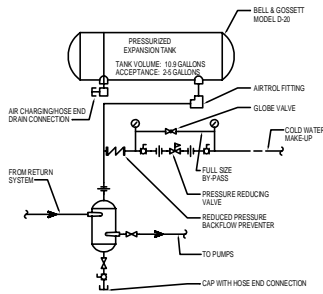
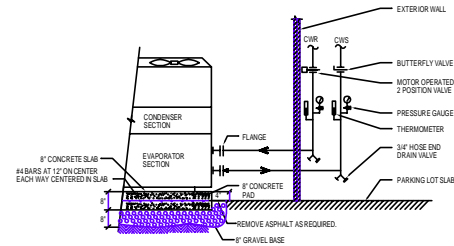


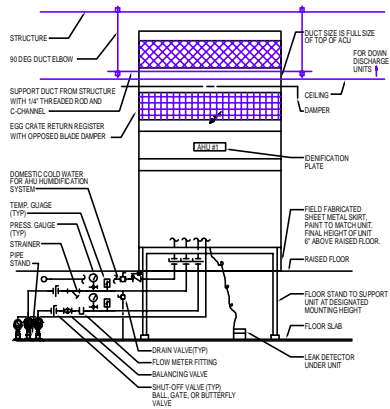
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND SHEET DIMENSIONS OF ALL DRAWING IS CORRECT. NO VARIATIONS OR MODIFICATIONS TO SHOW FROM ORIGINAL. BE RESPONSIBLE FOR ANY MODIFICATIONS APPROVAL. ALL PROVIDED TABLES OF THIS DRAWING ARE SUPPLEMENTARY TO THE MECH SCHEDULE. ALL DIMENSIONS AND SPECIFICATIONS SHALL BE THE PROPERTY OF MORRISON HERSHFIELD CORPORATION.



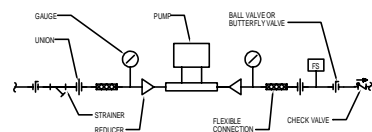
XXX AUTOMATIC FILL & EXPANSION TANK PIPING DIAGRAM
SCALE: NONE



XXX CONNECTIONS TO CHILLER
SCALE: NONE



XXX COMPUTER ROOM AIR HANDLING UNIT
SCALE: NONE



XXX IN-LINE CIRCULATING PUMP DIAGRAM
SCALE: NONE

AIR COOLED CHILLER SCHEDULE																										
DESIG	LOCATION	SYSTEM	TYPE	CHILLED WATER SIDE					CONDENSER FANS				ELECTRICAL				VIBRATION & SEISMIC SPEC. TYPE		MIN. STATIC DEFLECTOR	BASIS OF DESIGN		REMARKS				
				NOMINAL TONS	GPM	EWI	LWT	PASS	PD FT	AMB AIR	QTY	HP	FLA	MAX KW	FLA	LRA	V-HZ	STARTER TYPE		CONT. VOLT	BASE		VIB. ISOL.	SEISMIC RESTRAINT	MAKE	MODEL
CHER-1	OUTSIDE	CHILLED WATER	SCREW	250	532	55	41	2	149	95	12	3	4.0	292.9	452.0	280	480/90	VYDELTA	120	-	-	-	-	YORK	YCS (BUCEAL)	⊙

- ⊙ PROVIDE CONTROL INTERFACE.
- ⊙ PUMPS FUSED DISCONNECT.

DESIGNER NOTES:

PUMP SCHEDULE																		
DESIG	LOCATION	SYSTEM	TYPE	COUPLING	CAPACITY GPM	TOTAL DYNAL HEAD FT	MIN NPSH FT	MIN EFF %	MOTOR			VIBRATION & SEISMIC SPEC. TYPE		MIN. STATIC DEFLECTOR	BASIS OF DESIGN		REMARKS	
									HP	RPM	V-HZ	BASE	VIB. ISOL.		SEISMIC RESTRAINT	MAKE		MODEL
P-1&2	SEE PLAN	CHILLED WATER	IN-LINE	SPLIT	266	35	8.3	55	5	1800	480/90	-	-	-	-	ARMSTRONG	SG-98 SERIES 4302 6668	⊙

- ⊙ PROVIDE VFD FOR EACH PUMP.
- ⊙ PUMPS OPERATE IN PARALLEL.

DESIGNER NOTES:

CHILLED WATER COMPUTER ROOM ACU																					
DESIGNATION	AREA SERVED	FAN DATA			CHIL COOLING COIL DATA			WHR REFRIG COIL DATA			HANDLING DATA		AIR FILTER DATA			VOLT	PHASE	MAKE	MODEL	REMARKS	
		CFM	ESP (IN WG)	MOTOR QTY/HP	ENT. AIR TEMP (DB)	TOTAL CAP. (MBTU)	SENSIBLE CAP. (MBTU)	WATERFLOW @ 45°F (FT W.G.)	WFO (FT W.G.)	WATERFLOW @ 180°F (FT W.G.)	WFO (FT W.G.)	TYPE	TOTAL CAP. (LBS)	KW	QUANTITY						EFFICIENCY
CRACU-1	SERVERS	16350	0.5	1/10	75	61	586.1	496.1	120	40.7	-	-	STEAM GEN CHANISTER	22	7.2	5	30	480	3	EBERT	BELLIE SYSTEM 1
CRACU-2	SERVERS	16350	0.5	1/10	85	69	812.7	562.0	120	40.7	-	-	STEAM GEN CHANISTER	22	7.2	5	30	480	3	EBERT	BELLIE SYSTEM 1
CRACU-3,4	SERVERS	9,000	0.5	2/4	75	61	248.8	230.7	56	17.8	-	-	STEAM GEN CHANISTER	10.1	5.3	3	30	480	3	APC	FM 50C
CRACU-5,6,7	SERVERS	9,000	0.5	2/4	85	69	375.8	294.4	60	22.4	-	-	STEAM GEN CHANISTER	10.1	5.3	3	30	480	3	APC	FM 50C

- ⊙ PROVIDE CONDENSATE PUMP KIT & WATER LEAK DETECTOR FOR EACH UNIT.
- ⊙ PROVIDE FLOOR STAND.
- ⊙ PROVIDE INTEGRAL PROGRAMMABLE MICROPROCESSOR BASED THERMOSTAT.
- ⊙ PROVIDE UP FLOW UNIT.
- ⊙ PROVIDE DISCONNECT.
- ⊙ INTERLOCK WITH BAS.
- ⊙ PROVIDE DOWN FLOW UNIT.
- ⊙ PROVIDE INTEGRAL SUPPLY AND RETURN AIR DEVICE.

7	
6	
5	
4	
3	
2	
1	

0 9.19.03 PRELIMINARY SKETCHES
No. Date Action



RTKL
RTKL ASSOCIATES, INC.
901 SOUTH BOSTON STREET, BALTIMORE, MD 21201-3300
Tel: (410) 537-8000 Fax: (410) 278-2138

McKenney's
Mechanical Contractors
1006 MORELAND RD. BLDG. ATLANTA, GA 30316-2299
Tel: (404) 622-0000 Fax: (404) 621-8800

MORRISON HERSHFIELD
44 PRINCETON CENTER E. ATLANTA, GA 30306-1600
Tel: (770) 378-3000 Fax: (770) 378-6001

Project: **CEETHERM LAB**
575 14TH STREET
ATLANTA, GEORGIA 30332-0620

Drawing Title:
NEW MECH DETAILS AND SCHEDULES

Scale: NONE
Project No. 01639 CE
Designer: ZSM
Date: 10/14/03
Drawn By: ZSM
Checked By: ZSM
Drawing File: Client Approval

Issue No. 0
Drawing No. M-2.0