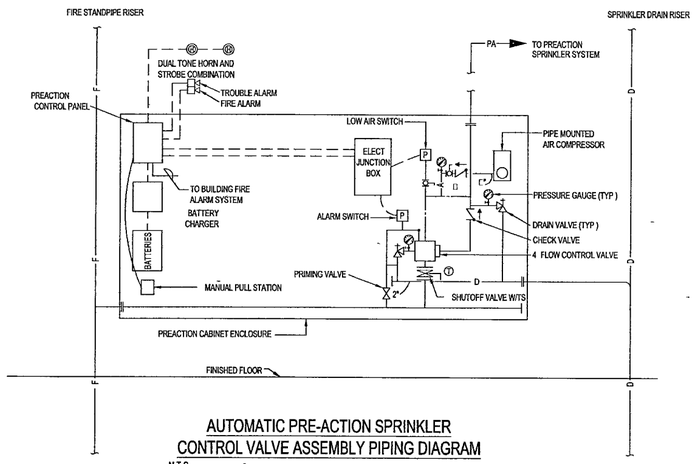
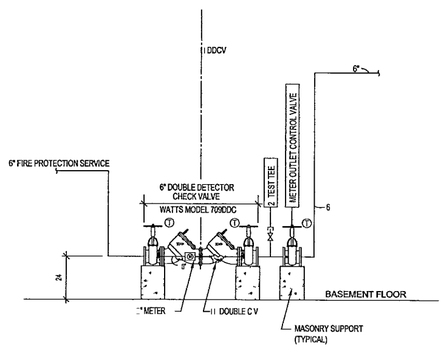


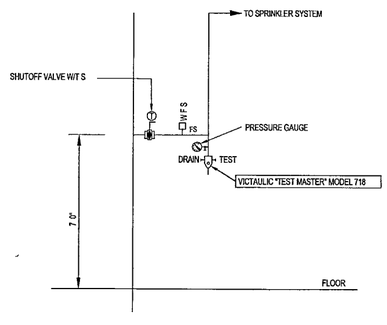
AUTOMATIC PRE-ACTION SPRINKLER CONTROL VALVE ASSEMBLY PIPING DIAGRAM

NTS



DETAIL OF FIRE PROTECTION SERVICE BACKFLOW PREVENTER ASSEMBLY

NTS



TYPICAL SPRINKLER FLOOR CONTROL VALVE ASSEMBLY

NTS.

ALL HEADS IN FINISHED CEILINGS SHALL BE QUICK RESPONSE CONCEALED PENDENTS

ALL PENDENT HEADS ON PREACTION SYSTEMS SHALL HAVE ARM-OVERS OR BE DRY-TYPE PER NFPA 13

ARCHIVE AREAS WITH SHELVING UNITS SHALL BE DESIGNED TO 3 / 1500 SQUARE FEET AT 100 SQUARE FEET PER HEAD

ALL PIPING SHALL BE INSTALLED IN A MANNER THAT WILL ALLOW SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13

RISERS LOCATED IN STAIRWELLS SHALL BE LOCATED SO AS TO BE OUT OF THE REQUIRED PATH OF EGRESS

FLOOR CONTROL VALVES IN STAIRWELLS SHALL BE LOCATED AS HIGH AS POSSIBLE, BUT SHALL NOT BE HIGHER THAN 7 FEET

COORDINATE DRAIN LINE ROUTING FOR MUSEUM PREACTION SYSTEMS AND INSPECTOR TEST STATIONS WITH CROMWELL ENGINEERS

ALL DRAIN SYSTEMS SHALL BE CAPABLE OF FULL-FLOW FOR THE RESPECTIVE SYSTEMS

THESE PLANS PROVIDE CONCEPTUAL LOCATION AND ROUTING INFORMATINO FOR RISER SUPPLY PIPING, FIRE PUMP, STANDPIPES, FIRE HOSE VALVE CABINETS, FIRE DEPARTMENT CONNECTIONS, FIRE PUMP TEST HEADER, BACKFLOW, AND PREACTION CABINETS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A COMPLETE SET OF DETAILED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SYSTEM COMPONENTS RELATED TO THE ARCHIVE BUILDING SHALL BE SEALED BY AN ARKANSAS REGISTERED ENGINEER ALL SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY A CROMWELL FIRE PROTECTION ENGINEER PRIOR TO INSTALLATION

VALVE SCHEDULE

TYPE	MANUFACTURER AND FIGURE No	SIZE MADE	FLANGED	GROOVED	SOLDER	SOCKET	MECH JT	W/ ADAPTER	C.O.S.Y.	N.R.S.	BRONZE	I.B.B.M.	ALL STEEL	CHECK STEEL	HOSE END	COMPOSITION DISC	125# WWP	175# WWP	200# WWP	225# WWP	300# WWP	400# WWP	500# WWP	740# WWP	1440# WWP	UL, FM, & ESA	SPRINKLER DRAIN	AUTOMATIC SPRINKLER	SERVICE
SHUTOFF VALVES	STOCKHAM B 103	1"-3"			●					●	●									●							●		
	STOCKHAM G 633	2½"-6"			●				●			●							●							●	●	●	
	STOCKHAM G 634	2½"-12"		●					●			●							●							●	●	●	
CHECK VALVES	STOCKHAM B 309	1"-3"				●					●									●							●		
	STOCKHAM G 938	2½"-6		●								●				●			●							●	●	●	
	STOCKHAM G 939	2½"-12"	●									●				●			●							●	●	●	

ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE AS MANUFACTURED BY RELIABLE AUTOMATIC SPRINKLER CO

SPRINKLER HEAD SCHEDULE

SYMBOL	QUICK RESPONSE STANDARD UPRIGHT	QUICK RESPONSE STANDARD PENDENT	QUICK RESPONSE CONCEALED PENDENT	QUICK RESPONSE RECESSED SIDEWALL	NON FREEZE CONCEALED PENDENT									
◉	X													
◎		X												
●			X											
◁				X										
⊠					X									

FIRE PROTECTION DRAWING LIST

F001	FIRE PROTECTION NOTES DETAILS & SCHEDULES
F100a	BASEMENT LEVEL PLAN
F100b	BASEMENT LEVEL PLAN
F101a	GROUND LEVEL PLAN
F101b	GROUND LEVEL PLAN
F101c	GROUND LEVEL PLAN
F102a	SECOND LEVEL PLAN
F102b	SECOND LEVEL PLAN
F102c	SECOND LEVEL PLAN
F103a	MUSEUM LOWER LEVEL PLAN
F103b	MUSEUM LOWER LEVEL PLAN
F103c	MUSEUM LOWER LEVEL PLAN
F104a	MUSEUM UPPER LEVEL PLAN
F104b	MUSEUM LOWER LEVEL PLAN
F105a	MUSEUM LOWER LEVEL PLAN
F103b	EXECUTIVE LEVEL PLAN
F500	RISER DIAGRAM

FIRE EXTINGUISHER LEGEND

FE 1	SURFACE MOUNTED (NO CABINET)
FE-2	CABINET RECESSED
FE-3	COMBINATION HOSE AND FIRE EXTINGUISER
FE-4	SEMI RECESSED
(K)	CLASS K RATING

LEGEND

	AUTOMATIC SPRINKLER PIPING
F	FIRE STANDPIPE PIPING
PA	PREACTION SPRINKLER PIPING
DP	DRY PIPE SPRINKLER
D	SPRINKLER DRAIN PIPING
	SLOPED CHANGE IN PIPE ELEVATION
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	PRESSURE GAUGE AND COCK
	UNION
	REDUCER
	ECCENTRIC REDUCER
	WATER PROOF SLEEVE
	SLEEVE
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	ELBOW TURNED DOWN
	ELBOW TURNED UP / CONN TO VERTICAL LINE
	VALVE IN VERTICAL
	BUTTERFLY VALVE
	SHUTOFF VALVE
	CHECK VALVE
	CHECK VALVE WITH AUTOMATIC BALL DRIP
	WALL MOUNTED FIRE DEPARTMENT SIAMESE CONNECTION
	EXISTING FIRE HYDRANT
	FIRE HOSE VALVE WITH CAP AND CHAIN
FE	FIRE HOSE VALVE WITH CAP AND CHAIN IN CABINET
	TAMPER SWITCH
	WATER FLOW SWITCH
	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	HEAT DETECTOR
	DETECTOR CABLE IN CONDUIT
# #	SPRINKLER SYSTEM HYDRAULIC REFERENCE POINTS # ELEMENT # NODE

ABBREVIATIONS

A B D	AUTOMATIC BALL DRIP
A F F	ABOVE FINISHED FLOOR
B O P	BOTTOM OF PIPE
℄	CENTER LINE
C V	CHECK VALVE
DIA.	DIAMETER
D	DRAIN
DN	DOWN (PENETRATES FLOOR SLAB)
D P	DRY PIPE
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE IN CABINET
F S P	FIRE STANDPIPE
F D	FLOOR DRAIN
FL	FLOOR
FT	FEET
G C	GENERAL CONTRACTOR
G V	GATE VALVE
GAL	GALLONS
G P M	GALLONS PER MINUTE
I D	INSIDE DIAMETER
IN	INCH
MAX	MAXIMUM
MIN	MINIMUM
N C	NORMALLY CLOSED
N I C	NOT IN THIS CONTRACT
N O	NORMALLY OPEN
N T S	NOT TO SCALE
O D	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
P S I	POUNDS PER SQUARE INCH (GAUGE)
P A	PREACTION SPRINKLER
RCV	RISER CONTROL VALVE
SPKR	SPRINKLER
T O P	TOP OF PIPE
T S	TAMPER SWITCH
U O N	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
V	VALVE
W F S	WATER FLOW SWITCH

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No 9395

Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/30/02
100% Design Development	03/01/02

Job No POLSHEK & PARTNERS ARCH 9998
CROMWELL AE 99-114

Scale

Date SEPTEMBER 27, 2002

Title

FIRE PROTECTION NOTES, DETAILS & SCHEDULES

Sheet No

F001

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