

WATER COOLED CHILLER SCHEDULE

UNIT NO.	LOCATION	MIN. TONS	NPLV	MAX. KW PER TON (W)	COMPRESSOR MOTOR HP (KW) INPUT	PHASE VOLT	GPM	ENT. LIQ. WATER TEMP. 2F	LEAK WATER TEMP. 2F	MAX. P.D.	GPM	ENT. LIQ. WATER TEMP. 2F	LEAK WATER TEMP. 2F	MAX. P.D.	REMARKS
1	BLDG. 147	1000	.344	.581	581	3-480	2400	54.0	44.0	30.8	3000	97	87	41.8	YORK YK MAXE, MCQUAY WSC OR APPROVED EQUIVALENT
4	BLDG. 147	600	.367	.595	387	3-480	1440	54.0	44.0	31.3	1800	97	87	37.2	YORK YK MAXE, MCQUAY WSC OR APPROVED EQUIVALENT

* CHILLER SHALL HAVE VFD

HVAC PUMP SCHEDULE

PUMP NO.	LOCATION	SYSTEM	FLUID	GPM	PUMP HEAD FT (M)	TEMP. °F	SP. GR.	% EFF.	TYPE	NOM. HP	PHASE VOLT	RPM	REMARKS
147-P1*	BLDG. 147	CHILLED WATER	WATER	2400	155	44	1.0	85	DOUBLE SUCTION	125	3-480	1750	TACO MODEL TA2038 OR APPROVED EQUAL
147-P3**	BLDG. 147	COND. WATER	WATER	3000	85	87	1.0	86	DOUBLE SUCTION	75	3-480	1750	TACO MODEL TA2530 OR APPROVED EQUAL
147-P8*	BLDG. 147	CHILLED WATER	WATER	2400	155	44	1.0	85	DOUBLE SUCTION	125	3-480	1750	TACO MODEL TA2038 OR APPROVED EQUAL (BALANCE PUMP TO 1440 GPM)
147-P9**	BLDG. 147	COND. WATER	WATER	3000	85	87	1.0	86	DOUBLE SUCTION	75	3-480	1750	TACO MODEL TA1538 OR APPROVED EQUAL (BALANCE PUMP TO 1800 GPM)

* CHILLED WATER PUMP SHALL BE A HORIZONTAL SPLIT CASE DOUBLE SUCTION.

**CONDENSER WATER PUMP SHALL BE A DOUBLE SUCTION TOP DISCHARGE TO MATCH EXISTING.

COOLING TOWER SCHEDULE

UNIT NO.	LOCATION	NO. CELLS	GPM EACH CELL	MAX. P.D. FT. (M)	TEMPERATURES °F (°C)	FAN MOTOR	REMARKS
147-CT1,2	BLDG 147	2	1950**	10	80 97 87	1750 2Ø40 3-480	BAC, EVAPCO OR APPROVED EQUIVALENT
147-CT5,6	BLDG 147	2	1950**	10	80 97 87	1750 2Ø40 3-480	BAC, EVAPCO OR APPROVED EQUIVALENT (BID ADDITIVE #2)
147-CT4	BLDG 147	1	3000*	10	80 97 87	1750 75 3-480	BAC, EVAPCO OR APPROVED EQUIVALENT

COOLING TOWER SHALL HAVE A BYPASS TO SUMP CONNECTION, 1/2" COLD WATER MAKE UP CONNECTION, 2" DRAIN, 3" OVERFLOW, VIBRATION SWITCHES, CONTROL PANEL, LADDER, PLATFORM, MAINTENANCE PLATFORM, ETC.

COOLING TOWER SHALL HAVE TWO (2) 12 KW BASIN HEATER ELEMENTS.

* SHALL BE BALANCED TO 1600 GPM.

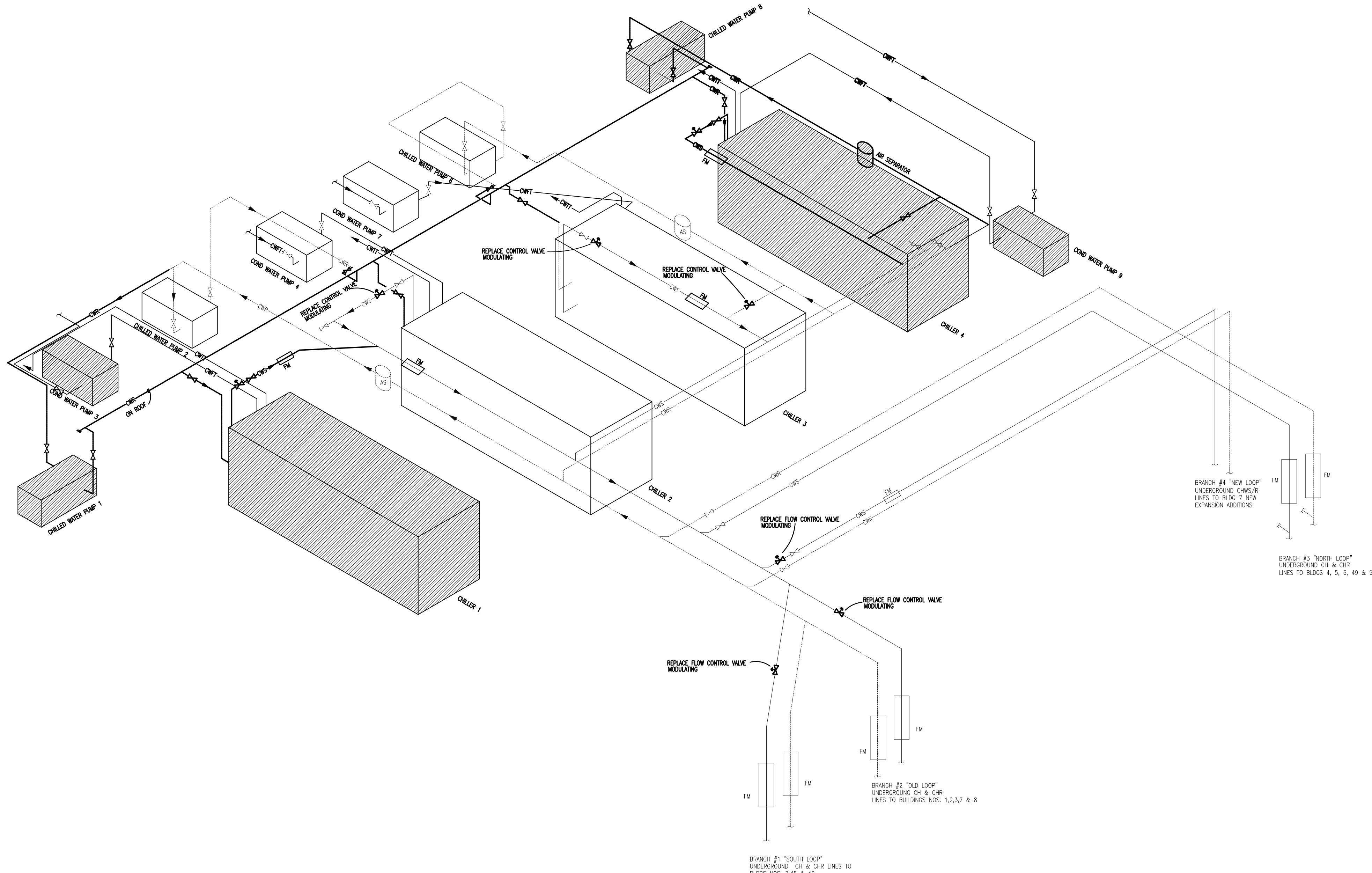
** SHALL BE BALANCED TO 1500 GPM EACH.

CONTROL VALVE SCHEDULE

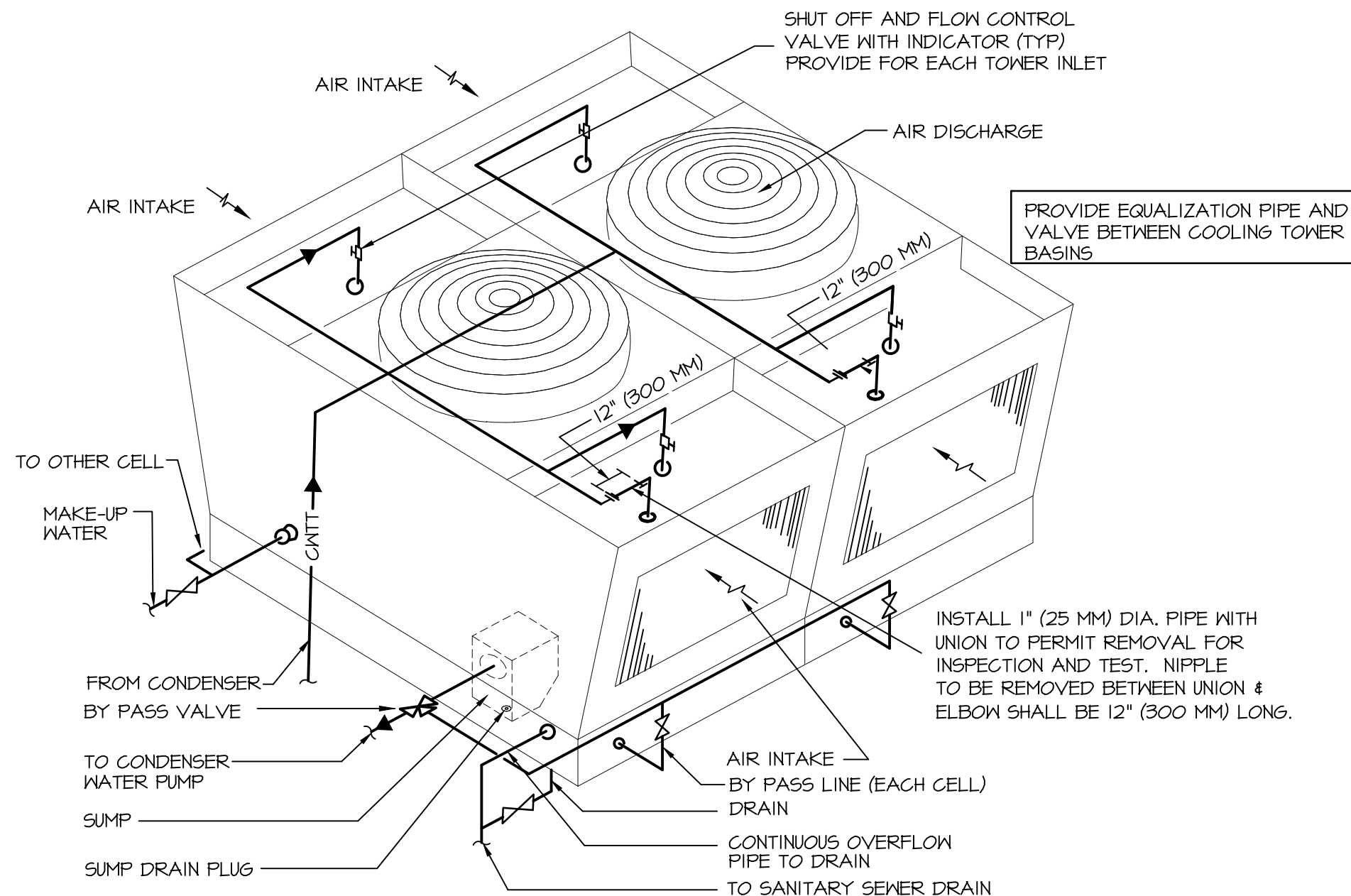
UNIT NO.	SERVICE	SIZE	CAPACITY GPM	OPERATING GPM	ELEC. SERVICE	REMARKS
MV-CT1R	COOLING TOWER 1 RETURN	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT1S	COOLING TOWER 1 SUPPLY	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT2R	COOLING TOWER 2 RETURN	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT2S	COOLING TOWER 2 SUPPLY	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT3R	COOLING TOWER 3 RETURN	10"	2100	1950	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT3S	COOLING TOWER 3 SUPPLY	10"	2100	1950	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT4R	COOLING TOWER 4 RETURN	12"	3000	1800	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT4S	COOLING TOWER 4 SUPPLY	12"	3000	1800	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT5R	COOLING TOWER 5 RETURN	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT5S	COOLING TOWER 5 SUPPLY	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT6R	COOLING TOWER 6 RETURN	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CT6S	COOLING TOWER 6 SUPPLY	10"	1950	1500	120/1/60	MODULATING, BID ADDITIVE #1
MV-CH-1	CHILLER #1	12"	2400	2400	120/1/60	MODULATING, BID ADDITIVE #1
MV-CH-2	CHILLER #2	12"	2400	2400	120/1/60	MODULATING, BID ADDITIVE #1
MV-CH-3	CHILLER #3	8"	1560	1560	120/1/60	MODULATING, BID ADDITIVE #1
MV-CH-4	CHILLER #3	10"	1440	1440	120/1/60	MODULATING, BID ADDITIVE #1
MV-CWBP-1	DECOUPLER	14"	--	--	120/1/60	MODULATING, BASE BID
CT-1-BP	COOLING TOWER 1 BY PASS	10"	1950	1500	*	BASE BID
CT-2-BP	COOLING TOWER 1 BY PASS	10"	1950	1500	*	BASE BID
CT-4-BP	COOLING TOWER 1 BY PASS	10"	1950	1500	*	BASE BID
CT-5-BP	COOLING TOWER 1 BY PASS	10"	1950	1500	*	BID ADDITIVE #2
CT-6-BP	COOLING TOWER 1 BY PASS	10"	1950	1500	*	BID ADDITIVE #2

COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.

MECHANICAL SCHEDULES N.T.S.



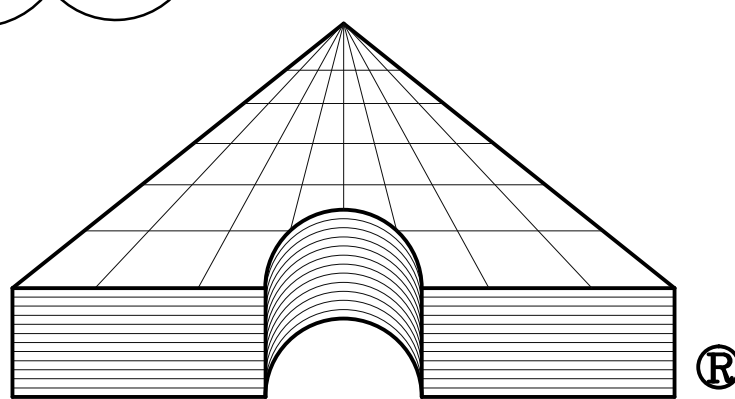
PIPING SCHEMATIC
N.T.S.



TYPICAL PIPING CONNECTIONS
TO DUAL CELL COOLING TOWER

Revisions

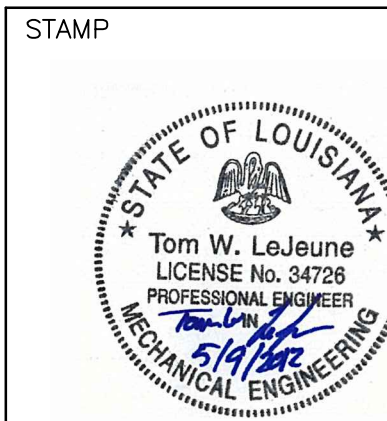
SYMBOL	NAME	Date
△	SHEET M4 AMENDMENT 1	5/9/2012



ASSOCIATED DESIGN GROUP, INC.

Lafayette, Louisiana (337) 234-5710

PROJECT No. 11106



Drawing Title	MECHANICAL SCHEDULES
Approved:	
Approved:	

Project Title	VA HOSPITAL CENTRAL PLANT MODIFICATIONS
Building Number	147
Location	ALEXANDRIA, LOUISIANA

Date	01-31-12
Project No.	000-00-000
Drawing No.	147-M-4R
Dwg.	5 of 9

Veterans Administration