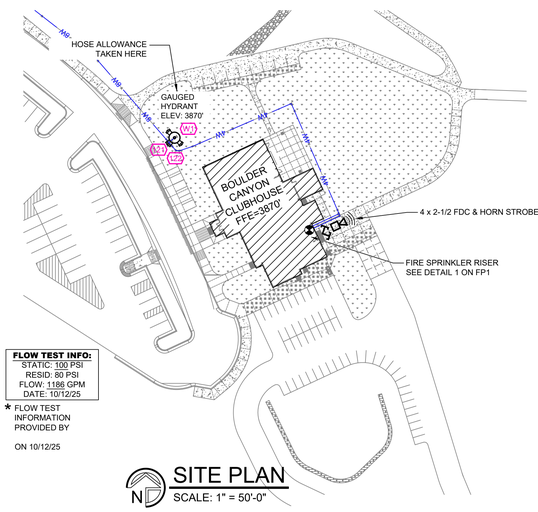
NOMINAL SIZE inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"



HANGER DETAILS

GENERAL NOTES

1. INTERNATIONAL BUILDING CODE (2021)
   - 1.1. OCCUPANCY: **TYPE A-2, B**
   - 1.2. TYPE OF CONSTRUCTION:**V-B**
   - 1.3. SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
   MAIN LEVEL = 7,320 S.F.
   ATTIC = 5,577 S.F.
   - 1.4. INSTALLATION STANDARDS:
   SPRINKLER SYSTEM DESIGNED AND INSTALLED PER **NFPA-13(2016)**
2. SPRINKLER PIPE TYPES:
   -WET-
   - 2.1. 1" BRANCH LINES TO BE BLK **SCHEDULE 40** PIPING WITH THREADED FITTINGS
   - 2.2. 1½" THROUGH 4" MAIN & BRANCH LINES TO BE BLK **SCHEDULE 40** PIPING WITH GROOVED FITTINGS
   - 2.3. MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK **SCHEDULE 40** PIPING
   -DRY-
   - 2.4. 1" BRANCH LINES TO BE THREADED BLK **SCHEDULE 40** WITH THREADED FITTINGS
   - 2.5. 1½" THROUGH 6" MAIN & BRANCH LINES TO BE GROOVED BLK **SCHEDULE 10** WITH GROOVED FITTINGS
   - 2.6. MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK **SCHEDULE 10** PIPING
3. DESIGN CRITERIA
   - 3.1. LIGHT HAZARD AREAS **DESIGNED TO DELIVER 0.10 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.**
   - 3.2. ORDINARY HAZARD GROUP 1 AREAS **DESIGNED TO DELIVER 0.15 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.**
   - 3.3. REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER **NFPA 13 SEC. 11.2.3.2.3**
4. NOTES:
   - 4.1. ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
   - 4.2. HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016) - **SEE PLAN FOR HANGING REQ.**
   - 4.3. DRY SYSTEM PIPE SLOPE INSTALLATION
     SPRINKLER MAINS TO BE ¼" PER 10 FEET
     SPRINKLER BRANCH LINES TO BE ½" PER 10 FEET
   - **4.4. DRY SYSTEM CAPACITY**
     - **4.4.1. 71 GAL.**
5. SYMBOLS USED ON DRAWINGS:
   - +10" PIPE ELEVATION A.F.F
   - OH1 ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
   - FT HYDRAULIC CALCULATION JUNCTION POINT
   - 0'-0" CEILING HEIGHT
6. SCOPE OF WORK:
   - 6.1. INSTALL A COMPLETE WET SYSTEM TO PROTECT THE FINISHED MAIN LEVEL AREAS WHERE WARM SPACE ABOVE THE FINISHED CEILINGS IS AVAILABLE. INSTALL A COMPLETE DRY SYSTEM TO PROTECT THE ATTIC AND ANY MAIN LEVEL SPACES THAT DO NOT HAVE A WARM SPACE FOR THE SPRINKLER PIPE TO BE ROUTED.
   - 6.2. ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2016)



FLOW TEST INFO:
STATIC: 100 PSI
RESID: 80 PSI
FLOW: 1186 GPM
DATE: 10/12/25

★ FLOW TEST INFORMATION PROVIDED BY

ON 10/12/25

SITE PLAN
SCALE: 1" = 50'-0"

REVISIONS

BOULDER CANYON CLUBHOUSE
APPLE SPRINGS, SD.57785

Drawing Title: FIRE PROTECTION PLAN
Project No.: 2025TM
Drawn By: RB
Scale: 1/8" = 1'
Date: 10/17/25
DWG Type: SUBMITTAL DWG

NORTH / WEST / EAST / SOUTH

FP1 OF 1

0 4 8 16