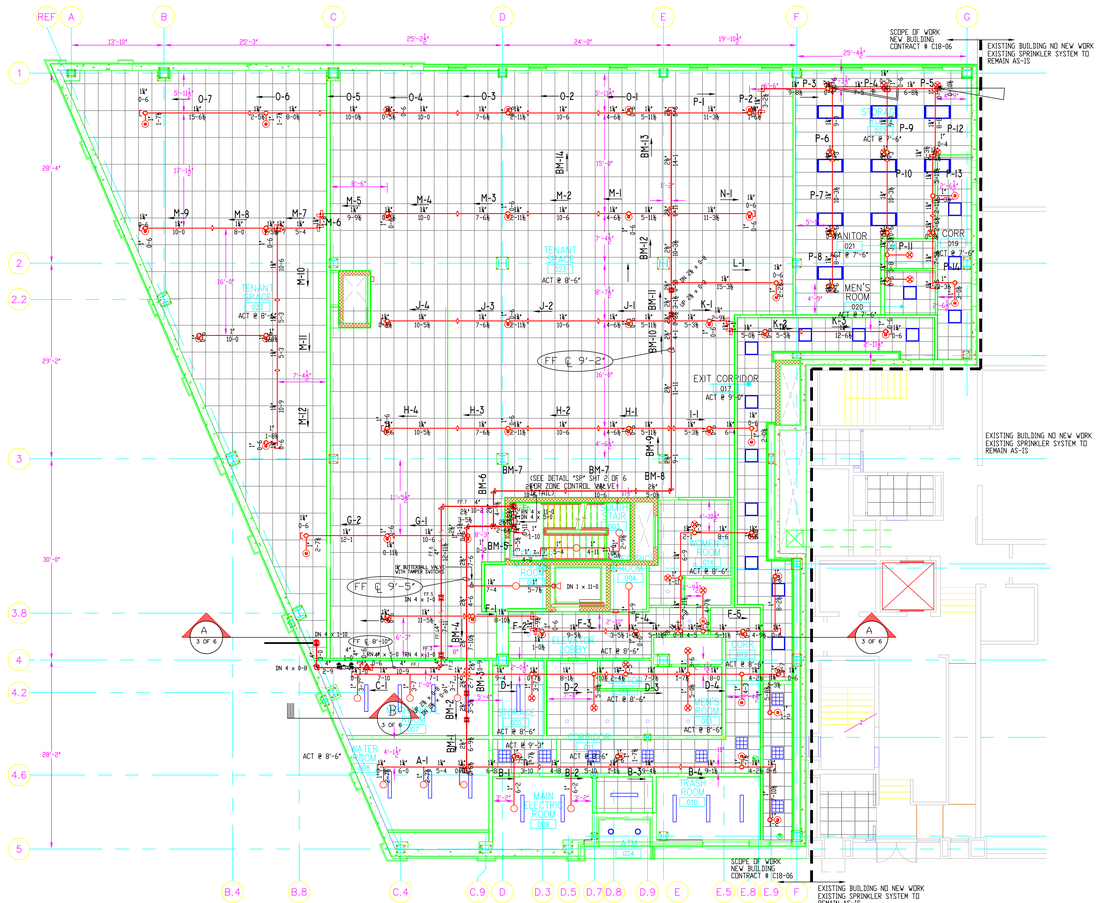


LOWER LEVEL
1/8"=1'-0"
FINISH FLOOR ELEVATION: 100'-0"
AREA PROTECTED: 10,827 SQ. FT.

VICTAULIC
MODEL "V3904"
WHITE CONCEALED
PENDENT

155
47
½"

K-FACTOR = 8.0
SIN # "V3904"
SYMBOL=

VICTAULIC
MODEL "V2709"
BRASS SIDEWALL

200
1
½"

K-FACTOR = 5.6
SIN # "V2709"
SYMBOL=

VICTAULIC
MODEL "V2704" QR
BRASS UPRIGHTS

155
15
½"

K-FACTOR = 5.6
SIN # "V2704"
SYMBOL=

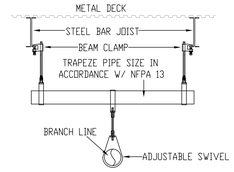
VICTAULIC
MODEL "V3802"
WHITE CONCEALED
PENDENT

155
22
½"

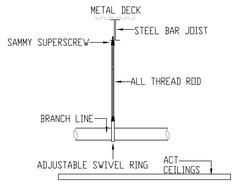
K-FACTOR = 5.6
SIN # "V3802"
SYMBOL=

AS-BUILT DRAWING
SEPTEMBER 17, 2007

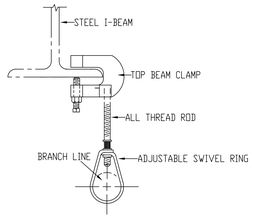
(ALL THREAD ROD & ADJUSTABLE
SWIVEL RINGS TYPICAL FOR
ALL HANGERS)



TYPICAL TRAPEZE HANGER
NOT TO SCALE



TYPICAL SAMMY SUPERSCREW HANGER
NOT TO SCALE



TOP BEAM CLAMP PIPE HANGER
NOT TO SCALE

HANGER DETAILS
N.T.S

ALL HANGERS AND HANGER COMPONENTS
TO BE INSTALLED AND COMPLY WITH NFPA # 13
GENERAL SPRINKLER SYSTEM DATA

HYDRAULIC-SYSTEM	
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM	
LOCATION	AREA # 1 5TH FLR
NO. OF SPRINKLERS	7
BASIS OF DESIGN	
1. DENSITY	.1 GPM SQ FT
2. DESIGNED AREA OF DISCHARGE	1147 SQ. FT.
SYSTEM DEMAND	
1. GPM DISCHARGE	145.11 GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER	73.243 PSI

HYDRAULIC NAMEPLATE DETAIL

HYDRAULIC-SYSTEM	
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM	
LOCATION	AREA # 1 2ND FLR
NO. OF SPRINKLERS	5
BASIS OF DESIGN	
1. DENSITY	.1 GPM SQ FT
2. DESIGNED AREA OF DISCHARGE	1280 SQ. FT.
SYSTEM DEMAND	
1. GPM DISCHARGE	182.23 GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER	71.903 PSI

HYDRAULIC NAMEPLATE DETAIL

GENERAL NOTES:

THE SPRINKLER SYSTEM INSTALLATION SHALL COMPLY WITH THE NFPA 13 STANDARD 2002 EDITION. THE STANDPIPE IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 14 2003 EDITION.

SPRINKLER SYSTEM PIPING IS TO BE STEEL PIPE. 1" STEEL PIPE IS TO BE BLACK SCHEDULE 40 JOINED WITH THREADED MALLEABLE IRON FITTINGS. 1¼" AND LARGER STEEL PIPE TO BE BLACK SCHEDULE 10 JOINED WITH GROOVED MECHANICAL COUPLINGS AND FITTINGS.

THE OWNER IS TO PROVIDE SUFFICIENT HEAT THROUGHOUT THE BUILDING TO PREVENT THE SPRINKLER SYSTEM PIPING AND COMPONENTS FROM FREEZING (MINIMUM 40°F).

ALL WIRING IS TO BE DONE BY OTHERS.

OCCUPANCY DESCRIPTION AND CLASSIFICATION:
OFFICES & FUTURE OFFICES / LIGHT HAZARD
OBSTRUCTED CONSTRUCTION STEEL BEAM AND GIRDER CONSTRUCTION
SPRINKLER DEFLECTORS TO BE LOCATED 1" TO 6" BELOW THE STRUCTURAL MEMBERS AND A MAXIMUM OF 22" BELOW THE DECK

PIPE SUPPORTS:
A. ALL HANGERS MUST BE AN APPROVED TYPE BY NFPA 13. NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.
B. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. VERTICAL RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL WITH STEEL PIPE CLAMPS. THE USE OF WIRE OR STRAP METAL HANGER TO SUPPORT PIPES WILL NOT BE PERMITTED. HANGING PIPES FROM OTHER PIPES WILL NOT BE PERMITTED. PIPING SHALL BE CAREFULLY COORDINATED BEFORE INSTALLATION WITH OTHER SYSTEMS AND EQUIPMENT IN CHASES AND OTHER CONGESTED AREAS.
C. MAXIMUM DISTANCE BETWEEN PIPE SUPPORTS:
- 12'-0" FOR 1 1/4" DIAMETER PIPE AND SMALLER
- 15'-0" FOR 1 1/2" DIAMETER PIPE AND LARGER

MANUAL-WET STANDPIPE SYSTEM
THE STANDPIPE SYSTEM IS A MANUAL-WET CLASS I STANDPIPE SYSTEM. PER NFPA 14 2003 EDITION SECTION 5.2.5.1 "A MANUAL WET STANDPIPE SYSTEM SHALL BE A WET STANDPIPE SYSTEM CONNECTED TO A SMALL WATER SUPPLY FOR THE PURPOSE OF MAINTAINING WATER WITHIN THE SYSTEM OR SHARING A WATER SUPPLY WITH AN AUTOMATIC SPRINKLER SYSTEM BUT NOT HAVING A WATER SUPPLY CAPABLE OF DELIVERING THE SYSTEM DEMAND ATTACHED TO THE SYSTEM".

SCOPE OF WORK
A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR REQUIRED TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
B. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
C. THE SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE ACT CEILING TILES.

PERMITS
A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES ASSOCIATED WITH THE STATE FIRE MARSHALS OFFICE.

TESTS
A. ACCEPTANCE AND HYDROSTATIC TESTS TO BE PERFORMED IN ACCORDANCE WITH SECTION 16.2.1.1 OF THE NFPA 13 STANDARD

MISCELLANEOUS
A. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
B. THE SPRINKLER PLANS ARE INTENDED TO BE DIAGRAMMATIC. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION.

GUARANTEE
A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE SPRINKLER CONTRACTOR'S EXPENSE.

SYMBOLS
(FF @ 0'-0") = INDICATES FINISH FLOOR UP TO CENTERLINE OF PIPE
(B @ 0'-0") = INDICATES BOTTOM OF DECK DOWN TO CENTERLINE OF PIPE
DN INDICATES VERTICAL PIPE DOWN
RN INDICATES VERTICAL PIPE UP
◯ = INDICATES HYDRAULIC REFERENCE POINTS

DENALI
FIRE PROTECTION, INC.
DESIGN INSTALLATION SERVICE
270 TIGER HILL RD.
OXFORD, MAINE 04270
(207) 539-4226 FAX (207) 539-8544

SCALE 1/8"=1'-0"

General Notes
1. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.
2. All Dimensions Shown are Center to Center.
3. High Temperature Heads are to be Field Located Where Required.
4. All Pipes and Hangers are to be Installed per NFPA #13.
5. Hangers are to be U.L. Listed and F.M. Approved.

Symbols	
Symbol	Description
◯	Hydraulic Reference Points
[18 IRN]	Elev. Below Top of Steel
(8'-6")	Elev. Above Finished Floor
+ (TOS 20'-0")	Elev. of Top of Steel
8'-0"	Ceiling Height
	Denotes Hanger Location
o	Rise up or down

Number of Sprinklers		
Total This Sheet	Total This Job	
Symbol	Description	

Drawing Title	NFPA 13 SYSTEM		
Contract No.	C18-06	Revisions:	Date:
Drawn By	CKD	REVISIONS	00/00/00
Scale	1/8"=1'-0"		
Date	11/29/06		
Approval By	SFM/PFD		

Job:
CUSTOM HOUSE SQUARE OFFICE BLDG
300 FORE STREET
PORTLAND, MAINE

Contractor:
DENALI FIRE PROTECTION INC.
270 TIGER HILL ROAD
OXFORD, MAINE 04270

SHEET 1 OF 6