NICAL NOTES:

ENT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, THE SHALL BE NOTIFIED IMMEDIATELY.

ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK.

R SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.

R SHALL VERIFY ALL MEASUREMENTS AT SITE AND BE RESPONSIBLE CTNESS OF SAME.

SHALL BE INSTALLED READILY ACCESSIBLE FOR OPERATION, CE AND REPAIRS.

DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

LEX CONNECTION AT DUCT CONNECTIONS TO AHUS, RTUS, AND EXHAUST

DUCT SHALL NOT EXCEED 5'-0".

PIN-IN TAP WITH DAMPER AT EACH RUNOUT TAP.

ANUAL RESET IONIZATION TYPE SMOKE DETECTOR IN SUPPLY AND R DUCTS OF UNITS OF 2000 CFM OR GREATER TO SHUT OFF UNIT CTION OF PRODUCTS OF COMBUSTION. PROVIDE MANUAL RESET IN ALL UNITS LESS THAN 2000 CFM.

ERANT PIPING TO BE TYPE "K" COPPER. PROVIDE 1/2" ARMAFLEX N LINE.

E DRAIN, AND RELIEF PIPING SHALL BE TYPE "L" HARD DRAWN TH WROUGHT COPPER FITTINGS.

NSATE LINES UP THROUGH ROOF WITHIN ROOF CURB AREA AND OUT URB.

CONDENSATE LINE AND WATER HEATER RELIEF LINE DOWN IN WALL AND B DRAIN.

CONDENSATE PIPING WITH 1" THICK FIBERGLASS WITH ASJ OR 1/2 PLENUM RATED IF IN RETURN AIR PLENUM).

CT OPENINGS THRU ROOF CURB BETWEEN JOISTS. BLOCK SECTIONS OF THAT INTERFERE WITH JOISTS AT ROOF DECK ABOVE JOISTS. PROVIDE CONNECTION.

TRATIONS SHALL BE KEPT TO A MINIMUM.

.C. CONTRACTOR SHALL LABEL ALL OF THE ROOF-TOP EQUIPMENT PER PRESENTATIVE'S REQUIREMENTS.

ING CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS IONS AND FEES) WITH THE LOCAL UTILITY COMPANY FOR WATER

NTERMEDIATE TRAPS, OVERSIZED RISERS, SUCTION ACCUMULATORS, QUIRED BY HVAC MANUFACTURER FOR PROPER OPERATION OF G UNIT FOR RISE AND DISTANCE OF REFRIGERANT LINES.

RAP PRIMERS AT ALL HUB DRAINS.

ROOFTOP UNIT SCHEDULE:

LOCATION	LOBBY CONF	E&W CONF	MID CONF DRESS RMS.	KIT	THEATER	THEATRE	LOBBY
MARK	RTU-1,2	RTU-3,4	RTU-5,21	RTU-6	RTU-7	RTU-8	RTU-9
MAKE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	SFHB-25	BYC100	YCD075	BYC130	SFHC-40	SFHC-50	BTC200
COOLING MBH:							
TOTAL	284	88.5	68.8	125	502	602	186.9
SENSIBLE	232	68.2	49.5	102.5	400	481	150.5
CFM	9000	2700	2250	4800	16000	20000	6500
ESP	2.0	1.0	1.0	.5	3.0	3.0	.7
HP	10	2.0	.75	5	20	25	7.5
FLA	14	3.1	2.3	6.4	27	34	9.4
CONDENSING UNIT:							
EXH FAN FLA	2.6					10HP/164FLA	15HP/21FLA
COND FAN FLA	5.4	2.6	1.7	6.3	7.2	10.8	6.3
COMP RLA	35.1	14.2	13	19.6	71	85.8	28.4
MCA	61	26	21	35.2		46	100
MFS	70	35	30	40			100
HEATING:							
INPUT MBH	470	120	120	160	850	850	BAYRTRL460A
VOLTS/PHASE	480/3	480/3	480/3	480/3	480/3	480/3	60 KW
COMBUSTION FAN FLA					1.2	1.2	480/3

ROOFTOP UNIT SCHEDULE (CONTINUED):

LOCATION	RENEARSAL	CHILD-CARE	OFFICES	PROP/COSTUME	ELEC	CORE	RECEP.	COMM. BLDG.
MARK	RTU-11-14	RTU-16	RTU-17	RTU-18	RTU-19	RTU-20	RTU-22	RTU-23-25
MAKE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	YCD060A	YCD048A	YCD075A	YCD120	YCD036A	YCD048A	YCD030A	YCD060A
COOLING MBH:								
TOTAL	59.7	44.8	70.2	116.9	35.5	45.7	27	59.7
SENSIBLE	44.1	32.2	52.1	87.2	26.3	33.9	20.5	44.1
CFM	2000	1440	2500	4000	1200	1600	1000	2000
ESP	.8	.65	.8	1.0	.4	.6	.25	.5
HP	.6	1/2	1.0	2.0	.33	1/2	.1	.6
FLA	2.5	2.1	3.2	3.4	1.2	2.1	2.9	5.3
CONDENSING UNIT:						COND FAN		
EXH FAN FLA								
FLA	1.324	1.0	1.7	3.0	1.0	1.0	1.7	2.6
COMP RLA	1135	8	13	17.2	6	8	14.9	20
MCA	17	13	21	29.1	10	13	24	32.9
MFS	25	15	30	40	15	15	35	50
HEATING:								
INPUT MBH	90	90	120	150	80	90	75	90
VOLTS/PHASE	480/3	480/3	480/3	480/3	480/3	480/3	208-230/1	208/3

COIL CONDITIONS:
@ 105 DEG F AMBIENT & 80 DEG F DB / 67 DEG F WB

RTU-1,2,	ROOF CURB, AUTO-CHANGEOVER THERMOSTAT, DISCONNECT SWITCH, FILTERS, POWER EXHAUST, DIFFERENTIAL ENTHALPY CONTROLLED ECONOMISER, TIME DELAY RELAY, ANTISHORTCYCLE TIMER.
RTU-7,8	ROOF CURB, AUTO-CHANGEOVER THERMOSTAT, DISCONNECT SWITCH, FILTERS, LOW LEAK DAMPERS, HIGH CAPACITY COILS, ISOLATION RAILS, POWER EXHAUST, DIFFERENTIAL ENTHALPY CONTROLLED ECONOMISER.
RTU-11-14	ROOF CURB, AUTO-CHANGEOVER THERMOSTAT, FILTERS, DIFFERENTIAL ENTHALPY CONTROLLED ECONOMISER, BAROMETRIC RELIEF, TIME DELAY RELAY, ISOLATION RAILS, ANTISHORTCYCLE TIMER.
RTU-19,22	ROOF CURB, AUTO-CHANGEOVER THERMOSTAT, FILTERS, TIME DELAY RELAY, ANTISHORTCYCLE TIMER.
ALL OTHERS	ROOF CURB, AUTO-CHANGEOVER THERMOSTAT, FILTERS, DIFFERENTIAL ENTHALPY CONTROLLED ECONOMISER, BAROMETRIC RELIEF, TIME DELAY RELAY, ANTISHORTCYCLE TIMER.

AIR HANDLING UNIT SCHEDULE:

LOCATION	E&W CONF	MID CONF	OFF CONF	SHOP & DIM	LOBBY OFFICES
MARK	AHU-1,2	AHU-3	AHU-4	AHU-5,6	AHU-7,8,9
MAKE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL:					
HU	TWE120A	TWE090A	TWN018	TWE090A	TWV060P15
CU	TTA090A	TTA090A	TTD712	TTA090A	TTA072
COOLING MBH:					
TOTAL	91.1	83.9	13.9	84.5	62.6
SENSIBLE	51.4	49.8	10.0	62.7	44.8
CFM	3050	2700	450	3000	2000
ESP	.8	.9	.51	.8	.63
HP	2	1.5	.25	1.5	.75
FLA	7.5	2.6	1.0	2.6	6
VOLTS/PHASE	480/3	480/3	240/1	480/3	240/1
MCA	42	41		41	56
MFS	45	45		45	
HEATING:					
MODEL	BAYRTRL425A	BAYRTRL425A	BAY96X1405	BAYRTRL425A	BAY96X1520A
KW	24.92	24.92	4.8	24.92	20.16
VOLTS/PHASE	480/3	480/3	240/1	480/3	240/1
CONDENSING UNIT:					
COMP RLA	13.2	13.2	6.1	13.2	10.1
VOLTS/PHASE	480/3	480/3	240/1	480/3	480/3
COND FLA	1.3	1.3	.9	1.3	1.7
VOLTS/PHASE	480/1	480/1	240/1	480/1	480/1
MCA	18	18	9	18	14.3
MFS	30	30	15	30	20

COIL CONDITIONS:
@ 105 DEG F AMBIENT & 80 DEG F DB / 67 DEG F WB

UNITS SHALL INCLUDE: LOW AMBIENT KIT, AUTO-CHANGEOVER THERMOSTAT, FILTERS TIME DELAY RELAY, SIDE RETURN. SINGLE POINT ELECTRICAL CONNECTION

EXHAUST FAN SCHEDULE:

LOCATION	RR CONF	KIT CONF	PUBLIC RR	DRESS CHILD	GREEN	STAFF RR	SHOP	COMM
MARK	EF-1	EF-2	EF-3,4	EF-5-11	EF-12	EF-13	EF-14	EF-16
MAKE	ACME	ACME	ACME	ACME	ACME	ACME	ACME	ACME
MODEL	P13503	V150	PUB200D	V150	V300	V200	PV110-2	V400
TYPE	ROOFTOP	CEILING	WALL	CEILING	CEILING	CEILING	WALL	INLINE
CFM	800	90	600	90	300	195	625	380
ESP	.5	.25	.5	.25	.25	.25	.5	.125
HP	1/6		1/6				1/11	
DRIVE	BELT	DIRECT	BELT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
WATTS		100		100	165	115		255
AMPS		1		1	2.3	1.3		3.3
VOLTS/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1

EF-1 WITH BACKDRAFT DAMPER, ROOF CURB, AND BIRD SCREEN
EF-2,5-13,15,16 WITH BACKDRAFT DAMPER, ROOF CAP, AND BIRD SCREEN
EF-3,4 WITH BACKDRAFT DAMPER
EF-14 WITH BACKDRAFT DAMPER, WALL GRILLE, AND BIRD SCREEN

SILENCERS:

LOCATION:	RTU-7	RTU-8	RTU-7,8
MARK	RS-1	RS-2	RS-3
USE	RETURN	RETURN	RETURN
MANUF	IAC	IAC	IAC
TYPE	LFL	LFL	LFL
CFM	14400	18000	32400
SIZE	84x18	84x18	240x18
LENGTH FT.	5	5	5
VELOCITY FPM	1375	1725	1080
PD	.16	.25	.16

PLUMBING FIXTURE SCHEDULE:

FD	JOSAM 30000A SERIES FLOOR DRAIN, NIKALLOY STRAINER. USE 30000E WHERE FUNNEL CALLED OUT ON DRAWINGS.
HB	HOSE BIB WOODFORD MODEL 24P WITH TEE KEY.
WF	WALL FAUCET WOODFORD MODEL 24P WITH WHEEL HANDLE.
YH	YARD HYDRANT WOODFORD MODEL Y95.
WH	WALL HYDRANT WOODFORD MODEL B65.
RDA	ROOF DRAIN JOSAM 24520 SERIES
RD	ROOF DRAIN JOSAM 21000 SERIES
OD	OVERFLOW DRAIN JOSAM 21000 SERIES WITH PIPE 2" INSIDE ABOVE ROOF DECK
PT	PLASTER TRAP JOSAM H-30 2" INLET/OUTLET
TT	DOWNSPOUT NOZZLE JOSAM 25010 SERIES
WH-1	STATE PV-10-10MS-K WATER HEATER, 10 GAL, 1650 WATTS, 120V/1PH.
WH-2	STATE EV-50-2SLS WATER HEATER, 47 GAL, 6000 WATTS, 240V/1PH.
WH-3,5	STATE PV-6-1NS-K WATER HEATER, 6 GAL, 1650 WATTS, 120V/1PH.
WH-4	STATE SBT-100-199-NET GAS WATER HEATER, 100 GAL, 199 MBH INPUT.
WH-6	STATE PV-17-10MS-K WATER HEATER, 17 GAL, 1650 WATTS, 120V/1PH.
GREASE TRAP	JOSAM JRC-13 SERIES HIGH VOLUME TYPE. MOUNT AT GRADE LEVEL WITH CONCRETE APRON SURROUND. 150 LB. 300 GPM. 4" PIPE. (60L x 39W x 43 1/2H.)

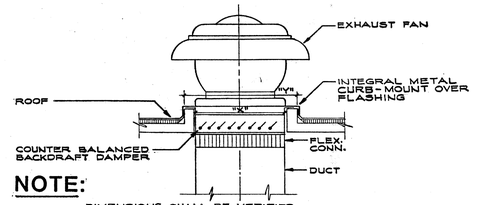
DIFFUSER/REGISTER/GRILLE SCHEDULE:

A	KRUGER SERIES DPL SUPPLY DRUM LOUVER. CFM AND SIZE PER DRAWINGS.
B	TITUS CT-PP-0 FINELINE FLOOR SUPPLY. CFM, SLOT SIZE, SLOT NUMBER, AND NECK SIZE PER DRAWINGS.
C	TITUS CT-48I FINELINE SIDEWALL SUPPLY. CFM, AND SIZE PER DRAWINGS.
D	TITUS 300 SIDEWALL AND DUCT MOUNTED SUPPLY GRILLES. CFM, AND SIZE PER DRAWINGS.
E	TITUS 350 SIDEWALL RETURN REGISTERS. SIZE PER DRAWINGS.
F	TITUS 200 PAS CEILING SUPPLY DIFFUSER. CFM, SIZE AND NECK SIZE PER DRAWINGS.
G	TITUS 200 PAR CEILING RETURN DIFFUSER. SIZE PER DRAWINGS.
H	TITUS TBD-10 SUPPLY/RETURN SLOT DIFFUSER. CFM, SLOT SIZE, SLOT NUMBER, AND NECK SIZE PER DRAWINGS.
J	TITUS TMR (STEEL) ROUND SUPPLY DIFFUSERS. CFM AND NECK SIZE PER DRAWINGS.

ALL DIFFUSERS OR EQUAL UNLESS NOTED OTHERWISE.
PROVIDE FRAME AND MOUNTING TYPES APPROVED BY ARCHITECT FOR EACH INSTALLATION.

LEGEND:

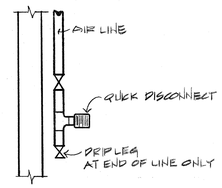
WC	WATER CLOSET
WCH	HANDICAP WATER CLOSET
WCB	CHILDRENS WATER CLOSET
LAV	LAVATORY
LAVB	CHILDRENS LAVATORY
FD	FLOOR DRAIN
HD	HUB DRAIN
WH	WATER HEATER
LS	LAUNDRY SINK
KS	KITCHEN SINK
CO	CLEAN OUT
WCO	WALL CLEAN OUT
FCO	FLOOR CLEAN OUT
COTG	CLEAN OUT TO GRADE
CW	COLD WATER
HW	HOT WATER
HWR	RECIRCULATING WATER
	SANITARY SEWER
	VENT
	THERMOSTAT
	EQUIPMENT
	DIFFUSER SUPPLY
	DIFFUSER RETURN/TRANSFER
	GATE VALVE
	FLEXIBLE DUCT
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD



NOTE:
DIMENSIONS SHALL BE VERIFIED W/ SPECIFIC EQUIP TO BE INSTALLED ON THE JOB BEFORE FRAMING ROOF OPNGS.

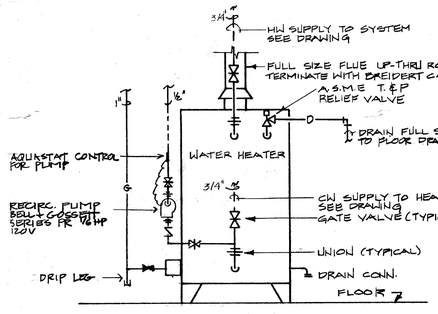
ROOFTOP EXHAUST FAN DETAIL

NOT TO SCALE



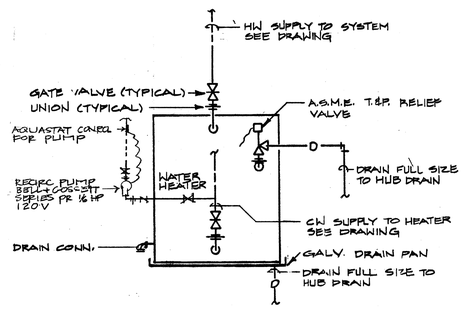
AIR – QUICK DISCONNECT DETAIL

NOT TO SCALE



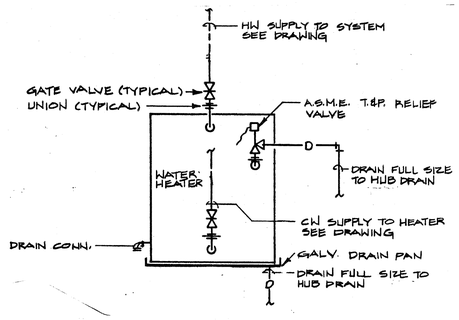
WATER HEATER DETAIL WH-4

NOT TO SCALE



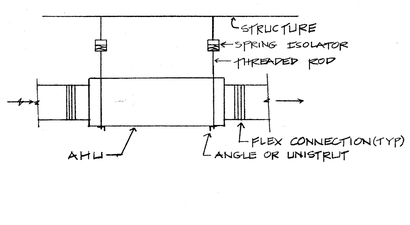
WATER HEATER DETAIL WH-2

NOT TO SCALE



WATER HEATER DETAIL WH-1,3,5

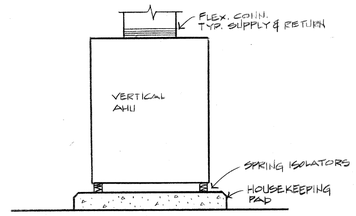
NOT TO SCALE



HORIZONTAL AHU MOUNTING DETAIL

NOT TO SCALE

SHWR	AQUARIUS INDUSTRIES S3632 ACRYLIC SHOWER. W/9535 SHOWER CURTAIN, 9536 HOOKS, W/1018R-C DRAIN WHITE, SPEAKMAN S-1401 VALVE AND HEAD.
HDCP	AQUARIUS INDUSTRIES 9938 TRANSFER SHOWER STALL, W/9535 SHOWER
SHWR	CURTAIN, 9536 HOOKS, W/1018R-C DRAIN WHITE, SPEAKMAN S-1401 VALVE AND VS1020 HAND SHOWER.
EYE WASH	SPEAKMAN SE-420
LAV	AMERICAN STANDARD OVALYN COUNTERTOP 0470.021, FAUCET SPEAKMAN SC 3044 BRUSHED
LAV DRESS RMS THEATER PUBLIC TOILETS	BOBRICK B-57811
LAV SH. TOILET CORR./Comm. HOUSE	BOBRICK B-57811
HAND SINK	BOBRICK B-582
EMC	HAWS HMCF8 SATIN STAINLESS STEEL CABINET
DF	HAWS 3353 SATIN STAINLESS STEEL.
WC DRESS RMS	AMERICAN STANDARD ELONGATED CADET 2109.405 OPEN FRONT SEAT
WCH DRESS RMS	AMERICAN STANDARD ELONGATED CADET 2108.408 OPEN FRONT SEAT 18" HIGH FOR HANDICAPPED.
WC	AMERICAN STANDARD AFWALL 2477.016, OPEN FRONT SEAT, SLOAN ROYAL 110-3 FLUSH VALVE
WCH	SAME AS ABOVE MOUNTED AT HANDICAPPED HEIGHT
UR	AMERICAN STANDARD WASHBROOK 6501.010, SLOAN ROYAL 186 FLUSH VALVE.
MOP SINK	AMERICAN STANDARD FLOORWELL 7740.020, 8344.111 FAUCET, 7721.038 DRAIN, 7745.011 RIM GUARD.



VERTICAL AHU MOUNTING DETAIL

NOT TO SCALE

PLUMBING SCHEDULE

OWNER
Town of Addison

ARCHITECT
Cunningham Architects
2700 Fairmount
Dallas, Texas 75201
214-855-5272

LANDSCAPE
The Kellams Group
317-776-1417

THEATRE CONSULTANT
Theatre Projects
203-431-3949

INTERIORS
CRSS
713-552-2000

STRUCTURAL
Ellisor Tanner
214-387-8393

M.E.P
MEP Systems
214-754-4741

CIVIL
Kurtz & Associates
214-680-3322

HISTORIAN
Alan Mason
214-691-7182

LIGHTING
Pamela Hull Wilson
214-823-6542

GRAPHICS
Nottestad Design
214-954-1978

STATE OF TEXAS — MARK BRIAN PORTION — 14708 — REGISTERED PROFESSIONAL ENGINEER

ACC ACT

ADDISON

Issue	Category	Subcategory	Sheet
ISSUE FOR BID 8-17-90	6	3	1