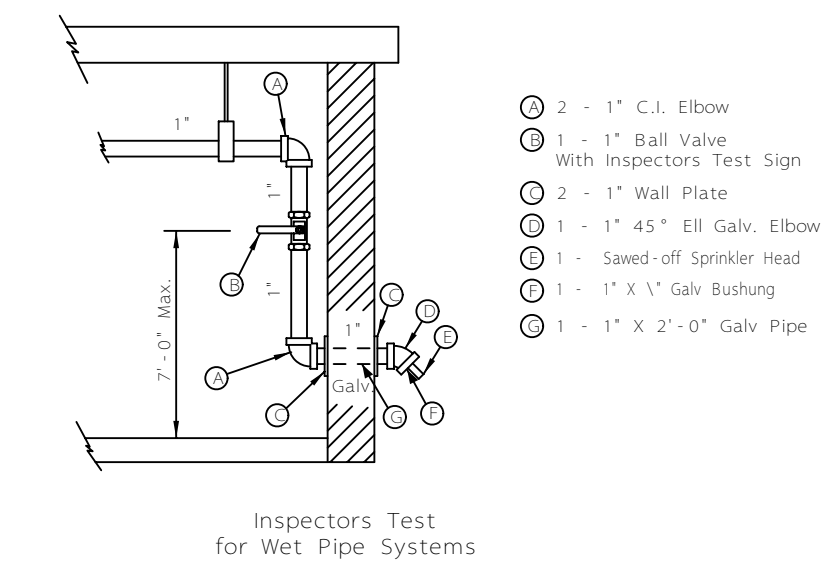
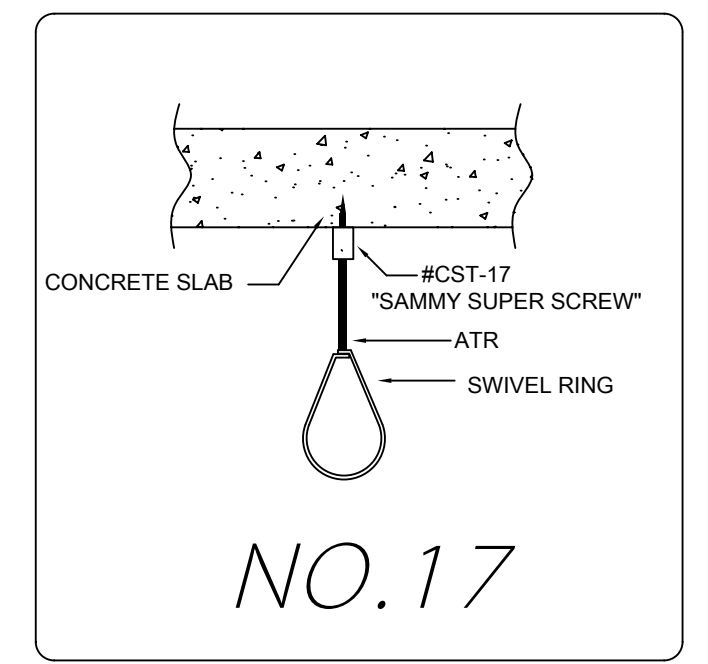


Design Area No. #10A - LIGHT  
Density .10 Area ROOM DESIGN  
Flow 361.5 gpm @ 72.70psi  
Includes 100 gpm Hose allowance

Design Area No. #9A - LIGHT  
Density .10 Area 1500  
Flow 264.71 gpm @ 43.22psi  
Includes 100 gpm Hose allowance

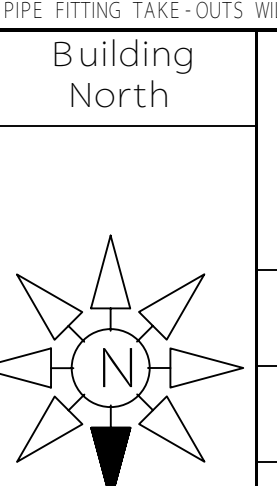
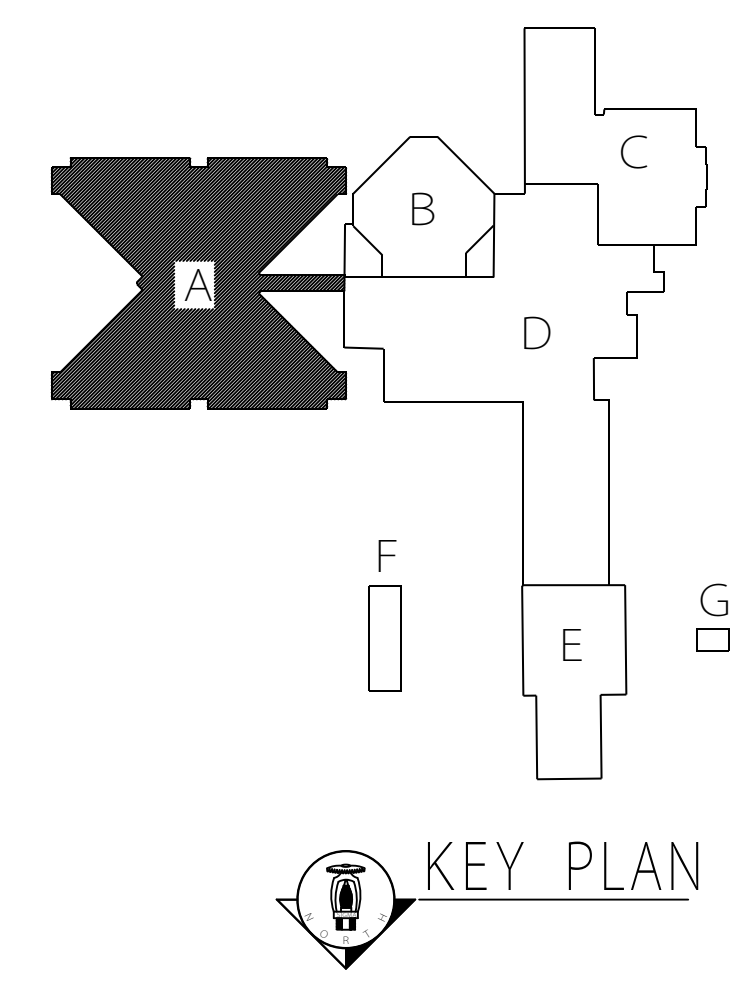
Design Area No. #9B - LIGHT  
Density .10 Area 1000  
Flow 296.76gpm @ 28.79psi  
Includes 100 gpm Hose allowance



NFPA 13 and State Fire Codes require the building owner to be responsible for maintaining the sprinkler system and keeping the system in good operating condition. With the influx of new and specific fire sprinkler styles in the market the sprinkler heads in this building may be a combination of standard response, quick response, or residential styles, and could be either a standard or extended coverage spray pattern. Care should be exercised during the replacement of any sprinkler head to be assured the replacement sprinkler is identical to the original sprinkler head. Head requirements to be considered include, but are not limited to, make, model, office size, temperature, pressure requirements, spray pattern, and maximum spacing limitations.

AREA "A" SECOND FLOOR FIRE SPRINKLER PLAN  
SCALE: 1/8"=1'-0"

CEILING HEIGHT = 10'-8" U.N.O.  
ELEVATION OF PIPE = 8'-6" A.F.F. (U.N.O.)  
ALL DROPS = 1" X 0'-8" CENTER OF PIPE TO CEILING  
ALL HANGERS = TYPE #17 X 2'-2" (U.N.O.)



**Building North**

Note:  
To prevent freezing of pipe in sprinkler system others shall provide sufficient heat to maintain system above 40° F, unless an anti-freeze loop or dry pipe system is installed.

All welded fittings to be shop welded and in accordance with NFPA Pamphlet 13.

Sprinkler foreman to locate any high temp. heads not shown on shop drawing.

**General Notes**

PIPE: 1" THRU 2" - THREADABLE THINWALL (A-135 OR A-795F)  
2" & LARGER SCH40 A135 THINWALL w/ ROLL GROOVED ENDS

UNDERGROUND PIPE  
UNDERGROUND TEST CERTIFICATE  
TRENCHING & BACKFILL  
PAVING

EXISTING PIPE REMOVAL  
FIRE HYDRANTS  
DRAIN PIT MATERIALS  
VALVE PIT

BLDG. CONSTRUCTION:  
NON COMBUSTIBLE STEEL I BEAMS AND BAR JOISTS

SPKR LOCATION: AS REQUIRED BY FIRE CODE, BUT NOT NECESSARILY CENTER OF TILES

The following are to be provided or installed by:

Symbol	Description	Symbol	Description
(D)	PAINTING OF PIPE - IF DESIRED	(D)	PIPE TO BOTTOM OF SILL OR CONCR. DECK OR BOTTOM OF WOOD JOIST
(S)	PIPE IDENTIFICATION MARKERS	(S)	PIPE TO BOTTOM OF STEEL BEAM OR METAL JOIST
(R)	GRID SYSTEM PRESSURE RELIEF VALVE	(H)	HANGER ROD LENGTH
(C)	SPRINKER HEAD CABINET WITH WRENCH	(A)	PIPE ABOVE FINISHED FLOOR
(V)	MAIN DRAIN/TEST VALVE & GAGES	(H)	HYDRAULIC CALCULATION POINT
(X)	EXISTING PIPE REMOVAL	(U)	UNLESS NOTED OTHERWISE
(Y)	EXISTING SPRINKLER RELOCATION	(C.H.)	CEILING HEIGHT
(Z)	HOUSEKEEPING PAD		
(AA)	SEWER DRAIN CONNECTIONS		
(AB)	SLEEVES		
(AC)	ELECTRICAL WIRING AND/OR ALARM SYSTEM		
(AD)	ELECTRICAL DETECTION SYSTEM		
(AE)	FIRE CAULK - FIRE RATED WALLS		

**Legend**

Symbol	Description	Symbol	Description
(D)	PIPE TO BOTTOM OF SILL OR CONCR. DECK OR BOTTOM OF WOOD JOIST	24	MT ROD, RING & TOP BM CLAMP W/LOCK NUT
(S)	PIPE TO BOTTOM OF STEEL BEAM OR METAL JOIST	18/5W	MT ROD, RING, SIDE - BM BRACKET & BOLT
(H)	HANGER ROD LENGTH	12	MT ROD, RING & EXP. CASE
(A)	PIPE ABOVE FINISHED FLOOR	10-	COACH SCREW ROD OR SUPERSCREW W/ROD & RING
(H)	HYDRAULIC CALCULATION POINT	22	Z-PURLIN CLAMP, MT ROD & RING
(U)	UNLESS NOTED OTHERWISE	15	TRAPEZE:
(C.H.)	CEILING HEIGHT		

**Hangers**

Symbol	Description	Symbol	Description
(D)	PIPE TO BOTTOM OF SILL OR CONCR. DECK OR BOTTOM OF WOOD JOIST	TEMP	TEMPERATURE
(S)	PIPE TO BOTTOM OF STEEL BEAM OR METAL JOIST	LOCATION	LOCATION
(H)	HANGER ROD LENGTH	SIZE	SIZE
(A)	PIPE ABOVE FINISHED FLOOR	K	K
(H)	HYDRAULIC CALCULATION POINT	TYPE	TYPE
(U)	UNLESS NOTED OTHERWISE		
(C.H.)	CEILING HEIGHT		

**Sprinklers this drawing:**

Model	ESCH	TOTAL	Date	Revisions
RELIABLE FFR WHITE SEMI-RECESSED PENDANT	ESCH	6	02-14-01	CHANGED ZONE CONFIGURATION
RELIABLE FFR BRONZE UPRIGHT	FIWM	6	03-22-01	REVISED SOME PIPE SIZES
RELIABLE ZX-QR-INST CHROME PENDANT	CHCH	144	05-31-01	RELOCATED MAINS/ LINES PER FIELD CHECK
RELIABLE ZX-QR-INST CHROME SIDEWALL	CHCH	120	08-07-01	ADDED HEADS @ TOP OF CELL CHASES

**Revisions**

Date	Revisions
02-14-01	CHANGED ZONE CONFIGURATION
03-22-01	REVISED SOME PIPE SIZES
05-31-01	RELOCATED MAINS/ LINES PER FIELD CHECK
08-07-01	ADDED HEADS @ TOP OF CELL CHASES

**Brewer & Company**  
of West Virginia, Inc.  
Charleston Morgantown  
1-800-642-8598

**LAKIN CORRECTIONAL FACILITY FOR WOMEN**

LOCATION: LAKIN WEST VIRGINIA  
CONTRACT WITH: STATE OF WEST VIRGINIA  
DATE: 10/17/00 JOB NO.: 9900-03-0370