Schedule of Controlled Devices – Building 410, E.A.A. and C.C.

JOHNSON CONTROLS

DAMPER SCHEDULE

PROJECT/ADDRESS:	The Argonne National Labs Advanced Photon Source Campus 9700 Cass Avenue South Argonne, IL 60439
BUILDING DESIGNATION:	E.A.A. and C.C.
MECHANICAL CONTRACTOR:	
SHEET METAL CONTRACTOR:	
SHEET:	2
CONTRACT:	1390-0009
PREPARED BY:	SF
DATE:	01/06/92
BRANCH:	ARLINGTON HGTS

	TAG			DAMPER INFORMATION					DUCT INFORMATION		ACTUATOR INFORMATION				
	SYSTEM	SERVICE	SECT. LABEL	QTY	FAIL POS.	DAMPER TYPE	DAMPER WIDTH	DAMPER SIZE HEIGHT	REF DET	DUCT SIZE WIDTH	DUCT SIZE HEIGHT	QTY	CODE NUMBER	PILOT	SPRING RANGE	MTG	REMARK
	AHU-401	OA	-	1	N.C.	DCO/VU	72	102		72	102	2	D-3153-1	Y	5-15#	V	
	AHU-401	EA	-	2	N.C.	DCO/VU	36	36		--	--	3	D-3073-1	Y	5-15#	V	
	AHU-401	RA	-	1	N.O.	DCO/VL	48	72		48	72	2	D-3153-1	Y	5-15#	V	
	AHU-401/3	SA	-	1	N.C.	DCO/VL	86	26		86	26	1	D-3153-1	Y	5-15#	V	
	AHU-402	OA	-	1	N.C.	DCO/VU	72	84		72	84	4	D-3153-1	Y	5-15#	V	
	AHU-402	EA	-	1	N.C.	DCO/VU	48	30		48	30	1	D-3153-1	Y	5-15#	V	
	AHU-402	RA	-	1	N.O.	DCO/VL	48	30		--	--	1	D-3153-1	Y	5-15#	V	
	AHU-403	OA	-	1	N.C.	DCO/VU	72	102		72	102	2	D-3153-1	Y	5-15#	V	
	AHU-403	EA	-	2	N.C.	DCO/VU	36	36		--	--	2	D-3153-1	Y	5-15#	V	
	AHU-403	RA	-	1	N.O.	DCO/VL	48	72		48	72	2	D-3153-1	Y	5-15#	V	
	AHU-404	OA	-	1	N.C.	DCO/VU	72	84		72	84	2	D-3073-1	Y	5-15#	V	
	AHU-404	EA	-	1	N.C.	DCO/VU	48	30		48	30	1	D-3153-1	Y	5-15#	V	
	AHU-404	RA	-	1	N.O.	DCO/VL	48	30		48	30	2	D-3153-1	Y	5-15#	V	
	RF-518	EA	-	1	N.C.	DCO/VU	60	60		60	60	1	D-3153-1	Y	5-15#	V	
	RF-518	RA	-	1	N.O.	DCO/VL	60	30		60	30	1	D-3153-1	Y	5-15#	V	
	MEZZ_OA	OA	-	2	N.C.	DCO/VU	18	72		18	72	2	D-3073-2	N	8-13#	V	
	EXH_FANS	EA	-	1	N.C.	DCO/VU	30	30		30	30	1	D-3073-2	N	8-13#	V	
	EH/EAA_COR	TRANS	-	2	N.C.	DCO/VL	62	50		62	50	2	D-3153-1	Y	5-15#	V	
	EH/EAA_COR	TRANS	-	2	N.C.	DCO/VL	63	26		63	26	2	D-3153-1	Y	5-15#	V	
5	AHU-701	OA	-	1	N.C.	OTHERS	XX	XX		XX	XX	1	D-3153-1	Y	5-15#	V	
	AHU-701	EA	-	1	N.C.	OTHERS	XX	XX		XX	XX	1	D-3153-1	Y	5-15#	V	
	AHU-701	RA	-	1	N.O.	OTHERS	XX	XX		XX	XX	1	D-3153-1	Y	5-15#	V	
	V-701	OA	-	1	N.C.	OTHERS	XX	XX		XX	XX	2	D-3153-2	N	8-13#	V	

NOTES:

1. OMITTED
2. OMITTED
3. FIELD VERIFY SIZES.
4. DAMPERS WITHOUT DUCT DIMENSION INFORMATION HAVE BEEN SIZED BASED ON ANL CONTROL DAMPER ENGINEERING STANDARDS. ACTUAL SIZES MAY HAVE TO BE ADJUSTED TO CONFORM WITH FIELD CONDITIONS.

FOR REVISIONS COMPARE WITH DRAWING DATED 4-2-92.

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JOHNSON CONTROLS

VALVE SCHEDULE

PROJECT/ADDRESS:	The Argonne National Labs Advanced Photon Source Campus 9700 Cass Avenue South Argonne, IL 60439
BUILDING DESIGNATION:	Bldg 410 E.A.A. - HVAC
MECHANICAL ENGINEER:	ARGONNE NATIONAL LABS
MECHANICAL CONTRACTOR:	
SHEET:	1
CONTRACT:	1390-0009
PREPARED BY:	SF
DATE:	12/20/91
BRANCH:	ARLINGTON HGTS

	TAG			VALVE INFORMATION									ACTUATOR INFORMATION	
	ITEM	SYSTEM	SERVICE	REF DRWG#	QTY	FAIL POS.	VALVE CODE NUMBER	BODY STYLE	SIZE	Cv	CAPACITY	DIFF PRES	*	ACTUATOR TYPE	RANGE
	4	LTW401	HTG	H951	1	THRU BRDG	V-5844-6	NO-SCR	2	41.0	85.0 GPM	4.3		4R W/PILOT	5-15#
	5	LTW701	HTG	H951	1	THRU BRDG	V-5844-6	NO-SCR	2	41.0	85.0 GPM	4.3		4R W/PILOT	5-15#
	6	LTW401-BP	HTG	H951	1	NO	V-5464-4	NO-SCR	2	41.0	85.0 GPM	4.3		4R W/PILOT	5-15#
	7	LTW701-BP	HTG	H951	1	NO	V-5464-4	NO-SCR	2	41.0	85.0 GPM	4.3		4R W/PILOT	5-15#
	8	AHU-401,3	HTG	H951	2	NO	V-5254-2	NO-SCR	1 1/2	27.5	65.0 GPM	5.5		8R W/PILOT	5-15#
	9	AHU-401,3	CLG	H951	2	NC	V-5462-7	NC-FLG	2 1/2	54.0	98.0 GPM	3.3		5R W/PILOT	5-15#
	10	AHU-402,4	HTG	H951	2	NO	NOTE 2	BALL-SCR	1	3.6	8.0 GPM	4.9		SERIES 39-WC	3-15#
	11	AHU-402,4	CLG	H951	2	NC	NOTE 1	BALL-FLG	3	48.4	60.0 GPM	1.5		SERIES 39-WC	3-15#
5	12	AHU-701	HTG	H008	1	NO	V-3954-1026	NO-SCR	3/4	8.6	19.2 GPM	5.0		V-3000 W/PILOT	5-15#
	13	AHU-701	CLG	H008	1	NC	V-5464-2	NC-SCR	1-1/2	27.5	57.3 GPM	4.3		4R W/PILOT	5-15#
	16	V-701	HTG	H008	1	NO	VTM-TN047-01P	NO-SCR	1/2	4.7	6.9 GPM	2.2		V-3000 W/PILOT	5-15#
6	17	LTW702	HTG	H008	1	THRU BRDG	VTM-TM019-31P	MIX-SCR	1/2	1.9	2.5 GPM	1.7		V-3000 W/PILOT	5-15#

* - PIPING DETAIL - SEE ATTACHED PIPING DETAIL SHEET
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NOTES:

1. VC MODEL '3 CPT51 4 6 PT 150 60V METAL A'
2. VC MODEL '1 CPT94 4 6 PT SE 30V METAL A'

JOHNSON CONTROLS

VALVE SCHEDULE

PROJECT/ADDRESS:	The Argonne National Labs Advanced Photon Source Campus 9700 Cass Avenue South Argonne, IL 60439
BUILDING DESIGNATION:	Bldg 410 E.A.A. - PW
MECHANICAL ENGINEER:	ARGONNE NATIONAL LABS
MECHANICAL CONTRACTOR:	
SHEET:	3
CONTRACT:	1390-0009
PREPARED BY:	SF
DATE:	12/20/91
BRANCH:	ARLINGTON HGTS

TAG				VALVE INFORMATION									ACTUATOR INFORMATION	
ITEM	SYSTEM	SERVICE	REF DRWG#	QTY	FAIL POS.	VALVE CODE NUMBER	BODY STYLE	SIZE	Cv	CAPACITY	DIFF PRES	*	ACTUATOR TYPE	RANGE
1	V-1-1	RE-MV	H902	1	BYP BRDG	SERIES 51-WC	NC-FLG	4	240.0	385.0 GPM	2.6		SERIES 39	5-15#
2	V-1-2	EA-MV	H902	1	BYP BRDG	SERIES 51-WC	NC-FLG	4	240.0	360.0 GPM	2.3		SERIES 39	5-15#
3	V-1-3	RW-MV	H902	1	BYP BRDG	SERIES 51-WC	NC-FLG	4	240.0	445.0 GPM	3.4		SERIES 39	5-15#
4	V-2	SDBY	H902	4	NC	31-108-BRAY	BFLY-FLG	6	567.0	LINE SIZE	---		SERIES 91	2 POS
5	V-3	ISO	H902	3	NC	31-108-BRAY	BFLY-FLG	6	567.0	LINE SIZE	---		SERIES 91	2 POS
6	V-4-1	RE-BP	H902	1	NO	SERIES 51-WC	BALL-FLG	3	.0	385.0 GPM	8.8		SERIES 39	5-15#
7	V-4-2	EA-BP	H902	1	NO	SERIES 51-WC	BALL-FLG	3	.0	360.0 GPM	7.7		SERIES 39	5-15#
8	V-4-3	RW-BP	H902	1	NO	SERIES 51-WC	BALL-FLG	3	.0	445.0 GPM	11.7		SERIES 39	5-15#

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NOTES:

1. VORCHESTER CONTROLS, SERIES 51 TO BE MANUFACTURED IN THREE WAY STYLE AS INDICATED ON VC DOCUMENT PB 903-24. (APPLICABLE TO ITEMS 1-3)

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REV	REVISION-LOCATION	ECN	DATE	BY
6	ADD ICS POINTS			
5	CC REVISION		05/08/93	SF
4	W/COIL DATA		10/30/92	SF
3	GENERAL		07/01/92	SF

FILE: 410SCHED
DCODE: 19930610.1145

DRAWING TITLE
Building 410, E.A.A. and C.C.
Schedule of Controlled Devices
Control Valves and Dampers

REFERENCE DRAWING

SALES ENGR	PROJECT MGR	APPL. ENGR	DRAWN	APPROVED
JP	SF	DCS	BY SF DATE 01/15/92	BY DATE

PROJECT
The Argonne National Labs
Advanced Photon Source Campus
9700 Cass Avenue South
Argonne, IL 60439

JOHNSON CONTROLS
Systems & Services Division

3007 MALMO ROAD
ARLINGTON HEIGHTS
ILLINOIS 60005
708/364-1500 Main
708/808-4438 Eng

CONTRACT NUMBER
91390-0009

DRAWING NUMBER
410_SCHED