AIR HANDLING UNITS (ROOF MOUNTED - (4 PIPE)

MARK	SERV/LOCATION	AIR CAPACITY TOTAL CFM	AIR CAPACITY MIN. OA CFM	AIR CAPACITY ESP in WG	AIR CAPACITY TSP in WG	MIN.COIL AREA FT.SQ	MAX. OUTLET VEL.	COOLING CAPACITY EAT DB/WB	COOLING CAPACITY LAT DB/WB	COOLING CAPACITY TOTAL MBH	COOLING CAPACITY SENS. MBH	COOLING CAPACITY FLOW GPM	HEATING CAPACITY EAT/LAT DB/DB	HEATING CAPACITY TOTAL MBH	HEATING CAPACITY FLOW GPM	ELECTRICAL FAN H.P. SUPPLY	ELECTRICAL FAN H.P. EXH.	ELECTRICAL V / ø	OP. WT. #	MODEL	NOTE(S)
RTU 70-1	BLDG. 70 / ROOF	12780	1400	1.6	3.4	24.4	2500	76/64	55/53	420	295.2	70	67/90	325	26	15	5	480/3	7000	#25T	1,2
RTU 70-2	BLDG. 70 / ROOF	12500	1400	1.6	3.4	24.4	2500	76/64	55/53	411	288.8	70	67/90	320	26	15	5	480/3	7000	#25T	1,2
RTU 70-3	BLDG. 70 / ROOF	4300	650	.8	2.8	7.5	2100	77/65	55/53	126	99.5	21	65/95	143	10	5	2	480/3	4000	#8T	1
RTU 70-4	BLDG. 70 / ROOF	3980	650	.8	2.8	7.5	2100	77/65	55/53	122	96.3	21	65/95	133	10	5	2	480/3	4000	#8T	1
RTU 73-1	BLDG 73 / ROOF	10900	1600	.7	2.5	20.8	2100	77/65	55/53	400	265	68	65/90	300	25	10	5	480/3	7000	#21T	1
RTU 73-2	BLDG 73 / ROOF	7860	800	.7	2.5	14.2	2250	76/64	55/53	260	185	45	70/90	175	15	7.5	3	480/3	5500	#14T	1
RTU 73-3	BLDG 73 / ROOF	10300	1800	1.3	3.3	20.8	2100	77/65	55/53	380	250	65	65/90	285	25	10	5	480/3	7000	#21T	1,2

1. BASED ON TRANE - T SERIES
2. PROVIDE INLET VANES FOR VAV APPLICATION

AIR HANDLING UNITS (4 PIPE)

MARK	SERV/LOCATION	AIR CAPACITY TOTAL CFM	AIR CAPACITY MIN. OA CFM	AIR CAPACITY SUP. FAN ESP	AIR CAPACITY SUP. FAN TSP	AIR CAPACITY RET. FAN ESP	AIR CAPACITY RET. FAN TSP	MIN.COIL AREA FT.SQ	COOLING CAPACITY EAT DB/WB	COOLING CAPACITY LAT DB/WB	COOLING CAPACITY TOTAL MBH	COOLING CAPACITY SENS. MBH	COOLING CAPACITY FLOW GPM	COOLING CAPACITY MAX. Δ Pw	PREHEAT CAPACITY EAT/LAT DB/DB	PREHEAT CAPACITY TOTAL MBH	PREHEAT CAPACITY FLOW GPM	PREHEAT CAPACITY MAX. Δ Pw	HEATING CAPACITY EAT/LAT DB/DB	HEATING CAPACITY TOTAL MBH	HEATING CAPACITY FLOW GPM	HEATING CAPACITY MAX. Δ Pw	ELECTRICAL FAN H.P. SUPPLY	ELECTRICAL FAN H.P. RET.	ELECTRICAL V / ø	OP. WT. #	MODEL	NOTE(S)
AHU 69A-1	BLDG 69A ATTIC	6545	650	.3	1.5	.35	.35	12.3	76/64	55/54	148	132	25	-	-	-	-	-	68/90	159	15	-	5	2	480/3	2200	#12A	1,4
AHU 69A-2	BLDG 69A ATTIC	6930	680	.3	1.5	.4	.4	12.3	76/64	55/54	206	158	28	-	-	-	-	-	68/90	166	15	-	5	2	480/3	2200	#12A	1,4
AHU 69-1	BLDG 69 ATTIC	7640	770	.5	1.5	.4	.4	14.2	76/64	55/54	230	197	40	-	-	-	-	-	68/90	185	15	-	5	2	480/3	2400	#14A	1,4
AHU 69-2	BLDG 69 ATTIC	4020	400	.4	1.5	.3	.3	7.5	76/64	55/54	121	93	20	-	-	-	-	-	68/90	98	8	-	2	1	480/3	1600	#8A	1,4
AHU 69-3	BLDG 69 ATTIC	5410	550	.4	1.0	.3	.3	12.3	76/64	55/54	163	125	28	-	-	-	-	-	68/90	131	11	-	2	1 1/2	480/3	2200	#12A	1,4
AHU 69-4	BLDG 69 ATTIC	5450	550	.4	1.0	.4	.4	12.3	76/64	55/54	165	126	28	-	-	-	-	-	68/90	132	11	-	2	1 1/2	480/3	2200	#12A	1,4
AHU 69-5	WEST MECH. RM/GRND FLR	2975	300	.5	1.75	.5	.5	5.9	76/64	55/54	90	74	15	-	-	-	-	-	68/90	72	6	-	2	3/4	480/3	1020	#6A	1,4
AHU 69-6	EAST MECH. RM./GRND FLR	1015	300	.5	1.5	-	-	2.8	78/65	55/54	34	26	7	-	-	-	-	-	55/90	40	3.5	-	3/4	-	480/3	225	BCHA 36	1,3
AHU 71-1	BLDG 71 ATTIC	6120	620	.5	1.5	.5	.5	12.3	76/64	55/54	185	142	31	-	-	-	-	-	68/90	148	12	-	5	3	480/3	2200	#12A	1,4
AHU 71-2	BLDG 71 ATTIC	9835	1000	.5	1.5	.5	.5	20.8	76/64	55/54	297	228	50	-	-	-	-	-	68/90	240	20	-	5	3	480/3	3000	#21A	1,4
AHU 71-3	BLDG 71 ATTIC	6800	680	.5	1.5	.5	.5	12.3	76/64	55/54	206	157	35	-	-	-	-	-	68/90	165	15	-	5	3	480/3	2200	#12A	1,4
AHU 71-4	BLDG 71 ATTIC	8675	870	.5	1.5	.5	.5	16.8	76/64	55/54	260	198	45	-	-	-	-	-	68/90	210	17	-	5	5	480/3	2900	#17A	1,4
AHU 72-1	BLDG 72 GROUND	940	940	.6	1.5	-	-	2.8	86/74	55/54	60	36	10	-	-	-	-	-	0/70	80	3	-	.75	-	480/3	225	BCHA 36	1,3
AHU 72-2	BLDG 72 GROUND	830	415	.5	1.5	-	-	1.8	80/70	60/59	32	18	8	-	-	-	-	-	40/75	32	1.5	-	.75	-	480/3	200	BCHA 24	1,3
AHU 72-3	BLDG 72 GROUND	1200	600	.5	1.5	-	-	2.8	80/70	60/59	45	26	9	-	-	-	-	-	40/75	46.2	2.5	-	.75	-	480/3	225	BCHA 36	1,3
AHU 72-4	WEST FACE ATTIC	2755	275	.5	1.75	.5	.5	5.9	76/64	55/54	84	70	14	-	-	-	-	-	68/90	67	5.5	-	2	1.5	480/3	1300	#6A	1,4
AHU 72-5	EAST FACE ATTIC	3120	310	.5	1.75	.5	.5	5.9	76/64	55/54	95	78	16	-	-	-	-	-	68/90	76	6.5	-	2	1.5	480/3	1300	#6A	1,4
AHU 73-1	CAFETERIA / M.E.R.	7200	2600	.6	1.5	-	-	14.2	80/67	53/52	360	215	60	-	-	-	-	-	50/90	32	25	-	5	-	480/3	2500	#14	1
AHU 73-2	KITCHEN M.U.A.	1400	1500	.5	2.0	-	-	3.3	90/76	55/54	145	58	20	-	5/35	49.5	55#/HR	-	35/80	75	6	-	1	-	480/3	2500	#3A	1,2

1. BASED ON TRANE @45°F EWT (CLG); 180°F EWT (HTG).
2. PROVIDE STEAM PREHEAT COIL. HEATING CAPACITY BASED ON 20 PSIG STEAM.
3. HV AUX COIL FOR 4 PIPE DPS.
4. PROVIDE ECONOMIZER AND RETURN AIR FAN SECTION.

FAN COILS (4 PIPE)

MARK	SERVICE/LOCATION	CFM	OA	ESP	COOLING MBH TOTAL	COOLING MBH SENS	GPM	MAX. Pw	HEATING MBH	GPM	MAX. Pw	WATTS	ELEC V / ø	OPER. WT. #	TYPE	MODEL	NOTE(S)
HFC 69A-1	ENTRY STAIR	350	-	-	11.2	7.9	2.3	9.0	33.5	2.3	7.4	100	120/1	115	HOR CAB	D 040	1
VFC 69A-2	STAIR, 2ND FLR	320	-	-	10.2	7.4	2.2	8.2	31.2	2.2	6.8	100	120/1	115	VERT CAB	B 040	1
VFC 69/69A-1	69/69A CONN.	260	-	-	7.2	5.3	1.5	3.7	23.9	1.5	3.0	85	120/1	80	VERT CAB	B 030	1
HFC 69/69A-2	69/69A CONN.	290	-	-	7.6	5.7	1.6	4.0	25.9	1.6	3.3	85	120/1	60	HOR CAB	D 030	1
VFC 69/69A-3	69/69A CONN.	260	-	-	7.2	5.3	1.5	3.7	23.9	1.5	3.0	85	120/1	80	VERT CAB	B 030	1
HFC 69/69A-4	69/69A CONN.	450	-	.25	10.8	9.6	3.3	4.6	51.6	3.3	4.1	125	120/1	80	HOR RESC	E 040	1
HFC 69/69A-5	69/69A CONN.	450	-	.25	10.8	9.6	3.3	4.6	51.6	3.3	4.1	125	120/1	80	HOR RESC	E 040	1
VFC 69-1	STAIR, GRND FLR-WEST	320	-	-	10.6	7.4	2.2	8.2	31.2	2.2	6.8	100	120/1	115	VERT, CAB	B 040	1
VFC 69-2	STAIR, 2ND FLR-WEST	320	-	-	10.6	7.4	2.2	8.2	31.2	2.2	6.8	100	120/1	115	VERT, CAB	B 040	1
VFC 70-1	ENTRY VEST. / BLDG 70	320	-	-	10.6	7.9	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT REC	H 040	1
VFC 70-2	ELEV. LOBBY / BLDG 70	190	-	-	4.7	3.8	1.0	6.0	14.7	1.0	3.7	85	120/1	60	VERT REC	H 020	1
VFC 70-3	OFFICE AREA / BLDG 70	320	40	-	10.0	7.9	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT CAB	B 040	1
VFC 70-4	BREAK ROOM / BLDG 70	520	150	-	13.4	7.9	2.3	9.0	39.8	2.8	9.3	125	120/1	130	VERT CAB	B 060	1
VFC 70-5	TOILETS / BLDG 70	190	50	-	4.7	3.8	1.0	6.0	14.7	1.0	3.7	85	120/1	60	VERT CAB	B 020	1
VFC 70-6	STAIR / BLDG 70	190	-	-	4.7	3.8	1.0	6.0	14.7	1.0	3.7	85	120/1	60	VERT CAB	B 020	1
VFC 70-7	FOYER STAIR / BLDG 70	320	-	-	10.6	7.4	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT CAB	B 040	1
VFC 71-1	STAIR, 1ST FLR	320	-	-	10.6	7.4	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT CAB	B 040	1
VFC 71-2	STAIR, 3RD FLR	320	-	-	10.6	7.4	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT CAB	B 040	1
VFC 72-1	WORK OUT-GROUND	260	-	-	7.2	5.3	1.5	3.7	25.9	1.5	3.0	85	120/1	85	VERT CAB	B 030	1
VFC 72-2	CORRIDOR-GROUND	260	-	-	7.2	5.3	1.6	3.7	25.9	1.5	3.0	85	120/1	85	VERT CAB	B 030	1
VFC 72-3	VARIOUS	260	-	-	7.2	5.3	1.5	3.7	25.9	1.5	3.0	85	120/1	85	VERT CAB	B 030	1
VFC 72-4	VARIOUS	350	-	-	8.1	6.4	1.7	3.7	26.2	1.7	3.1	100	120/1	115	VERT CAB	B 040	1
VFC 72-5	CONFERENCE ROOMS	690	-	-	20.1	14.3	4.1	7.8	64.5	4.1	7.0	120	120/1	150	VERT CAB	B 080	1
HFC 72-6	CORRIDOR-1ST FLR	500	-	-	16.0	11.9	3.3	4.6	51.6	3.3	4.1	125	120/1	120	VERT REC	H 060	1,2
VFC 73-1	MAIN FOYER	350	-	-	11.2	7.9	2.3	9.0	33.5	2.3	7.4	100	120/1	80	VERT REC	H 040	1
HFC 73-3	BSMNT. CORR.	500	-	-	10.2	8.4	2.2	6.0	33.8	2.2	5.0	125	120/1	125	HOR CONC	C 060	1,2
VFC 73-4	1ST FLR STAIR	320	-	-	10.6	7.4	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT CAB	B 040	1
VFC 73-5	3RD FLR STAIR	320	-	-	10.6	7.4	2.3	9.0	31.2	2.3	6.8	100	120/1	115	VERT CAB	B 040	1
HFC72/73-1	72/73 CONN.-GRND FLR	340	-	.2	8.6	6.5	2.0	5.2	29.1	2.0	4.3	145	120/1	70	HOR CONC	C 030	1,2
HFC72/73-2	72/73 CONN.-1ST FLR	480	-	.3	10.2	8.4	2.2	5.9	33.8	2.2	5.0	210	120/1	100	HOR CONC	C 040	1,2
HFC72/73-3	72/73 CONN.-2ND FLR	480	-	.3	10.2	8.4	2.2	5.9	33.8	2.2	5.0	210	120/1	100	HOR CONC	C 040	1,2
HFC72/73-4	72/73 CONN.-3RD FLR	480	-	.3	10.2	8.4	2.2	5.9	33.8	2.2	5.0	210	120/1	100	HOR CONC	C 040	1,2
HFC69/73-5	EAST CONN-GRND FLR	475	-	.2	9.7	7.9	2.0	5.4	31.6	2.0	4.6	210	120/1	80	HOR REC	H 040	1,2
HFC69/73-6	EAST CONN.-MAIN FLR	700	-	.2	18.8	14.3	4.0	6.6	60.1	4.0	6.0	320	120/1	120	HOR REC	H 060	1,2,3
HFC69/73-7	EAST CONN.-MAIN FLR	600	-	.2	18.8	14.3	4.0	6.6	60.1	4.0	6.0	320	120/1	120	HOR REC	H 060	1,2,3
HFC71/73-8	WEST CONN.-MAIN FLR	700	-	.2	18.8	14.3	4.0	6.6	60.1	4.0	6.0	320	120/1	120	HOR REC	H 060	1,2,3
HFC71/73-9	WEST CONN.-MAIN FLR	600	-	.2	18.8	14.3	4.0	6.6	60.1	4.0	6.0	320	120/1	120	HOR REC	H 060	1,2,3

1. BASED ON TRANE @ ARI COND. COOLING: EAT=80°FDB/67°FWB EWT=45°F, 10° TD; HEATING: EAT 70°F, EWT 180°F. (2 COILS)
2. PROVIDE HIGH STATIC MOTOR
3. PROVIDE R.A. T-STAT, CONTINUOUS FAN.

ABSORPTION CHILLERS (SINGLE EFFECT)

MARK	SERVICE/LOCATION	TONS	CHILLED WATER (deg F) GPM	EVT	LVT	P.D.	PASS	CONDENSER/ABSORBER GPM	EVT	LVT	P.D.	PASS	STEAM #/HR	PSIG	PUMP HP	VOLT/ø	OPER WT.	MODEL	NOTE(S)
ABS-1	MAIN M.E.R.	255	600	54	44	11.5	3	920	85	101	25	1+3	4850	13.0	7.5	480/3	19150	ABSC-256	1
ABS-2	MAIN M.E.R.	255	600	54	44	11.5	3	920	85	101	25	1+3	4850	13.0	7.5	480/3	19150	ABSC-256	1

1. BASED ON TRANE

CABINET HEATERS

MARK	SERVICE/LOCATION	CFM	OA	ESP	HEATING MBH	GPM	MAX. Pw	WATTS	ELEC V / ø	OPER. WT. #	TYPE	MODEL	NOTE(S)
CUH73-1	BSMNT / BLDG 73	380	-	-	21.7	1.0	1.1	85	120/1	115	V CAB,SLPTOP	B040	1
CUH73-2	BSMNT / BLDG 73	380	-	-	21.7	1.0	1.1	85	120/1	115	V CAB,SLPTOP	B040	1
CUH73-3	REAR ENRTRY / BLDG 73	300	-	-	23.1	1.0	1.3	65	120/1	100	V FULLY REC.	H030	1

1. BASED ON TRANE - EAT 70°F, EWT 180°F.

COOLING TOWER

MARK	SERV/LOCATION	GPM	RANGE EWT	RANGE LVT	APPR.	CFM	ELECT. CHAR. FAN HP	ELECT. CHAR. FAN HTRS.	V/ø	OPER. WEIGHT	MODEL	NOTE(S)
CT-1	AT GRADE	1840	101.5	85	9°	217,400	2@ 20	2@12KW	480/3	35,000	33373-2	1

1. BASED ON BALTIMORE AIR COIL @76°FWB, DOUBLE CELL.

HEAT EXCHANGER (STEAM / WATER)

MARK	SERV/LOCATION	NET MBH	EWT	LWT	GPM	MAX. Δ Pw	DIA X L	PASSES	SQ.FT HTG. SURF.	MODEL	NOTE(S)
HEX-1	HTG WTR/M.E.R.	10,600	155°	185°	720	3.2	16 X 72	2	225.7	WS-1606	1
HEX-2	DHW / M.E.R.	702	40°	180°	10	< 1.0	6 X 48	4	18.3	WSX-0604	1,2

1. BASED ON ARMSTRONG @18 PSIG STEAM.
2. ALL BRONZE, DOUBLE WALL CONSTRUCTION FOR DHW SERVICE.

PUMPS

MARK	SERVICE/LOCATION	TYPE	FLOW GPM	THD FT.	SIZE	RPM	MOTOR HP	ELEC V / ø	MODEL	NOTE(S)
PCHVP-1	PRIM. CHV / MAIN M.E.R.	BMTD	600	30	6X5X10	1200	7.5	480/3	4030	1
PCHVP-2	PRIM. CHV / MAIN M.E.R.	BMTD	600	30	6X5X10	1200	7.5	480/3	4030	1
PHVP-1	PRIM. HV / MAIN M.E.R.	BMTD	360	20	5X4X8V	1200	3	480/3	4030	1,2
PHVP-2	PRIM. HV / MAIN M.E.R.	BMTD	360	20	5X4X8V	1200	3	480/3	4030	1,2
CVP-1	COND. WTR / MAIN M.E.R.	BMTD	920	75	6X5X10	1800	25	480/3	4030	1
CVP-2	COND. WTR / MAIN M.E.R.	BMTD	920	75	6X5X10	1800	25	480/3	4030	1
SCHVP-69/72	SEC. CHV / MAIN M.E.R.	BMTD	345	100	4X3X11.5	1800	15	480/3	4030	1,3
SCHVP-70/71	SEC. CHV / MAIN M.E.R.	BMTD	340	100	4X3X11.5	1800	15	480/3	4030	1,3
SCHVP-73	SEC. CHV / MAIN M.E.R.	BMTD	280	45	4X3X8	1800	5	480/3	4030	1,3
FUTURE BLD	SEC. CHV / MAIN M.E.R.	BMTD	-	-	-	-	-	-	-	4
SHVP-69/72	SEC. HV / MAIN M.E.R.	BMTD	224	100	4X3X10	1800	10	480/3	4030	1,3
SHVP-70/71	SEC. HV / MAIN M.E.R.	BMTD	161	100	3X2.5X10	1800	7.5	480/3	4030	1,3
SHVP-73	SEC. HV / MAIN M.E.R.	BMTD	160	45	3X2.5X8	1800	3.0	480/3	4030	1,3
FUTURE BLD	SEC. CHV / MAIN M.E.R.	BMTD	-	-	-	-	-	-	-	4

1. BASED ON ARMSTRONG
2. PUMPS OPERATE IN PARALLEL.
3. PUMP MOTOR SHALL BE FOR INVERTER DUTY
4. N.I.C.

HOT WATER UNIT HEATERS (HW)

MARK	SERVICE/LOCATION	CFM	CAPACITY MBH	GPM	ELEC V / ø	MAX. Δ Pw	MOTOR HP	MODEL	NOTE(S)
UH 69A-1	ATTIC MECH. RM	1790	630	5	120/1	< 1.0	1/6	122-P	1
UH 69-1	MECH RMS / GRND FLR	280	4.0	1.0	120/1	< 1.0	1/25	18-S	1
UH 69-2	ATTIC-WEST MECH RM	2620	90.8	7.5	120/1	< 1.0	1/6	166-P	1
UH 69-3	ATTIC-EAST MECH RM	1528	52.0	4.0	120/1	< 1.0	1/8	102-P	1
UH 70-1	MECH RM / BLDG 70	280	4.0	1.0	120/1	< 1.0	1/25	18-S	1
UH 71-1	MECH RM / 1ST FLR	280	4.0	1.0	120/1	< 1.0	1/25	18-S	1
UH 71-2	ATTIC-EAST MECH. RM	2620	90.8	7.5	120/1	< 1.0	1/6	166-P	1
UH 71-3	ATTIC-WEST MECH. RM	1528	52.0	4	120/1	< 1.0	1/8	102-P	1
UH 72-1	ATTIC-MECH. RM	2630	90.8	7.5	120/1	< 1.0	1/6	166-P	1
UH 73-1	M.E.R. / BLDG 73	815	27.4	3.0	120/1	< 1.0	1/20	60-S	1
UH 73-2	STORAGE / BSMNT 73	543	14.3	1.5	120/1	< 1.0	1/20	38-S	1
UH 73-3	STORAGE / BSMNT 73	543	12.0	1.0	120/1	< 1.0	1/20	38-S	1
UH 73-4	SPRKLR. STOR / BSMNT 73	315	6.0	1.0	120/1	< 1.0	1/25	20-S	1

1. BASED ON TRANE @180° EWT WITH LOUVER FIN OR LOUVER CONE DIFFUSER AS APPROPRIATE.

FINNED TUBE RADIATION

MARK	SERVICE/LOCATION	BTU/FT	ELEMENT MAT	ELEMENT TUBE	ELEMENT SIZE	ELEMENT FPI	ENCLOSURE TYPE	ENCLOSURE HT	MODEL	NOTE(S)
XX	BSMNT 69A	700	ALUM	COPPER	3/4	40	EXPANDED METAL	-	-	1
XX	-	-	-	-	-	-	-	-	-	1

XX — TYPE / ACTIVE LENGTH

1. BASED ON STERLING

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RENOVATION AND RESTORATION OF CENTER GENERAL COMPLEX

FOR
THE STATE OF RHODE ISLAND
DEPARTMENT OF LABOR AND TRAINING
NEW HEADQUARTERS BUILDING
PONTIAC AVENUE
CRANSTON, RHODE ISLAND

CAI CONSULTING ENGINEERS
CATAUDELLA ASSOCIATES, INC.
1223 MINERAL SPRING AVENUE
NORTH PROVIDENCE, RI 02904
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7/24/98

No.	REVISIONS	DATE

TITLE: HVAC SCHEDULES

SA Job No. 97112	GCA Job No. 3940
DRAWN: XX	DATE:
CHECKED: JSC	DRAWING: NO SCALE

L. S. CATAUDELLA, NO. 3694, REGISTERED PROFESSIONAL ENGINEER

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