PUMP SCHEDULE

ITEM	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	TYPE	GPM	TOTAL HEAD FT. WG.	MAXIMUM PUMP RPM	MAXIMUM MOTOR HP	MAXIMUM BREAK HP	DUTY POINT BREAK HP	ELECTRICAL DATA VOLT	PHASE	HZ	VIBRATION ISOLATION TYPE	MINIMUM STATIC DEFL. INCHES	BASE TYPE	OPERATING WEIGHT LB	NOTES
CHWP-1	BELL & GOSSETT SERIES 1510 3BC	CENTRAL PLANT	CHW-P	END SUCT. CENTRIF.	290	23	1150	3	– –	– –	460	3	60	2	1.0"	B	370	INSTALL ON INERTIA BASE; PREMIUM EFFICIENCY
CHWP-2	BELL & GOSSETT SERIES 1510 6BC	CENTRAL PLANT	CHW-P	END SUCT. CENTRIF.	1100	28	1150	15	10.45	9.41	460	3	60	2	1.0"	B	655	INSTALL ON INERTIA BASE; PREMIUM EFFICIENCY
CTP-1	BELL & GOSSETT SERIES 1510 4BC	CT YARD	CDW	END SUCT. CENTRIF.	400	55	1750	10	9.1	7.30	460	3	60	N/A	N/A	N/A	390	PREMIUM EFFICIENCY
CTP-2	BELL & GOSSETT SERIES 1510 6BC	CT YARD	CDW	END SUCT. CENTRIF.	1300	55	1750	30	27.17	23.72	460	3	60	N/A	N/A	N/A	855	PREMIUM EFFICIENCY
CHWP-3	BELL & GOSSETT SERIES 1510 5G	CENTRAL PLANT	CHW-S	END SUCT. CENTRIF.	625	125	1750	40	34.4	25.63	460	3	60	2	1.0"	B	1075	INSTALL VFD W/ BYPASS; INSTALL ON INERTIA BASE
CHWP-4	BELL & GOSSETT SERIES 1510 5G	CENTRAL PLANT	CHW-S	END SUCT. CENTRIF.	625	125	1750	40	34.4	25.63	460	3	60	2	1.0"	B	1075	INSTALL VFD W/ BYPASS; INSTALL ON INERTIA BASE
SP-1	TEEL	SUMP	CT FLOOR SINK	SUBMERSIBLE	80	35	– –	1	– –	– –	230	1	60	N/A	N/A	N/A	70	

WATER CHILLER (WATER COOLED)

ITEM	LOCATION	MANUFACTURER & MODEL NO.	CAPACITY IN TONS	REF.	COOLER GPM	EWT	LWT	PASS.	ΔP_W	CONN	CONDENSER GPM	EWT	LWT	PASS.	ΔP_W	CONN	COMPRESSOR QTY	RLA	INPUT KW	OIL PUMP	VOLTAGE	OPERATING WEIGHT (lbs)	REMARKS
CH 1	CENTRAL PLANT	(E) CARRIER 30HXC186	173	R134a	290	56	42	2	6	5"	380	75	89	2	9.6	5"	2	–	115.5	–	460	7,845	EXISTING CHILLER
CH 2	CENTRAL PLANT	CARRIER 19XRV6060	640	R134a	1100	56	42	2	8.2	5"	1270	75	89	2	7.9	5"	1	–	351	–	460	25,700	WITH FACTORY MOUNTED VFD

NOTE:

THE CHILLERS SELECTION CRITERIA IS BASED ON VARIABLE CHILLED WATER PUMPING. CONTROL THE PUMPS VFD'S TO PROVIDE THE MINIMUM REQUIRED GPM BY CHILLER MANUFACTURER.

COOLING TOWER

ITEM	LOCATION	MANUFACTURER & MODEL NO.	CAPACITY IN GPM	EWT	LWT	AMBIENT DB	AMBIENT WB	FAN H.P	VOLTAGE	PH	OPERATING WEIGHT (lbs)	REMARKS
CT 1, CT 2, CT 3	CENTRAL PLANT	BALTMORE AIR COIL 15270-3	550 PER CELL	89	75	95	67	20	460	3	32,820 (10,940 PER CELL)	PROVIDE BOTTOM OUTLET PUMP SUCTION CONNECTION. PROVIDE MIN. 24" WATER ELEVATION TO PUMP CENTERLINE. PROVIDE W/MOTOR OUTSIDE OF AIR STREAM. PROVIDE FANS WITH VFD

EXPANSION TANK

ITEM	LOCATION	MANUFACTURER & MODEL NO.	CAPACITY IN GAL	WEIGHT (lbs)	REMARKS
ET 3	CENTRAL PLANT	B & G D-180	90	1040	

AIR SEPARATOR

ITEM	LOCATION	MANUFACTURER & MODEL NO.	CAPACITY IN GPM	WEIGHT (lbs)	REMARKS
AS 2	CENTRAL PLANT	B & G RL-8G	1900	400	

EXHAUST FAN

ITEM	LOCATION	MANUFACTURER & MODEL NO.	SERVICE	CFM	STATIC PRESSURE	FAN RPM	HP	BREAK HP	WEIGHT	REMARKS
EF-1	CENTRAL PLANT	COOK 270 ACRUB	CHILLER ROOM	4000	0.5	501	1	.561	342	SEE NOTE 1, MOUNTED ON ROOF CURB; INSTALLED WITH BACKDRAFT DAMPER

NOTE 1

PROVIDE VFD WITH THE EXHAUST FAN AND CONNECT TO THE EXISTING REFRIGERANT MONITORING SYSTEM. UPON RECEIVING SIGNAL FOR DETECTING REFRIGERANT, THE EXHAUST FAN SHALL OPERATE AT FULL CAPACITY. AT NORMAL OPERATION, THE FAN SHALL OPERATE AT 1000 CFM. PROVIDE WITH ROOF CURB.

VARIABLE FREQUENCY DRIVES (VFD)

TAG	LOCATION	SERVICE	MFR	VOLTAGE	HORSEPOWER	BYPASS	REMARKS
VFD-1	COOLING TOWER YARD	CT-1	ABB	460/3ø	20	YES	
VFD-2	COOLING TOWER YARD	CT-2	ABB	460/3ø	20	YES	
VFD-3	COOLING TOWER YARD	CT-3	ABB	460/3ø	20	YES	
VFD-4	CENTRAL PLANT	CHWP-3	ABB	460/3ø	40	YES	
VFD-5	CENTRAL PLANT	CHWP-4	ABB	460/3ø	40	YES	
VFD-5	CENTRAL PLANT	EF-1	ABB	460/3ø	1	NO	

NORTH

ChevronTexaco
Chevron Energy Solutions Company
A Division of Chevron U.S.A. Inc.
SAN FRANCISCO OFFICE
345 CALIFORNIA ST., 25th FLOOR
SAN FRANCISCO, CA 94104

REV	DATE	BY	DESCRIPTION
1	1/27/05		50% DD
2	2/18/05		75% DD
3	3/4/05		DSA REVIEW
4	5/27/05		REVISION TO DSA COMMENTS
5	6/22/05		REVISION TO DSA COMMENTS
6	5/1/06		AS BUILTS

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These drawings and specifications have been prepared by CMI for their exclusive use in accord with Sec. 6737.4 of the Professional Engineers Act of the State of California.

Canada College Modernization
CENTRAL PLANT RENOVATION
San Mateo County Community College District

REGISTERED PROFESSIONAL ENGINEER
TIAN Q. FRAM
No. M32204
EXP. 9/30/06
MECHANICAL
STATE OF CALIFORNIA

MECHANICAL EQUIPMENT SCHEDULES

SCALE	NTS
PROJECT NO.	22524-006
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
LAYOUT TAB	
XREFS	
XREFS (CONT)	
XREFS (CONT)	
FILE NAME	

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