



ROBERT F. STUHR ARCHITECT INC.

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Don't know what to do?
Call us for help!
We'll get you back on track!

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AIR CONDITIONING SCHEDULES
PIONEER DRIVE SCHOOL MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

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Call us for help!
We'll get you back on track!

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO USC.

MARK	DATE	REVISIONS
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JOB NO.
DRAWN: D.F. STUHR
CHECKED: D. MELBY
DATE:
11
OF 11 SHEETS

BOILER SCHEDULE	
DESIGNATION	17
NAME PLATE AMPS	-
VOLTS/PHASE	115/1
INPUT (MBH)	1750
OUTPUT (MBH)	1750
GPM/P D (FT)	70/24
ENT/LMT (°F)	120/170
FUEL	NATURAL GAS
MANUFACTURER	WATSON
TYPE	WATER TUBE
MODEL NUMBER	115100
LOCATION	MULTI-PURPOSE
OPER WT (LBS)	4500
ACCESSORIES	SEE SPECS

BRINE CHILLER SCHEDULE	
DESIGNATION	18
MODE	WATER MAKING CHILLER
CAPACITY (TONS)	40
UNIT FLA	150
VOLTS/PHASE	480/3
SEER @ 75°F DB/55°F WB	5.5
MAX FUSE	200
QUANTITY	2
RLA (EACH)	71
OPER WT (LBS)	75.2
GPM/PD (FT)	205/10.5
EBT/LBT (°F)	48/22
SCALE FACTOR	1.0005
AMBIENT AIR (°F)	95
MANUFACTURER	WEG
TYPE	AIR COOLED
MODEL	ALR075C
OPER WT (LBS)	5700
ACCESSORIES	SEE SPECS

HEAT EXCHANGER SCHEDULE	
DESIGNATION	19
GPM (BRINE)	225
EBT/LBT (°F)	40/74
PD (FT WATER)	5
CAPACITY (MBH)	1,000
GPM (WATER)	207
ENT/LMT (°F)	54/114
PD (FT WATER)	1.4
HEAT TRANS AREA (FT²)	44,200
TYPE	PLATE & FRAME
MANUFACTURER	STARR
MODEL NUMBER	11440
LOCATION	CHILLER YARD
OPER WT (LBS)	2200
ACCESSORIES	SEE SPECS

ICE STORAGE TANK SCHEDULE	
DESIGNATION	20
AVAIL STORAGE (TON-HR) @ 40° LBT DESIGN COND	100
FLOW RATE (GPM)	45
HEAD (FT WG.)	12.0
AVG LOAD DRAW (TONS)	12.0
PEAK LOAD DRAW (TONS)	12.0
TIME OF DRAW (HRS)	6
CHARGE RATE (TONS)	10.0
CHARGE TIME (HRS)	10
PIPE CONNECTION	2 1/2"
MANUFACTURER	CALMAC
MODEL	1190
WT FILLED (LBS)	10,000
ACCESSORIES	SEE SPECS

GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS PAS (TYPE 3) PERFORATED FACE RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING, WITH O.B.D. FLAT BLACK INTERIOR, AND NO. 25 OFF-WHITE FINISH.
B	WALL SUPPLY	TITUS MODEL 1707-35 REGISTER WITH REMOVABLE CORE, O.B.D., 5 DEGREE UPWARD DEFLECTION AND NO. 25 OFF-WHITE FINISH.
C	WALL RETURN	TITUS CORE 25-RLS STEEL RETURN REGISTER, WITH O.B.D. AND NO. 25 OFF-WHITE FINISH.
D	FLOOR RETURN	TITUS MODEL CT-540 TYPE 5, ALUMINUM BAR RETURN WITH HEAVY DUTY MOUNTING FRAME, 1/4" BARS, 1/2" SPACING, O.B.D. BLACK FINISH.
E	RELIEF GRILLE	TITUS CORE 25-RL STEEL GRILLE, NO. 25 OFF-WHITE FINISH.
F	LOUVER	RUSKIN LB11 20 GAGE GALVANIZED SHEET METAL LOUVER WITH 1/2" MESH SCREEN ON INSIDE FACE. PRIME FOR PAINT.

UNIT VENTILATOR SCHEDULE				
DESIGNATION	21	22	23	24
CFM	1500	1500	1500	1500
MIN OSA (CFM)	100	200	200	200
AMPS	2.4	2.4	2.5	2.0
VOLTS/PHASE	115/1	115/1	115/1	115/1
SENSIBLE (MBH)	16.5	28.0	41.1	41.1
TOTAL (MBH)	17.0	30.0	47.1	47.1
EADB/EAMB (°F)	57/64	57/64	57/64	57/64
GPM/P D (FT)	47/7	57/8	10/5.9	10/5.9
ENT (°F)	45	45	45	45
PIPE SIZE	2"	2"	2"	2"
VALVE TYPE	2-WAY	2-WAY	2-WAY	2-WAY
HEATING CAP (MBH)	20.0	26.0	51.5	45.0
EADB (°F)	64	64	64	64
GPM/P D (FT)	47/7	57/8	10/5.9	10/5.9
ENT (°F)	120	120	120	120
PIPE SIZE	2"	2"	2"	2"
VALVE TYPE	2-WAY	2-WAY	2-WAY	2-WAY
QUANTITY/SIZE	1/22"	1/24"	2/24"	2/24"
TYPE	ROOF MOUNT	ROOF MOUNT	ROOF MOUNT	ROOF MOUNT
MANUFACTURER	444	444	444	444
MODEL NO	AVR100	AVR100	AVR100	AVR100
OPER WT (LBS)	800	800	800	800
ACCESSORIES	SEE SPECS	SEE SPECS	SEE SPECS	SEE SPECS

PACKAGE AIR CONDITIONING UNIT SCHEDULE			
DESIGNATION	25	26	27
NAMEPLATE AMPS	17.4	17.4	20.7
VOLTS/PHASE	208-230	208-230	208-230
SEER AT ARI	9.7	9.7	9.0
CFM	800	850	1200
DUCT SP (IN WC)	1.5	1.5	1.5
MIN OSA (CFM)	100	100	100
HP/SPEED	1.2/2	1.2/2	2.1/3
DRIVE	BLDC	BLDC	BLDC
MAX FUSE SIZE	20	20	20
SENSIBLE (MBH)	15.8	21.8	44.2
TOTAL (MBH)	21.8	27.8	44.2
EADB/EAMB (°F)	57/64	57/64	57/64
AMB AIR (°F)	74	74	74
INPUT (MBH)	20.0	26.0	41.0
OUTPUT (MBH)	20.0	26.0	41.0
FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS
QUANTITY/SIZE	1/24"	1/24"	2/24"
TYPE	ROOF MOUNT	ROOF MOUNT	ROOF MOUNT
PD (IN WC)	0.2	0.2	0.2
MANUFACTURER	YORK	YORK	YORK
TYPE	48" BLUETOOTH	48" BLUETOOTH	48" BLUETOOTH
MODEL NUMBER	481000	481000	481000
LOCATION	481000	481000	481000
OPER WT (LBS)	500	470	260
ACCESSORIES	SEE SPECS	SEE SPECS	SEE SPECS

AIR HANDLER SCHEDULE	
DESIGNATION	17
AIR FLOW (CFM)	8000
TOTAL SP (IN WC)	2
MIN OSA (CFM)	1500
HP/BRAKE HP	57/4
VOLTS/PHASE	115/1
FAN TYPE/CLASS	10/1
ISOLATOR DEFLEC (IN)	1
SENSIBLE (MBH)	16.5
TOTAL (MBH)	17.0
COIL SIZE (FT²)	13.4
AIR PD (IN WC)	0.4
EADB/EAMB (°F)	57/64
GPM/PD (FT)	40/7.4
ENT (°F)	45
BRANCH SIZE	1 1/2"
VALVE TYPE	2-WAY
CAPACITY (MBH)	18.0
COIL SIZE (FT²)	13.4
AIR PD (IN WC)	0.4
GPM/PD (FT)	40/7.4
ENT/EAT (°F)	40/25
BRANCH SIZE	1 1/2"
VALVE TYPE	2-WAY
QUANTITY/SIZE	1/24"
TYPE	ROOF MOUNT
FINAL PD (IN WC)	0.2
MANUFACTURER	MORQUAY
TYPE	ROOF TOP
MODEL NUMBER	500-1000
LOCATION	MULTI-PURPOSE
OPER WT (LBS)	2400
ACCESSORIES	1) 1/2" O.D. BRASS VALVE & 4000 RELIEF VALVE

PUMP SCHEDULE						
DESIGNATION	1	2	3	4	5	6
HP	1	2	1	5	2	7 1/2
VOLTS/PHASE	480/3	480/3	240/3	480/3	480/3	480/3
RPM	1750	1750	1750	1750	1750	1750
GPM/VDH (FT)	12/1.0	50/0.4	70/0.8	10/1.4	20/1.5	22.5/0.8
EFFICIENCY (%)	25	51	47	68	74	71
MANUFACTURER	WEG	WEG	WEG	WEG	WEG	WEG
TYPE	WATER	WATER	WATER	WATER	WATER	WATER
MODEL NUMBER	AVR100	AVR100	AVR100	AVR100	AVR100	AVR100
LOCATION	WATER TOWER	WATER TOWER	WATER TOWER	WATER TOWER	WATER TOWER	WATER TOWER
OPER WT (LBS)	100	100	100	100	100	100
ACCESSORIES						

BOILER STACK ECONOMIZER SCHEDULE	
DESIGNATION	28
NAME PLATE AMPS	15
VOLTS/PHASE	115/1
PUMP HP	1/2
BID RATING	14,000
BOILER GAS SAVINGS	170,000
GPM/PD (FT)	50/0.4
ENT/LMT (°F)	135/160
FLUE DIA	18"
MANUFACTURER	TRANE
TYPE	WATER
MODEL NUMBER	18-0118
LOCATION	BOILER ROOM
OPER WT (LBS)	100
ACCESSORIES	SEE SPECS

EXHAUST FAN SCHEDULE		
DESIGNATION	29	30
CFM	4000	90
ESP (IN WC)	0.5	0.5
HP/WATTS	12/1	1/100
VOLTS/PHASE	115/1	115/1
RPM	550	1000
TIP SPEEDS/SONES	9765/1	115/1
DRIVE	BELT	DIR
MOUNTING	ROOF CURB	CEILING
MANUFACTURER	FENN	FENN
TYPE	FLOWEX	ZEPRIN
MODEL NUMBER	LB24	2-G
CONTROL	W/ESC FOR 27.0 MBH	INTERVIEW
LOCATION	MULTI-PURPOSE	W/ESC FOR 27.0 MBH
OPER WT (LBS)	175	15
ACCESSORIES	B.O.D.	B.O.D.