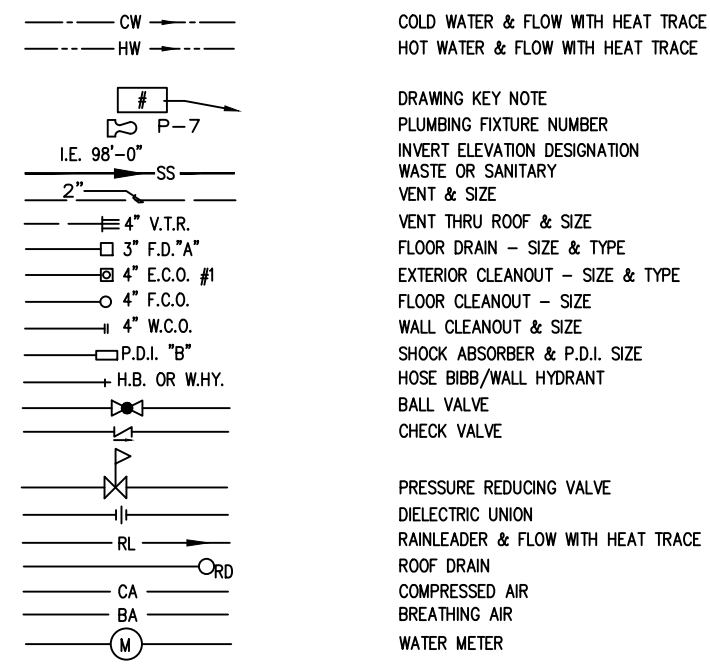


PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	WASTE/ SANITARY	VENT	TRAP	HW	CW	REMARKS
P-1	HANDICAPPED WATER CLOSET	2"	2"	INTEGRAL	---	1"	WALL HUNG, VITREOUS CHINA WITH CORNER AND TUSH VALVE
P-2	HANDICAPPED URINAL	2"	2"	INTEGRAL	---	3/4"	WALL HUNG, VITREOUS CHINA WITH CORNER AND TUSH VALVE
P-3	HANDICAPPED LAVATORY	2"	2"	1 1/4"	1/2"	1/2"	WALL HUNG, VITREOUS CHINA WITH CORNER
P-4	HANDICAPPED ELEC WATER COOLER	2"	2"	1 1/4"	---	1/2"	WALL HUNG, STAINLESS STEEL
P-5	EXTERIOR EMERGENCY SHOWER	---	---	---	---	---	TRAP STANDARD TYPE
P-6	ONE-COMPARTMENT SINK	3"	2"	3"	1/2"	1/2"	TRAP STANDARD TYPE
P-7	INTERIOR EMERGENCY SHOWER (370"X)	3"	2"	3"	---	1 1/2"	SEE DETAIL ON DWG PP-3
<p>3/4" PPF ELECTRIC WATER HEATER</p> <p>370"X 3" FLOOR DRAIN</p> <p>370"X 3" FLOOR DRAIN</p>							

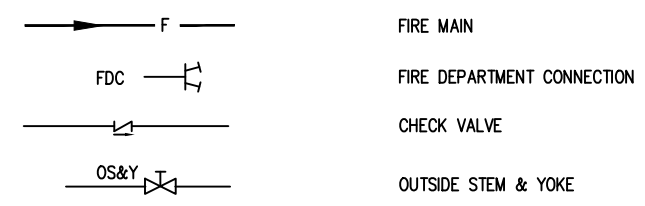
ABBREVIATIONS:

ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	IN	INCHES
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	LAV	LAVATORY
BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
BTU	BRIETH THERMAL UNIT	MIN	MINIMUM
CAF	CAPACITY	NC	NORMALLY CLOSED
CD	CONDENSATE DRAIN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CO	CONNECTION	NO	NORMALLY OPEN
CON	CONDUIT	NTS	NOT TO SCALE
COV	COLD WATER	OS&Y	OUTSIDE SCREW & YOK
CS	COLD WATER	OPS	OPERATIONAL POSITION
DA	DIAMETER	FD	FLOOR DRAINAGE
DL	DOWN COVER	IN	INSTITUTE
DN	DOWN	IN	INSTITUTE
ED	EXTERIOR CLEANOUT	IN	INSTITUTE
ENG	ELECTRIC WATER COOLER	POC	POINT OF CONNECTION
EM	ELECTRIC WATER HEATER	POS	FOOTING PER SQUARE INCH
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FIRE DEPARTMENT CONNECTION	SF	SQUARE FEET
FDD	FLOOR CLEAN OUT	SK	SINK
FDC	FIRE DEPARTMENT CONNECTION	SPEC	SPECIFICATIONS
FDV	FIRE DEPARTMENT VALVE	TS	TRAP STOP
FDR	FLOOR DRAIN	TS & P	TRAP STOP & PRESSURE
FM	FACTORY MUTUAL	TP	TRAP PRIMER
FP	FIRE PROTECTION	TP	TRAP PRIMER
FS	FLOOR SWITCH	TP	TRAP PRIMER LINE
FT	FITTING	TP	TRAP PRIMER LINE
GA	GALLONS	UC	UNDERGROUND
GAL	GALLONS PER MINUTE	UL	UNDERWRITERS LABORATORIES, INC.
GM	GALLONS PER MINUTE	UNO	UNLESS NOTED OTHERWISE
HB	HOSE BIB	V	VENT
HD	HEAD	VTR	VENT THROUGH ROOF
HE	HEAD	W	WATER CLOSET
HW	HOT WATER	WCO	WALL CLEAN OUT
HND	HORIZONTAL	WHT	WALL HORIZONTAL
HZ	HERTZ		

PLUMBING LEGEND:



FIRE PROTECTION LEGEND:



PPF BUILDING FIRE PROTECTION SYSTEM DESIGN NOTES

- THE FIRE PROTECTION SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13. THE MINIMUM DESIGN AREA SHALL BE 3000 SQUARE FEET WITH AN AREA MAINTAINER OF 1.1 FOR A RPI SYSTEM.
- THE SYSTEM DRAIN IS 1000 GPM WITH A HOSE ALLOWANCE OF 500 GPM FOR A TOTAL FLOW OF 1500 GPM. THE DESIGN OF THE BUILDING SHALL ALLOW FOR A PUMP DISTRIBUTION SYSTEM WITH A MAXIMUM PRESSURE REQUIREMENT OF 70 PSI.
- NFPA 13 REQUIRES 30 MINUTES WATER SUPPLY DURATION FOR AN EXTRA HAZARD FACILITY WITH A CENTRAL SLAM STATION FOR A DEMAND OF 1000 GPM. THIS DEMAND TO A MINIMUM STORAGE OF 14,280 GALLONS THERE SHALL BE A MINIMUM OF 15,000 GALLON STORAGE TANK CONNECTED TO THE WATER SUPPLY SYSTEM. THIS TANK SHALL BE SUFFICIENT TO MEET THE STORAGE NEEDS.
- THE PAYLOAD PROCESSING AND AIRLOCK AREAS SHALL BE CLASSIFIED AS EXTRA HAZARD GROUP 1. THE DESIGN DENSITY SHALL BE 25 GPM/1000. THESE AREAS SHALL USE A PRE-ACTION SYSTEM. THE DESIGN OF THE PRE-ACTION SPRINKLER SYSTEM SHALL INCLUDE A PRE-ACTION CONTROL PANEL, SMOKE DETECTORS, MANUAL MECHANICAL ACTIVATION STATIONS, A PRE-ACTION CONTROL VALVE, A COMPRESSED AIR PRESSURIZATION SYSTEM, AND THE PIPING SYSTEM. THE PIPING SYSTEM SHALL BE INSTALLED WITH A CONSTANT SLOPE BACK TO THE PRE-ACTION VALVE FOR PROPER DRAINING AND CORROSION CONTROL. THE SPRINKLER HEADS SHALL HAVE MELTING ALLOYS. THE PIPING SYSTEM SHALL PRESSURE WITH NOT GREATER THAN 5 PSI SUPERSTAGNANT COMPRESSED AIR. A PRESSURE SWITCH SHALL SENSE THE LOSS IN PRESSURE DUE TO AN OPEN SPRINKLER HEAD OR A PIPING LEAK. THE PRE-ACTION CONTROL VALVE SHALL NOT ALLOW WATER TO ENTER THE PIPING SYSTEM UNTIL A FIRE EVENT OCCURS. THIS SENSED LOSS OF PRESSURE SHALL ACTIVATE THE PRE-ACTION CONTROL VALVE. HEAT FROM OTHER COMBUSTION SHALL OPEN THE AFFECTED SPRINKLER HEADS AND ALLOW WATER TO CONTROL THE FIRE.
- THE DEMANDER OF THE BUILDING SHALL BE SPRINKLED WITH A PRE-ACTION SYSTEM CLASSIFIED AS GROUP 1 HAZARD AS DESCRIBED HEREIN.
- SEE DRAWING PP-6 FOR FIRE PROTECTION FLOOR PLAN AND PP-7 FOR FIRE PROTECTION DETAILS.
- F.A.V. TO BE SET TO MEET DESIGN P.S.I. REQUIRED AT HIGHEST SPRINKLER HEAD.

FIRE PROTECTION GENERAL NOTES:

- PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 1991 UNIFORM BUILDING CODE AND ALL APPLICABLE STANDARDS.
- COORDINATE CEILING MOUNTED SPRINKLER HEADS WITH OTHER DEVICES (LIGHTS, DIFFUSERS, ACCESS PANELS, ETC.). SEE ARCHITECTURAL CEILING PLANS FOR LOCATIONS OF ALL OTHER DEVICES.
- ALL MATERIALS AND EQUIPMENT SHALL BE UL APPROVED WHERE APPLICABLE.
- SYSTEM DESIGN SHALL BE HYDRAULICALLY CALCULATED PER NFPA-13.
- HEAD LAYOUT IS DIAGNOSTIC ONLY. SEE PRE-ACTION SPRINKLER SYSTEM SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- SPRINKLERS IN ELECTRICAL AND TELEPHONE ROOMS SHALL BE PROTECTED BY GUARDS.
- SPRINKLERS IN ELECTRICAL EQUIPMENT AND TELEPHONE ROOMS SHALL BE RATED FOR 212 DEGREES.
- SEE SITEWORK PACKAGE DRAWINGS FOR CONTINUATION OF SERVICE FROM 5'-0" OUTSIDE BUILDING.
- VERIFY AND CLEARLY EXAMINE THOSE PORTIONS OF THE BUILDING SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND UTILITIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR DAMAGE TO EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECORDED.
- PROVIDE SPRINKLER HEAD GUARDS ON ALL UP-RIGHT AND PENDANT HEADS.
- PIPING SUPPORTS AND RESTRAINTS SHALL BE SEISMIC ZONE 4 PER UNIFORM BUILDING CODE.

PLUMBING GENERAL NOTES:

- PROVIDE ALL WORK IN ACCORDANCE WITH 1991 UNIFORM PLUMBING CODE AND ALL APPLICABLE STANDARDS.
- SEE REFER DRAWINGS FOR BRANCH PIPING DETAILS AND SIZES NOT SHOWN ON PLAN.
- INVERT ELEVATIONS BASED ON ARCHITECTURAL FINISHED FLOOR ELEVATION OF 100'-0" UNLESS NOTED OTHERWISE. REGARDING INVERT ELEVATION OF SANITARY STACK IS 9'-0" TYPICAL.
- VERIFY AND CLEARLY EXAMINE THOSE PORTIONS OF THE BUILDING SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND UTILITIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR DAMAGE TO EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECORDED.
- SEE SPECIFICATION "PLUMBING FUTURES" FOR ADDITIONAL REQUIREMENTS.
- SEE SPECIFICATION "PLUMBING SPECIALS" AND EQUIPMENT FOR WATER HEATERS, CLEANOUTS, HOSE BIBBS, ETC.
- SEE SPECIFICATIONS FOR HOT AND COLD WATER INSULATION AND FOR HOT AND COLD WATER HEAT TRACE.
- VALVE TAGS SHALL USE THE ARCHITECTURAL ROOM NUMBER SCHEME PLUS ONE ADDITIONAL NUMBER I.E. VALVE #20-1.
- SEE SITEWORK PACKAGE DRAWINGS FOR CONTINUATION OF SERVICE FROM 5'-0" OUTSIDE BUILDING.
- PIPING SUPPORTS AND RESTRAINTS SHALL BE SEISMIC ZONE 4 PER UNIFORM BUILDING CODE.

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 NARROW CAPE, KODIAK ISLAND, ALASKA  
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 PLUMBING AND F.P. LEGEND

DATE: 3-21-97  
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 DRAWN BY: E. KEEL  
 CHECKED BY: H. HOUSER  
 INVT: 1020  
 300122PP-PP-1  
 PROJECT NO.: 300722  
 DRAWING NO.: PP-1  
 SHEET: 01

ALASKA AEROSPACE DEVELOPMENT CORPORATION

