START

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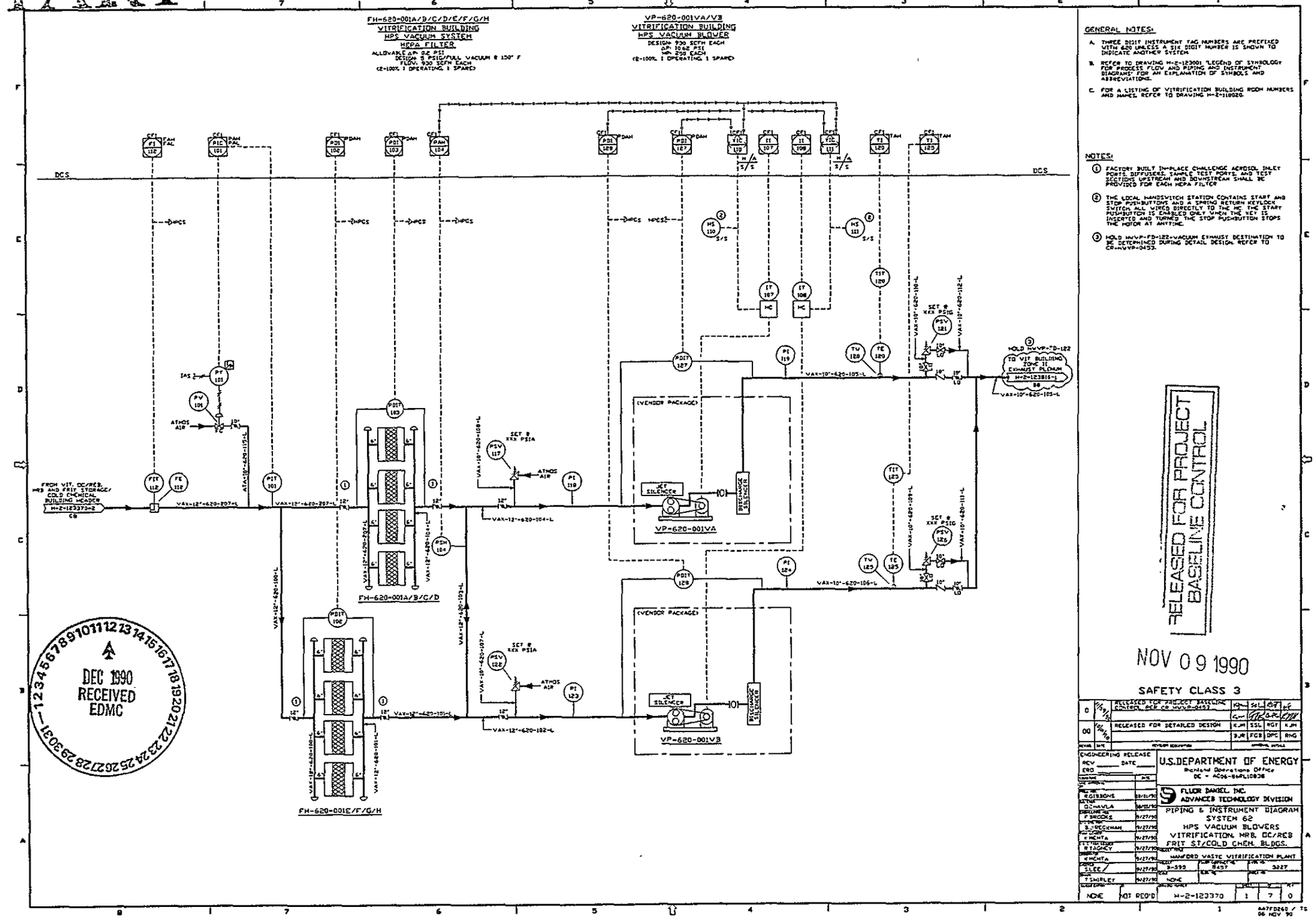
1 of 7

9112210719 5



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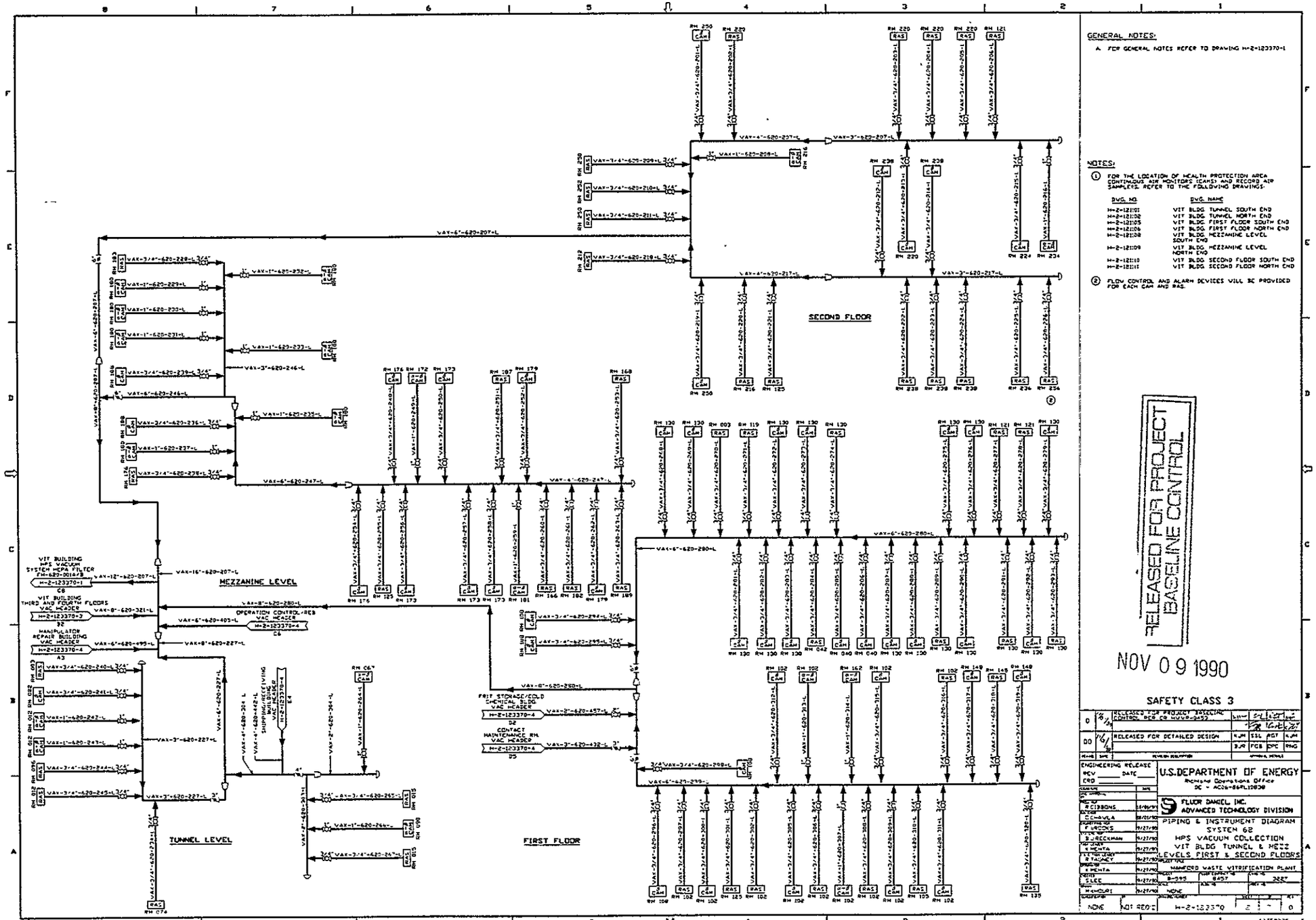
2 of 7



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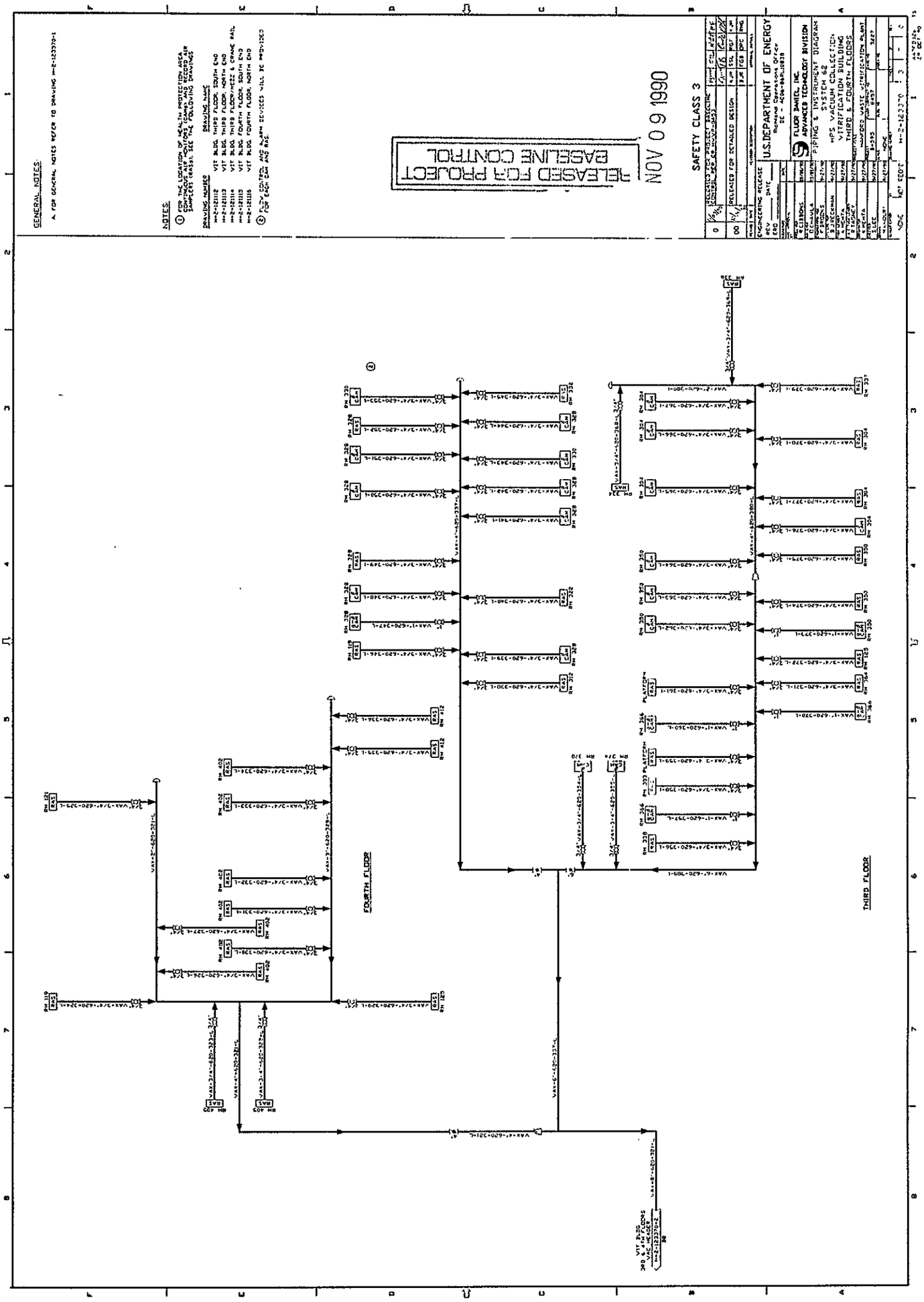
3 of 7



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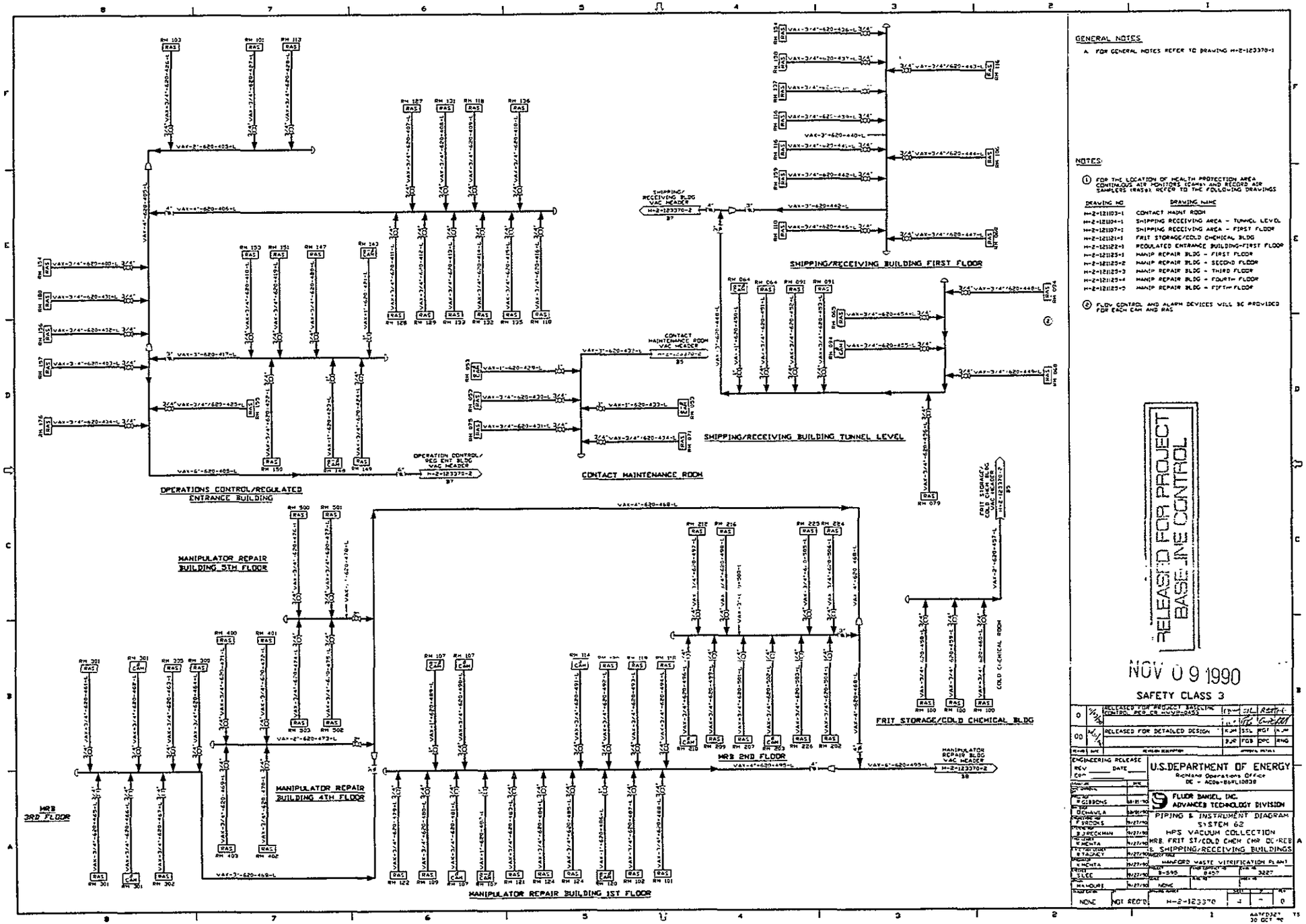


GENERAL NOTES

A. FOR GENERAL NOTES REFER TO DRAWING H-2-123370-1

NOTES:

1. FOR THE LOCATION OF HEALTH PROTECTION AREA CONTINUOUS AIR MONITORS (CAMS) AND RECORD AIR SAMPLERS (RASS) REFER TO THE FOLLOWING DRAWINGS

DRAWING NO	DRAWING NAME
H-2-121103-1	CONTACT MAINT ROOM
H-2-121104-1	SHIPPING RECEIVING AREA - TUNNEL LEVEL
H-2-121107-1	SHIPPING RECEIVING AREA - FIRST FLOOR
H-2-121121-1	FRIT STORAGE/COLD CHEMICAL BLDG
H-2-121122-1	REGULATED ENTRANCE BUILDING-FIRST FLOOR
H-2-121123-1	MANIP REPAIR BLDG - FIRST FLOOR
H-2-121123-2	MANIP REPAIR BLDG - SECOND FLOOR
H-2-121123-3	MANIP REPAIR BLDG - THIRD FLOOR
H-2-121123-4	MANIP REPAIR BLDG - FOURTH FLOOR
H-2-121123-5	MANIP REPAIR BLDG - FIFTH FLOOR

2. FLOW CONTROL AND ALARM DEVICES WILL BE PROVIDED FOR EACH CAM AND RAS

RELEASED FOR PROJECT BASELINE CONTROL

NOV 09 1990

SAFETY CLASS 3

REV	DESCRIPTION	DRN	ENGR	QA
0	RELEASED FOR PROJECT BASELINE CONTROL PER CR RLVP-90-0452	KJM	SSL	PGF
00	RELEASED FOR DETAILED DESIGN	KJM	SSL	PGF

ENGINEERING RELEASE
REV ___ DATE ___
COM ___

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-86RL10838

FLUOR DANIEL INC.
ADVANCED TECHNOLOGY DIVISION

PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM COLLECTION
MRB, FRIT ST/COLD CHEM (MR DC-REG 1) SHIPPING/RECEIVING BUILDINGS

HANFORD WASTE VITRIFICATION PLANT

DESIGN	S.LEE	10/27/90	
DRAWN	S.LEE	10/27/90	
CHECKED	S.MEHTA	10/27/90	
ENGR	S.MEHTA	10/27/90	
PROJECT ENGR	B.TALPACT	10/27/90	
APPROVED	S.MEHTA	10/27/90	
CRITICAL	S.LEE	10/27/90	
MR HOURS	NONE	10/27/90	

NONE	NOT REQ'D	H-2-123370	0

012101
5 of 7

9112210119

FH-620-003A/B
CANISTER STORAGE BUILDING
HPS VACUUM SYSTEM
HEPA FILTER
ALLOWABLE ΔP: 0.2 PSI
DESIGN: 5 PSIG/FULL VACUUM @ 170°F
FLOW: 50 SCFM EACH
(2=100% 1 OPERATING 1 SPARE)

VP-620-003VA/VB
CANISTER STORAGE BUILDING
HPS VACUUM BLOWER
DESIGN: 50 SCFM EACH
ΔP: 10.62 PSI
HP: 30 EACH
(2=100% 1 OPERATING 1 SPARE)

DCS

FH-620-003A

FH-620-003B

VP-620-003VA

VP-620-003VB

(VENDOR PACKAGE)

SILENCER

SILENCER/ SILENCER

TO CANISTER STORAGE BUILDING EXHAUST PLENUM H-2-129883-2 A6

GENERAL NOTES

A FOR GENERAL NOTES REFER TO DWG. H-2-123370-1

NOTES:

1. FOR THE LOCATION OF HEALTH PROTECTION AREA CONTINUOUS AIR MONITORS (CAMS) AND RECORD AIR SAMPLERS (RAS&), REFER TO THE FOLLOWING DRAWINGS

DRAWING NO.	DRAWING NAME
H-2-121118-1	CANISTER STORAGE BLDG - FIRST FLOOR
H-2-121118-2	CANISTER STORAGE BLDG - PARTIAL FIRST FLR

2. FACTORY BUILT IN-PLACE CHALLENGE AEROSOL INLET PORTS DIFFUSERS, SAMPLE TEST PORTS, AND TEST SECTIONS UPSTREAM AND DOWNSTREAM SHALL BE PROVIDED FOR EACH HEPA FILTER

3. THE LOCAL HANDSWITCH STATION CONTAINS START AND STOP PUSH-BUTTONS AND A SPRING RETURN KEYLOCK SWITCH, ALL WIRED DIRECTLY TO THE MC. THE START PUSHBUTTON IS ENABLED ONLY WHEN THE KEY IS INSERTED AND TURNED. THE STOP PUSHBUTTON STOPS THE MOTOR AT ANYTIME

4. FLOW CONTROL AND ALARM DEVICES WILL BE PROVIDED WITH EACH CAM AND RAS

RELEASED FOR PROJECT BASELINE CONTROL

NOV 09 1990

SAFETY CLASS 3

REV	DATE	REVISION DESCRIPTION	APPROVAL INITIALS
0	11/9/90	RELEASED FOR PROJECT BASELINE CONTROL PER CR HVVP-0052	KJH SSL PGT KJH
00	10/4/90	RELEASED FOR DETAIL DESIGN	KJH SSL PGT KJH BJR TGB DPC RMG

ENGINEERING RELEASE
RCV _____ DATE _____
CRD _____

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-86RL10939

FLUOR DANIEL INC.
ADVANCED TECHNOLOGY DIVISION

PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM SYSTEM
CANISTER STORAGE BUILDING

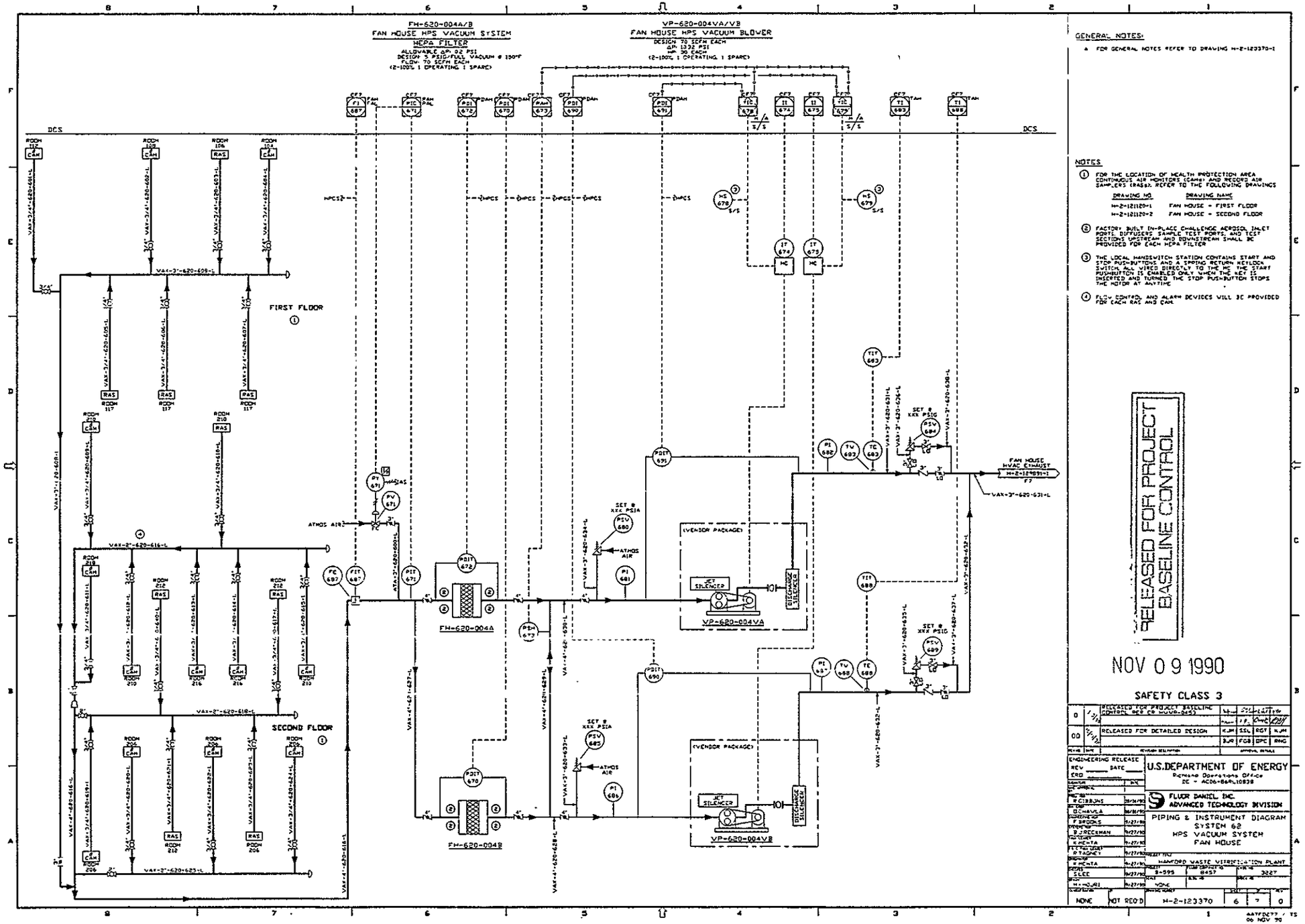
HANFORD WASTE VITRIFICATION PLANT

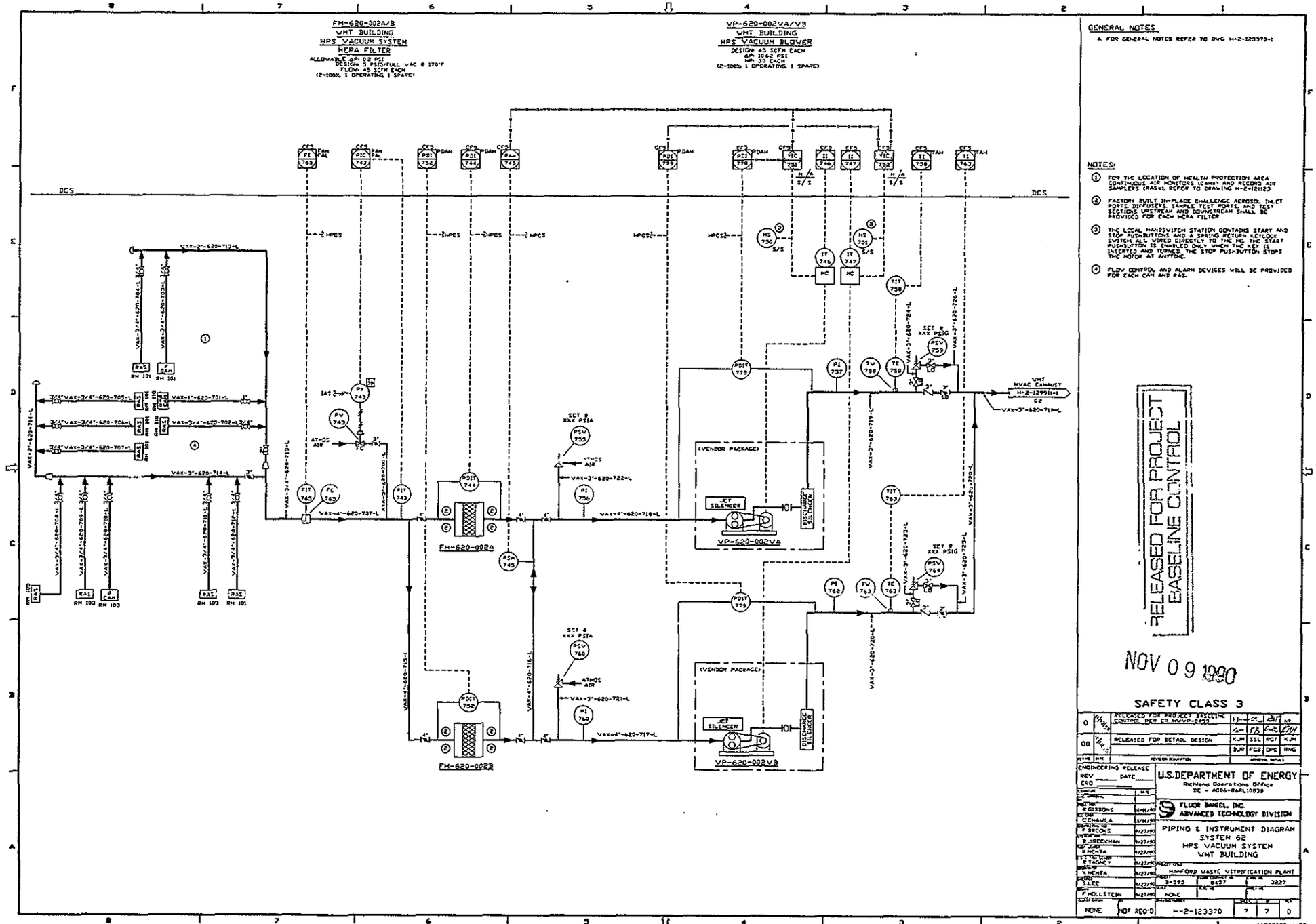
DESIGNED	R MCHTA	9/27/90	
DRAWN	S LEE	9/27/90	
TRACED	T SHIRLEY	9/27/90	
PROJECT	H-395		
PROJECT NO.	8457		
DRAWING NO.	H-2-123370		
SHEET	5		
SHEETS	7		
REV	0		

NONE NOT REQ'D

012101
6 of 7

9111211-7110.0





GENERAL NOTES

A. FOR GENERAL NOTES REFER TO DWG H-2-123370-2

NOTES:

1. FOR THE LOCATION OF HEALTH PROTECTION AREA CONTINUOUS AIR MONITORS (CAMs) AND RECORD AIR SAMPLERS (RASs), REFER TO DRAWING H-2-121182.
2. FACTORY BUILT IN-PLACE CHALLENGE AEROSOL INLET PORTS, DIFFUSERS, SAMPLE TEST PORTS, AND TEST SECTIONS UPSTREAM AND DOWNSTREAM SHALL BE PROVIDED FOR EACH HEPA FILTER.
3. THE LOCAL HANDSWITCH STATION CONTAINS START AND STOP PUSHBUTTONS AND A SPRING RETURN KEYLOCK SWITCH ALL WIRED DIRECTLY TO THE MC. THE START PUSHBUTTON IS ENABLED ONLY WHEN THE KEY IS INSERTED AND TURNED. THE STOP PUSHBUTTON STOPS THE MOTOR AT ANYTIME.
4. FLOW CONTROL AND ALARM DEVICES WILL BE PROVIDED FOR EACH CAM AND RAS.

RELEASED FOR PROJECT BASELINE CONTROL

NOV 09 1990

SAFETY CLASS 3

REV	DATE	DESCRIPTION	ENGR	CHK	APP
0	11/9/90	RELEASED FOR PROJECT BASELINE CONTROL PER CO. NUMBER 0002	KJM	RB	KJM
00	11/9/90	RELEASED FOR DETAIL DESIGN	KJM	SSL	RGT
			BJR	FCB	DPC

ENGINEERING RELEASE
REV ____ DATE ____
CRD ____

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-88RL10930

FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM SYSTEM
WHT BUILDING

HANFORD WASTE VITRIFICATION PLANT

DESIGN	DRAWING NO.	PROJECT NO.	APP. NO.
S.LEE 11/27/90	H-2-123370	8457	3227
CHECK	ENG. NO.	CONTRACT NO.	
P. HOLLSTEIN 11/27/90	NONE		
QUALIFICATION	ENGINEERING RELEASE NUMBER	SHEET	REV
NONE	NOT REQ'D	7	0

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