

New Water Cooled Chiller																					
Tag	Location	Manufacturer	Model #	Type	Fluid	General Data			Evaporator Data			Condenser			Electrical Data					Efficiency	Notes
						Capacity Tons (nom)	Capacity Tons	Compressors	Min. - Max. Flow (GPM)	EW T (F)	LWT (F)	Min. - Max. Flow (GPM)	EW T (F)	LWT (F)	Volts	Phase	Hertz	MCA	MOPD		
CH-1	F146	Trane	CVHS0250	Centrifugal	Water	250	200	1	400	56	44	600	85	95	460	3	60	197.55	300	NPLV- 0.367	
CH-2	F146	Trane	CVHS0250	Centrifugal	Water	250	200	1	400	56	44	600	85	95	460	3	60	197.55	300	NPLV- 0.367	
Notes: Meets ASHRAE Standard 90.1-2010 Efficiency																					

Computer Room Air Conditioner Schedule												
EVAPORATOR					Electrical Data					EFFICIENCY		
Services	Tag	Manufacture	Model #	Total CFM	Hertz	Phase	Volts	HP	FLA			
Sever Room	AC-1	Liebert	MMD60K7AHELO	2500	60	3	460	1.5	19.8	SCOP 2.25		
Sever Room	AC-2	Liebert	MMD60K7AHELO	2500	60	3	460	1.5	19.8	SCOP 2.25		
NOTES: MEETS ASHRAE 90.1-2010 EFFICIENCY STANDARDS												




Computer Room Condenser Unit Schedule									
EVAPORATO		AIR COOLED CONDENSING UNIT							
Services	Tag	Manufacture	Model #	FLA	Electrical Data			EFFICIENCY	
					Hertz	Phase	Volts		
Sever Room	CU-1	Libert	PFH067A-AH7	11.7	60	3	460	SCOP 2.25	
Sever Room	CU-2	Libert	PFH067A-AH7	11.7	60	3	460	SCOP 2.25	
NOTES: MEETS ASHRAE 90.1-2010 EFFICIENCY STANDARDS									

Pump Schedule														
Tag	Location	Manufacture	Service	Type	Fluid Type	Flow		Motor Data					Remarks	
						GPM	FT	Volt	Phase	Hz	RPM	HP		
CWP-1	F146	Bell & Gossett	Chilled Water Primary	Centrif. End Suction	Water	400	131	460	3	60	1800	25	3G Series 1510 Pump w/ Premium Efficiency Motor	
CWP-2	F146	Bell & Gossett	Chilled Water Primary	Centrif. End Suction	Water	400	131	460	3	60	1800	25	3G Series 1510 Pump w/ Premium Efficiency Motor	
TP-1	F143	Bell & Gossett	Tower Water	Centrif. End Suction	Water	600	40	460	3	60	1800	25	Trim Existing Pump Impeller to 10.125"	
TP-2	F143	Bell & Gossett	Tower Water	Centrif. End Suction	Water	600	40	460	3	60	1800	25	Trim Existing Pump Impeller to 10.125"	
Notes:														

Existing Refrigerant Leak Exhaust Fan Schedule												
Tag	Location	Service	Type	Fan Data				Motor Data				Notes
				CFM	SP Inch	RPM	BHP	MHP	Volt	Phase	HZ	
EF-1	Roof	F146	Centrifugal	1975	0.375	1725	0.629	0.5	460	3	60	
Notes: Existing fan is sized for a 320 ton chiller. The new replacement chiller will be 200 tons. The existing Refrigerant Leak exhaust fan exceeds the new chiller requirements.												

MINIMUM PIPE INSULATION THICKNESS								
HEATING HOT WATER								
STEAM, STEAM CONDENSATE, HOT WATER HEATING AND DOMESTIC WATER SYSTEMS								
Fluid Operating Temperature RANGE (F°) and USAGE	Conductivity btu-in/(h*ft²*F°)	Mean Rating Temp F°	<1"	1" to <1.5"	1.5"-<4"	4 to <8	≥8	NOTES:
<350° F	0.32-0.34	250	4.5	5.0	5.0	5.0	5.0	
251° F - 350° F	0.29-0.32	200	3.0	4.5	4.5	4.5	4.5	
201° F - 250° F	0.27-0.30	150	2.5	2.5	3.0	3.0	3.0	
141° F - 200° F	0.25-0.29	125	1.5	2.0	2.0	2.0	2.0	
105° F - 150° F	0.22-0.28	100	1.0	1.5	1.5	1.5	1.5	
COOLING SYSTEMS								
CHILLED WATER, BRINE, AND REFRIGERANT								
40° F-60°F	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0	
<40° F	0.20-0.26	50	0.5	1.0	1.0	1.0	1.5	
INSULATION MATERIALS								
CHILLED WATER	FOAMGLASS	30 MIL POLY						
HEATING WATER	FIBERGLASS	30 MIL POLY						
FRESH WATER	FOAMGLASS	30 MIL POLY						
CONDENSER WATER	FOAMGLASS	30 MIL POLY						

DUCT SYSTEMS INSULATION SCHEDULE			
DUCT LOCATION	COMBINED HEATING AND COOLING SUPPLY DUCTS INSULATION INSTALLED R-VALUE (H-FT²-F°)/BTU	RETURN INSULATION INSTALLED R-VALUE (H-FT²-F°)/BTU	NOTES:
EXTERIOR OF BUILDING	6.0	3.5	
VENTILATED ATTIC	6.0	3.5	
UNVENTTED ATTIC ABOVE INSULATED CEILING	6.0	3.5	
UNVENTED ATTIC W/ROOF INSULATION	3.5	-	
UNCONDITIONED SPACE	3.5	-	
INDIRECTLY CONDITIONED SPACE	-	-	
BURIED	3.5	-	

CAD Filename. All Drawings.dwg		
ORIGINAL SHEET SIZE: D SIZE 36x24		DATE REVISED
ADDITIONS AND REVISIONS		
35% DESIGN DRAWINGS		10/04/2013
65% DESIGN DRAWINGS		11/27/2013
65% DESIGN DRAWINGS – REVISION 		1/10/2014
100% DESIGN DRAWINGS		2/21/2014
 3222 KENNICOTT AVE. ARLINGTON HEIGHTS, IL 60004 (312) 649-7980 / FAX: (312) 337-1944 KROESCHELL.COM		 Donley-Kirin Joint Venture 515 DOVER RD. ROCKVILLE, MD 20850 (301) 315-7456 / FAX: (240) 453-8722 DONLEYKIRIN.COM
MECHANICAL EQUIPMENT SCHEDULE 19TH MEDICAL SUPPORT GROUP JACKSONVILLE, AR REPAIR OF BUILDING INFRASTRUCTURE SYSTEMS		
DRAWN BY CHECKED BY APPROVED BY SCALE DATE	JWT BJK — SEE PAGE OCTOBER 2013	JOB No. 14554 Sheet No. M-800

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