

JOCKEY PUMP JAXIMUM

SENERAL CONTRACTOR
SATE VALVE
SALLONS
PER MINUTE
HEAT DETECTOR
NSIDE DIAMETER

10.

MAXIMUM FLOW VELOCITY SHALL NOT EXCEED 20 F.P.S.

WATER SUPPLY INFORMATION TO BE VERIFIED BY FLOW TEST.

A. STATIC PRESSURE: - 92 PSI
RESIDUAL PRESSURE: - 750 GPM
FLOW: - 750 GPM

STATIC PRESSURE: -RESIDUAL PRESSURE: -FLOW: -ELEVATION:

STRUCTURAL ENGINEER
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Francis

Cauffman

Francis Cauffman Foley Hoffmann Architects Ltd.

AUTOMATIC BALL DRIP AREA DRAIN ABOVE FINISHED FLOOR AUTOMATIC TRANSFER SWITCH BOTTOM OF PIPE CUBIC FEET PER MINUTE CHECK VALVE

FIRE

PROTECTION

GENERAL

NOTES:

SECURE WATER FLOW TEST DATA TAKEN FROM FIRE HYDRANTS NEAREST SITE. IF RECENT FLOW TEST DATA IS NOT AVAILABLE FROM CITY RECORDS, MAKE NECESSARY TESTS AS REQUIRED BY NFPA STANDARDS TO DETERMINE CHARACTER OF WATER SUPPLY. MINIMUM OF 20 PSI DROP IN PRESSURE BETWEEN STATIC AND RESIDUAL PRESSURE SHALL BE REQUIRED IN ORDER TO OBTAIN ACCURATE DATA.

HEALTHCARE FACILITIES, LL

,ANDMARK

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ERS IN ALL AREAS

SPRINKLER SYSTEM SHALL BE HYDRA OCCUPANCY EXCEPT AS NOTED.

ICALLY CALCULATED FOR LIGHT HAZARD

SPRINKLERS FOR GENERAL AREAS SHALL BE TYPE AS SCHEDULED, 165 DEG F RATED, HYDRAULICALLY DESIGNED TO PROVIDE 0.10 GPM/SQ FT OVER MOST REMOTE 1500 SQ FT PLUS 50 GPM FOR HOSE STREAM. MAXIMUM PROTECTION AREA PER SPRINKLER SHALL BE 225 SQ FT. ROOM DESIGN METHOD ACCEPTABLE.

SPRINKLERS IN STORAGE SPACES, LABORATORIES, MECHANICAL SPACES AND OTHER ORDINARY HAZARD SPACES SHALL BE HYDRAULICALLY DESIGNED TO PROVIDE 0.15 GPM/SQ FT OVER MOST REMOTE 2000 SQ FT PLUS 250 GPM FOR HOSE STREAM. MAXIMUM PROTECTION AREA PER SPRINKLER SHALL BE 130 SQ FT.

DRAIN

DOWN (PENETRATES FLOOR
EXISTING
EXISTING TO BE REMOVED
EXISTING TO BE REMOVED &
FIRE HOSE CABINET
FIRE HOSE VALVE

ADD 10% CONTINGENCY FACTOR TO HYDRAULIC CALCULATIONS.

EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILING SHALL BE AS INDICATED ON REFLECTED CEILING PLANS.

MINIMUM PRESSURE AT END SPRINKLER HEAD 7 PSI.

EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13 AND FACTORY MUTUAL 0.5 2-8N.

WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH LIGHTWALL PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA-13 SHALL BE INCREASED BY 39%.

5.

NORMALLY CLOSE

NOT IN THIS CONTRACT

NORMALLY OPEN

NOT TO SCALE

OUTSIDE DIAMETER

OUTSIDE SCREW & YOKE GATE VALVE

POUNDS PER SQUARE INCH (ABSOLUTE)

POUNDS PER SQUARE INCH (GAUGE)

PRESSURE REDUCING VALVE

RELOCATED EXISTING

EXISTING TO BE REMOVED
AND RETURN TO OWNER

SMOKE DETECTOR

16. 17.

PROVIDE AUXILIARY DRAINS FOR ALL BELOW DUCT SPRINKLERS AND OTHER TRAPPED SECTIONS. PIPING TO ONE SINGLE SPRINKLER IS EXCLUDED.

PROVIDE FLUSHING CONNECTIONS WHERE REQUIRED BY NFPA AND F.M.

COORDINATE WITH OWNER FOR ALL SHUTDOWNS.

15.

13.

ALL EXPOSED PIPE, FITTINGS, HANGERS AND SUPPLEMENTARY STEEL IN STAIRWELLS SHALL BE PAINTED.

ENDS OF ALL CROSS MAINS SHALL BE PROVIDED WITH THREADED FLUSHING CONNECTION NO MORE THAN 2 INCHES IN DIAMETER.

ALL AUTOMATIC SPRINKLER HEADS, PIPE FITTINGS, PIPE HANGERS, AUTOMATIC CONTROL VALVES AND MANUAL CONTROL VALVES SHALL BEAR FACTORY MUTUAL APPROVAL AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

12.

19.

ROVIDE ADDITIONAL HEADS UNDER DUCTWORK LARGER THAN 48" WIDE.

ROVIDE TEST CONNECTIONS AT HIGHEST POINT OF MAIN PORTION OF EACH PRINKLER SYSTEM, WITH 1" PIPE AND VALVE. TEST PIPE SHALL BE DINNECTED TO SPRINKLER PIPE AT LEAST 1-1/4" IN SIZE AND SHALL SCHARGE OUTSIDE BUILDING OR THROUGH 1/2" SMOOTH BORE RASS OUTLET, WHERE IT CAN BE EASILY SEEN.

HYDRAU	LIC DES	HYDRAULIC DESIGN TABLE	•					
AREA CALCULATED	HAZARD CLASS	DENSITY DESIGN	DESIGNED AREA OF OPERATION	SYSTEM DEMAND	HOSE STREAM	PRESSURE AVAILABLE	PRESSURE REQUIRED	REMARKS
FOURTH FLOOR	LIGHT	0.10 GPM/S.F.	1500 S.F.	216.2 GPM	100 GPM	85.9 PSI	60.7 PSI	

				TY	PE			S	
	-•	_	-	DESIGNATION				SPRINKLER	
				UPRIGHT				IKLE	
				PE	NDENT	-			
			•	FLU	JSH P	LATE SPKR.		HEAD SCHEDULE	
•				SE	MI RE	CESSED		SC	
		•			DEWALI HROME	FINISH)		HED	
					DEWALI ATURAL	- . BRONZE FIN	ISH)	ULE	
				FLI	JSH P	ENDENT			
				DR	Υ				
				QU	IICK R	ESPONSE			
				EX	TENDE	D COVERAGE			
						PR HD TO BE PRELOCATED			
				EXI	IST SF	PRINKLER HD			
						CENTRAL			
						RELIABLE			
F3QR	F1FR	G3A	G4A	MODEL NUMBER		GRINNELL	MANUFACTURER		
ЭR	FR	5A	A	NUMBER		STAR	CTURER		
				~		VIKING			
K=5.6, $1/2$ " ORIFICE 165°F RATING	K=5.6, 1/2" ORIFICE 165°F RATING	K=5.6, 1/2" ORIFICE 165°F RATING	K=5.6, 1/2" ORIFICE 165°F RATING			REMARKS			

NOTES:

EXTEND EXISTING SPRINKLER

TO NEW

EXPOSED UPRIGHT HEADS IN OCCUPIED SPACES SHALL BE CHR PROVIDE ESCUTCHEONS WHEN PENETRATING EXPOSED WALL. PROVIDE SPRINKLER GUARDS AT ALL HEADS 7'-0" AND LOWER. COLOR SELECTION BY ARCHITECT.

FIRE PROTECTION COVER SHEET

Fore River Mean Pavillon Portland, Maine Landmark Healthcare Facilities LLC River Medical

NOVEMBER 20, 2006

Project Number F06-5103

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