

LEGEND (NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS.)

	EXISTING EQUIPMENT OR PIPE TO BE REMOVED.
	EXISTING DUCTWORK AND/OR AIR DEVICE TO BE REMOVED.
	EXISTING EQUIPMENT OR PIPE TO REMAIN.
	EXISTING DUCTWORK AND/OR AIR DEVICE TO REMAIN.
	DUCTWORK AND TRANSITION. 1ST DIMENSION NOTED IS VISIBLE DIMENSION.
	DUCTWORK SPLITTER DAMPER.
	BRANCH TAKEOFF FROM DUCT W/VOLUME DAMPER AT EA TAKEOFF, EVEN IF VOLUME DAMPER IS NOT SHOWN.
	DUCTWORK: CEILING S/A DIFFUSERS. THROW IS FOUR-WAY UON.
	ELBOW UP OR DOWN IN DUCTWORK.
	DUCTWORK: RISE OR FALL
	HVAC EQUIPMENT.
	FLEXIBLE CONNECTIONS.
	WALL SUPPLY AIR REGISTER.
	WALL RETURN AIR GRILLE.
	CEILING SUPPLY AIR DIFFUSER.
	CEILING RETURN OR EXHAUST AIR DEVICE.
	SUPPLY OR OUTSIDE AIR DUCTWORK SECTION.
	RETURN AIR DUCTWORK SECTION.
	EXHAUST AIR DUCTWORK SECTION.
	HORIZONTAL FIRE DAMPER W/ ACCESS DOOR.
	VERTICAL FIRE DAMPER W/ ACCESS DOOR.
	COMB. FIRE/SMOKE DAMPER W/ACCESS DOOR.
	MOTORIZED SOLENOID (24 VOLT UON) AND DAMPER
	CO2 SENSOR
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	DUCT MOUNTED SMOKE DETECTOR. FURNISHED BY ELECTRICAL CONTRACTOR. INSTALLED BY THIS CONTRACTOR.
	AIR DEVICE MARK, CFM. SEE SCHEDULE.

ABBREVIATIONS

A	AMPERES	H	HIGH, HEIGHT
ABV	ABOVE	HWR	DOMESTIC HOT WATER
AD	ACCESS DOOR	HWR/HWS	DOMESTIC HOT WATER RETURN
AD	AUXILIARY DRAIN	INSUL	INSULATION, INSULATE
AFF	ABOVE FINISHED FLOOR	L	LONG, LENGTH
AFG	ABOVE FINISHED GRADE	LDB	LEAVING DRY BULB
ALUM	ALUMINUM	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECT, ARCHITECTURAL	LWB	LEAVING WET BULB
AV	ACID VENT	MAX	MAXIMUM
AW	ACID WASTE	MIN	MINIMUM
BA VA	BALL VALVE	MTD	MOUNTED
BAS	BUILDING AUTOMATION SYSTEM	MTG HT	MOUNTING HEIGHT
BF VA	BUTTERFLY VALVE	MVD	MOTORIZED VOLUME DAMPER
BFF	BELOW FINISHED FLOOR	OA	OUTSIDE AIR
BLW	BELOW	OBD	OPPOSED BLADE DAMPER
BTUH	BRITISH THERMAL UNITS / HOUR	OH	OVERHEAD
CFM	CUBIC FEET PER MINUTE	CO	CLEANOUT
CHR/CHS	CHILLED WATER RETURN / SUPPLY	CO2	CARBON DIOXIDE
CO	CLEANOUT	CONT	CONTINUATION
CO2	CARBON DIOXIDE	COORD	COORDINATE
CONT	CONTINUATION	CW	DOMESTIC COLD WATER
COORD	COORDINATE	CWR/CWS	CONDENSER WATER RETURN / SUPPLY
CW	DOMESTIC COLD WATER	D	CONDENSATE DRAIN LINE, EQUIP. DRAIN
CWR/CWS	CONDENSER WATER RETURN / SUPPLY	DEG F	DEGREES FAHRENHEIT
D	CONDENSATE DRAIN LINE, EQUIP. DRAIN	DIA	DIAMETER
DEG F	DEGREES FAHRENHEIT	DN	DOWN
DIA	DIAMETER	DFO	DOUBLE FLOOR CLEANOUT
DN	DOWN	DYCO	DOUBLE YARD CLEANOUT
DFO	DOUBLE FLOOR CLEANOUT	ETR	EXISTING TO REMAIN
DYCO	DOUBLE YARD CLEANOUT	EDB	ENTERING DRY BULB TEMPERATURE
ETR	EXISTING TO REMAIN	EDF	ELECTRIC DRINKING FOUNTAIN
EDB	ENTERING DRY BULB TEMPERATURE	EER	ENERGY EFFICIENCY RATIO
EDF	ELECTRIC DRINKING FOUNTAIN	EFF	EFFICIENCY
EER	ENERGY EFFICIENCY RATIO	ELEC	ELECTRICAL
EFF	EFFICIENCY	EOD	EMERGENCY OVERFLOW DRAIN
ELEC	ELECTRICAL	EQUIP	EQUIPMENT
EOD	EMERGENCY OVERFLOW DRAIN	ESD	EMERGENCY STORM DRAIN
EQUIP	EQUIPMENT	ESP	EXTERNAL STATIC PRESSURE
ESD	EMERGENCY STORM DRAIN	EWB	ENTERING WET BULB TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE	EWT	ENTERING WATER TEMPERATURE
EWB	ENTERING WET BULB TEMPERATURE	EXH	EXHAUST AIR
EWT	ENTERING WATER TEMPERATURE	EXIST	EXISTING
EXH	EXHAUST AIR	F&I	FURNISH AND INSTALL
EXIST	EXISTING	FCO	FLOOR CLEANOUT
F&I	FURNISH AND INSTALL	FD	FIRE DAMPER W/ AD
FCO	FLOOR CLEANOUT	FD	FLOOR DRAIN
FD	FIRE DAMPER W/ AD	FDC	FIRE DEPARTMENT CONNECTION
FD	FLOOR DRAIN	FHC	FIRE HOSE CONNECTION
FDC	FIRE DEPARTMENT CONNECTION	FHV	FIRE HOSE VALVE
FHC	FIRE HOSE CONNECTION	FLEX	FLEXIBLE DUCT
FHV	FIRE HOSE VALVE	FSD	COMB. FIRE/SMOKE DAMPER W/ AD
FLEX	FLEXIBLE DUCT	FT	FEET
FSD	COMB. FIRE/SMOKE DAMPER W/ AD	G	GAS
FT	FEET	GL VA	GLOBE VALVE
G	GAS	GA VA	GATE VALVE
GL VA	GLOBE VALVE	GR/GS	GLYCOL RETURN / SUPPLY
GA VA	GATE VALVE	GSH	GROSS SENSIBLE HEAT
GR/GS	GLYCOL RETURN / SUPPLY	GLH	GROSS LATENT HEAT
GSH	GROSS SENSIBLE HEAT	GTH	GROSS TOTAL HEAT
GLH	GROSS LATENT HEAT	GV	GREASE VENT
GTH	GROSS TOTAL HEAT	GW	GREASE WASTE
GV	GREASE VENT		
GW	GREASE WASTE		

GENERAL NOTES - MECHANICAL

- GENERAL NOTES APPLY TO ALL MECHANICAL SHEETS.
- NORMAL DESIGN CONDITIONS:
SUMMER : OUTSIDE: 98/78 DBWB INSIDE: 75/63 DBWB
WINTER : OUTSIDE: 25°F INSIDE: 70°F
- INSTALL THE WORK IN ACCORDANCE WITH APPROVING AUTHORITY. CITY OF AUSTIN, TX
- IN ANY CASE WHERE A PIPE OR DUCT SHOWN ON A PLAN SHEET DIFFERS FROM THAT SHOWN IN A SCHEMATIC OR DETAIL, USE THE LARGER OF THE TWO SIZES SHOWN.
- PIPING AND DUCTWORK SHOWN ON EACH PLAN IS RUN ABOVE THE CEILING ON THE FLOOR WHERE IT IS SHOWN UON, EXCEPT SANITARY PIPING IS RUN BELOW THE FLOOR WHERE IT IS SHOWN UON.
- THE DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE. COORD. W/ OTHER TRADES AND W/ EXIST. CONDITIONS. DO NOT INSTALL OR FABRICATE ANY WORK SHOWN UNTIL ALL SUCH WORK IS FULLY COORDINATED. NOT ALL OFFSETS AND FITTINGS ARE SHOWN. F&I OFFSETS AND FITTINGS AS REQ'D BY FIELD CONDITIONS AS PART OF THE WORK.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. CONSTRUCT ALL DUCTWORK DOWNSTREAM TO SMACNA 2 IN. PRESSURE CLASSIFICATION. SEAL ALL DUCTWORK TO SMACNA TYPE A SEAL CLASS.

GENERAL NOTES - HVAC DEMOLITION

- GENERAL NOTES APPLY TO ALL DEMOLITION VIEWS.
- REFER TO DRAWINGS FOR THE EXTENT OF WALL & CEILING DEMOLITION INCLUDED IN THE SCOPE OF WORK. REFER TO DETAIL SHEETS FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
- REMOVE ALL ITEMS NORMALLY INSTALLED BY THIS TRADE IN WALLS TO BE DEMOLISHED & AS OTHERWISE REQUIRED BY THE SCOPE OF WORK. PATCH ANY OPENINGS IN FLOORS, WALLS, ROOF, ETC. CREATED AS A RESULT OF THIS DEMOLITION, TO MATCH SURROUNDING CONSTRUCTION.
- REMOVE ALL UNNEEDED AND/OR ABANDONED MATERIALS & EQUIPMENT BACK TO THE LIMITS OF CONSTRUCTION OR THE NEAREST POINT AT WHICH THE ITEM IS REQUIRED TO REMAIN IN SERVICE. CAP AS APPROPRIATE. REINSULATE DUCTWORK WHEREVER INSULATED DUCTWORK IS PATCHED, CAPPED, ETC.
- REFER TO THE LEGEND SHEET FOR LEGEND, ABBREVIATIONS, & GENERAL MECHANICAL NOTES. REFER TO DIVISION 23 SPECIFICATIONS.
- HEAVY LINES INDICATE NEW WORK; LIGHT LINES INDICATE APPROXIMATE EXISTING CONDITIONS. FIELD VERIFY PRIOR TO BIDDING.
- COORDINATE ALL WORK SCHEDULING WITH ARCHITECT PRIOR TO BIDDING TO DETERMINE THE EXTENT OF AFTER-HOURS WORK REQUIRED, & INCLUDE SUCH AFTER-HOURS WORK.
- USE GALVANIZED STEEL FOR ALL DUCTWORK WITH 2 IN. THICK, 3/4 LB. DENSITY BLANKET WRAP INSULATION UNLESS OTHERWISE INDICATED. DO NOT INSULATE EXHAUST DUCTWORK UNLESS OTHERWISE INDICATED.
- COORDINATE LOCATION OF WALL-MOUNTED CONTROLS WITH ARCHITECT PRIOR TO ROUGH-IN.
- MOUNT WALL SENSORS 48 IN. AFF, 8 IN. TO ONE SIDE OF LIGHT SWITCHES WHERE BOTH OCCUR IN THE SAME LOCATION, UNLESS OTHERWISE INDICATED.
- DO NOT RUN AIR HANDLERS OR FANS UNTIL ALL INTERIOR CLEANING & PAINTING IS COMPLETE. CLEAN OR REPLACE ANY EQUIPMENT, DUCTWORK, ETC., WHICH IS FOULED DUE TO PAINT OR CONSTRUCTION DEBRIS.
- WHERE WORK IS ADJACENT TO OCCUPIED SPACE, KEEP CONSTRUCTION AREA AT A NEGATIVE PRESSURE RELATIVE TO SUCH SPACES, & FILTER DISCHARGE AIR AS REQUIRED TO CONTAIN DUST.

GENERAL NOTES - HVAC

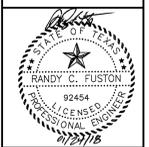
- GENERAL NOTES APPLY TO ALL RENOVATION VIEWS.
- REFER TO DIVISION 23 SPECIFICATIONS. REFER TO DETAIL SHEETS FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
- ALL DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS. CONSTRUCT ALL DUCTWORK DOWNSTREAM OF TERMINAL UNITS TO SMACNA 2 IN. PRESSURE CLASSIFICATION, AND ALL UPSTREAM OF TERMINAL UNITS TO SMACNA 6 IN. PRESSURE CLASSIFICATION UNLESS OTHERWISE INDICATED. SEAL ALL DUCTWORK TO SMACNA TYPE A SEAL CLASS UNLESS OTHERWISE INDICATED.
- COORDINATE LOCATION OF WALL-MOUNTED CONTROLS WITH ARCHITECT PRIOR TO ROUGH-IN AND INSTALL PER DETAIL UNLESS OTHERWISE INDICATED.
- DO NOT RUN AIR HANDLERS OR FANS UNTIL ALL INTERIOR CLEANING IS COMPLETE. CLEAN OR REPLACE ANY EQUIPMENT, DUCTWORK, ETC., WHICH IS FOULED DUE TO PAINT OR CONSTRUCTION DEBRIS.

GENERAL NOTES - PLUMBING DEMOLITION

- REFER TO DRAWINGS FOR THE EXTENT OF WALL & CEILING DEMOLITION INCLUDED IN THE SCOPE OF WORK. DASHED LIGHT LINES INDICATE PLUMBING WORK TO BE REMOVED.
- REMOVE ALL ITEMS NORMALLY INSTALLED BY THIS TRADE IN WALLS TO BE DEMOLISHED & AS OTHERWISE REQUIRED BY THE SCOPE OF WORK. PATCH ANY OPENINGS IN FLOORS, WALLS, ROOF, ETC. CREATED AS A RESULT OF THIS DEMOLITION, TO MATCH SURROUNDING CONSTRUCTION.
- REMOVE EXISTING FIXTURES, TRIM, ETC. AS INDICATED BY THE DRAWINGS AND AS REQUIRED BY THE SCOPE OF WORK. SALVAGE ALL FIXTURES TO BE REUSED AS PART OF THE SCOPE OF WORK. CLEAN AND STORE FOR REINSTALLATION. OFFER ALL FIXTURES NOT REUSED TO THE OWNER; IF THE OWNER DOES NOT WANT THEM, REMOVE AND DISPOSE OF PROPERLY.
- REMOVE ALL UNNEEDED AND/OR ABANDONED MATERIALS & EQUIPMENT BACK TO THE LIMITS OF CONSTRUCTION OR THE NEAREST POINT AT WHICH THE ITEM IS REQUIRED TO REMAIN IN SERVICE. CAP AS APPROPRIATE. REINSULATE ALL EXISTING PIPING WHEREVER INSULATION IS DISTURBED BY THE DEMOLITION.
- OFFER ANY EQUIPMENT TO BE REMOVED TO OWNER AT LEAST TWO WEEKS PRIOR TO REMOVAL. PREPARE ANY SUCH EQUIPMENT WHICH OWNER WANTS TO RETAIN FOR REMOVAL BY OWNER, SO IT IS READY TO BE HOISTED OR MOVED.

GENERAL NOTES - PLUMBING

- REFER TO LEGEND SHEET FOR LEGEND, ABBREVIATIONS, & GENERAL MECHANICAL NOTES, RE: SPECIFICATIONS.
- REFER TO THE PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPING TO INDIVIDUAL FIXTURES. MINIMUM CW & HW PIPE SIZE IS 3/4", VENT IS 2", & WASTE IS 4" UNLESS OTHERWISE INDICATED.
- AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT, LAY OUT EXACT ROUGH-IN LOCATIONS OF ALL FIXTURES, DRAINS, WALL & FLOOR PENETRATIONS, ETC. PRIOR TO BEGINNING CUTTING OR CORING OPERATIONS. MAKE ADJUSTMENTS AS REQUIRED TO CLEAR STRUCTURAL OR OTHER OBSTRUCTIONS.
- HEAVY LINES INDICATE NEW WORK; LIGHT LINES INDICATE APPROXIMATE EXISTING CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ROUGH-IN.



DATE	REVISION

DRAWN BY: SL
PROJECT NO.: 39605
DATE: 01/24/2018
CHECKED BY: RCF
SHEET:

SINGLE PACKAGED AIR CONDITIONING UNIT - GAS HEAT SCHEDULE

MARK (RTU)	SERVING	NOMINAL TONS	REFRIG.	VOLTS/PH	MCA / MOCP	EER / SEER	COMPRESSOR				CONDENSER				FAN										COOLING COIL					HEATING (NATURAL GAS)			WEGHT LB	EXISTING UNIT MODEL #	REMARKS
							NO.	MAX. SUCT °F	MAX. COND °F	EAT °F	TOTAL CFM	OA CFM	EXT SP IN. H ₂ O	MOTOR HP	DRIVE TYPE	EDB °F	EWB °F	MIN. GSH BTUH	MIN. GLH BTUH	MIN. GTH BTUH	MIN. # ROWS	INPUT BTUH	MIN. EFFIC.	MIN. # STAGES											
A1	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A2	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A3	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A4	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A5	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,200	360	0.75	1	BELT	75"	63"	27,722	9,778	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A6	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A7	CLASSROOM	5	R-410	208/3	25 / 35	11.8 / 14	1	50"	125"	105"	1,350	390	0.75	1	BELT	75"	63"	40,453	21,447	61,900	3	108,000	80%	2	700	TRANE YHC060	LENNOX KGB060S4B, NOTES 1,2,3,5,11								
A8	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A9	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	375	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,5,11								
A10	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A11	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A12	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A13	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A14	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A15	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,560	375	0.75	1	BELT	75"	63"	36,224	13,776	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A16	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	450	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A17	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A18	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,700	360	0.75	1	BELT	75"	63"	38,281	11,719	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A19	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A20	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,700	360	0.75	1	BELT	75"	63"	38,281	11,719	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A21	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,11								
A22	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	375	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,11								
A23	ENTRIES	10	R-410	208/3	43 / 50	12 / 13	1	50"	125"	105"	4,000	90	0.75	2	BELT	75"	63"	88,500	29,500	118,000	3	108,000	80%	2	1,200	TRANE YHC120	LENNOX KGB120H4B NOTES 1,2,3,5,11								
A24	COMMONS	10	R-410	208/3	46 / 50	12 / 13	1	50"	125"	105"	4,000	780	0.75	2	BELT	75"	63"	87,500	24,700	112,200	3	108,000	80%	2	1,200	TRANE YHC120	LENNOX LGH120H4B NOTES 1,2,3,5,6,11								
A25	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	255	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,5,11								
A26	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,10,11								
A27	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,10,11								
A28	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,5,9,10,11								
A29	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,5,9,10,11								
A30	CLASSROOM	4	R-410	208/3	21 / 30	11.5 / 14	1	50"	125"	105"	1,800	360	0.75	1	BELT	75"	63"	39,839	10,161	50,000	3	65,000	80%	1	600	TRANE YHC048	LENNOX KGB048S4B, NOTES 1,2,3,5,9,10,11								
A31	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,350	360	0.75	1	BELT	75"	63"	29,887	7,613	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,5,9,10,11								
A32	CLASSROOM	3	R-410	208/3	18 / 25	12.5 / 14	1	50"	125"	105"	1,200	500	0.75	1	BELT	75"	63"	27,722	9,778	37,500	3	65,000	80%	1	600	TRANE YHC036	LENNOX KGB036S4B, NOTES 1,2,3,5,9,11								
RTU-1	MEDIA CENTER	7.5	R-410	208/3	39 / 45	12.5 / 13	1	50"	125"	105"	2,500	500	0.75	2	BELT	80.4"	66"	63,940	20,000	83,940	3	130,000	80%	1	1,100	CARRIER 48HJD008	LENNOX LGH092H4B, NOTES 1,2,4,5,6,8,11								
RTU-2	MEDIA CENTER	7.5	R-410	208/3	39 / 45	12.2 / 12.9	1	50"	125"	105"	2,850	400	0.75	2	BELT	79.1"	66"	65,990	20,110	86,100	3	130,000	80%	1	1,100	CARRIER 48HJD009	LENNOX LGH102H4B, NOTES 1,2,4,5,6,8,11								
RTU-3	MEDIA CENTER	7.5	R-410	208/3	39 / 45	12.2 / 12.9	1	50"	125"	105"	2,850	465	0.75	2	BELT	79.5"	66"	65,990	20,110	86,100	3	130,000	80%	1	1,100	CARRIER 48HJD009	LENNOX LGH102H4B, NOTES 1,2,4,5,6,8,11								
RTU-4	ADMIN AREA	5	R-410	208/3	28 / 40	12.8 / 17.6	1	50"	125"	105"	1,500	300	0.75	1	BELT	79.3"	66"	40,200	15,670	55,870	3	65,000	80%	1	600	CARRIER 48HJD005	LENNOX LGH048S4B, NOTES 1,2,4,5,6,8,11								
RTU-5	KITCHEN	6	R-410	208/3	32 / 45	12 / 13.5	1	50"	125"	105"	2,200	100	0.75	1	BELT	76"	64"	52,540	16,135	68,675	3	65,000	80%	1	700	CARRIER 48HJD007	LENNOX LGH072S4B, NOTES 1,2,5,6,7,8,11								

- NOTES:
 1. FURNISH WITH FACTORY INSTALLED DISCONNECT SWITCH. PROVIDE STAINLESS STEEL HEAT EXCHANGER AND OVERFLOW DRAIN PAN SWITCH.
 2. CAPACITIES AT NET A.R.I. CONDITIONS.
 3. PROVIDE WITH CUSTOM ROOF CURB ADAPTOR. EXISTING UNITS ARE TRANE YCH.
 4. PROVIDE WITH CUSTOM ROOF CURB ADAPTOR. EXISTING UNITS ARE CARRIER 48HJ.
 5. PROVIDE UNIT WITH FACTORY MOUNTED SINGLE STAGE SENSIBLE ECONOMIZER.
 6. PROVIDE UNIT WITH HOT GAS REHEAT COIL.
 7. PROVIDE WITH CUSTOM ROOF CURB ADAPTOR. EXISTING UNITS ARE CARRIER 48TJD.
 8. PROVIDE UNIT WITH FACTORY MOUNTED OUTSIDE AIR HOOD AND DAMPER.
 9. RTU IN HORIZONTAL DISCHARGE POSITION.
 10. RTU TO BE REPLACED IN PHASE 2.
 11. FURNISH UNIT WITH FACTORY INSTALLED, NON-POWERED, WEATHER RESISTANT, WEATHER-PROOF GFCI RECEPTACLE.

VALENT HEAT RECOVERY UNIT SCHEDULE - PHASE 2

MARK	MANUFACTURES Model #	CONFIG.	AIR PATH	FAN					ELECTRICAL				HP ENTHALPY CORE RECOVERY EXCHANGER								COOLING COIL (DX)						HOT GAS REHEAT COIL				HEATING NATRAL GAS					NOTES		
				CFM	RETURN AIR	SUPPLY AIR	EXT. SP IN. H ₂ O	DRIVE TYPE	MOTOR BHP	MOTOR HP	VOLTS/PH	FLA	MCA	MOCP	EDB °F	EWB °F	LDB °F	LWB °F	EDB °F	EWB °F	LDB °F	LWB °F	MBH TOTAL	MBH SENSIBLE	ROW	SP IN. H ₂ O	FACE VEL	EDB °F	EWB °F	LDB °F	LWB °F	CAP MBH	MBH INPUT	MBH OUTPUT	TEMP RISE °F		TURN DOWN	APPROX. WEIGHT
ARTU-1	VPRC-352-30F-601-A-1GD	DOWN FLOW	OA EXH	4100	5800	9900	0.75	DIRECT	3 @ 2.03	3 @ 3	208 / 3	134	171	175	98	78	78.5	65.7	78.5	65.7	55.3	54.2	351.5	252.2	4	0.3	440	55.3	54.2	74	61.7	175	600	480	56	10:01	11,120	1,2,3,4,5,6,7,8,9,10,11

- NOTES:
 1. VALENT IS BASIS OF DESIGN
 2. FURNISH W/ SINGLE POINT POWER CONNECTIONS W/ BREAKER STYLE DISCONNECT SWITCH.
 3. FURNISH W/ FARR 30/30 MERV 8 2 INCH FILTERS OR EQUIVALENT.
 4. ROOF MOUNTED UNIT, PROVIDE 18" ROOF CURB COMPATIBLE WITH ROOF SYSTEM.
 5. ALL SUPPLY FANS SHALL BE IN THE DRAW THRU POSITION.
 6. PROVIDE UNIT MOUNTED GFCI 120 VOLT POWER BY THE UNIT MANUFACTURE.
 7. PROVIDE UNIT WITH TWO TANDOM SETS OF SCROLL COMPRESSORS FOR FOUR STAGES OF COOLING.
 8. PROVIDE VARIABLE SPEED DRIVES FOR SUPPLY AND EXHAUST FANS.
 9. PROVIDE UNIT WITH THE dPOINT ENTHALPY POLYMER PLATE EXCHANGER.
 10.98 / 78 O/A CONDITIONS & 76 / 63 R/A CONDITIONS.
 11. PROVIDE UNIT WITH DRAIN PAN OVERFLOW SWITCH.

ME ENGINEERING, INC.
 1102 Capital of Texas Drive South
 Suite 200
 Austin, Texas 78746
 (512) 382-9696
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CEDAR CREEK ELEMENTARY - HVAC RENOVATION
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DATE	REVISION



2 2ND FLOOR PLAN - AREA A - DEMOLITION
SCALE: 1/16" = 1'-0"

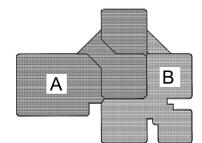
1 1ST FLOOR PLAN - AREAS A & B - DEMOLITION
SCALE: 1/16" = 1'-0"

GENERAL NOTES - HVAC DEMOLITION

- GENERAL NOTES APPLY TO ALL DEMOLITION VIEWS.
- REFER TO DRAWINGS FOR THE EXTENT OF WALL & CEILING DEMOLITION INCLUDED IN THE SCOPE OF WORK. REFER TO DETAIL SHEETS FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
- REMOVE ALL ITEMS NORMALLY INSTALLED BY THIS TRADE IN WALLS TO BE DEMOLISHED & AS OTHERWISE REQUIRED BY THE SCOPE OF WORK. PATCH ANY OPENINGS IN FLOORS, WALLS, ROOF, ETC. CREATED AS A RESULT OF THIS DEMOLITION, TO MATCH SURROUNDING CONSTRUCTION.
- REMOVE ALL UNNEEDED AND/OR ABANDONED MATERIALS & EQUIPMENT BACK TO THE LIMITS OF CONSTRUCTION OR THE NEAREST POINT AT WHICH THE ITEM IS REQUIRED TO REMAIN IN SERVICE. CAP AS APPROPRIATE. REINSULATE DUCTWORK WHEREVER INSULATED DUCTWORK IS PATCHED, CAPPED, ETC.
- REFER TO THE LEGEND SHEET FOR LEGEND, ABBREVIATIONS, & GENERAL MECHANICAL NOTES. REFER TO DIVISION 23 SPECIFICATIONS.
- HEAVY LINES INDICATE NEW WORK; LIGHT LINES INDICATE APPROXIMATE EXISTING CONDITIONS. FIELD VERIFY PRIOR TO BIDDING.
- COORDINATE ALL WORK SCHEDULING WITH ARCHITECT PRIOR TO BIDDING TO DETERMINE THE EXTENT OF AFTER-HOURS WORK REQUIRED, & INCLUDE SUCH AFTER-HOURS WORK.
- USE GALVANIZED STEEL FOR ALL DUCTWORK, WITH 2 IN. THICK, 3/4 LB. DENSITY BLANKET WRAP INSULATION UNLESS OTHERWISE INDICATED. DO NOT INSULATE EXHAUST DUCTWORK UNLESS OTHERWISE INDICATED.
- COORDINATE LOCATION OF WALL-MOUNTED CONTROLS WITH ARCHITECT PRIOR TO ROUGH-IN.
- MOUNT WALL SENSORS 48 IN. AFF. 8 IN. TO ONE SIDE OF LIGHT SWITCHES WHERE BOTH OCCUR IN THE SAME LOCATION, UNLESS OTHERWISE INDICATED.
- DO NOT RUN AIR HANDLERS OR FANS UNTIL ALL INTERIOR CLEANING & PAINTING IS COMPLETE. CLEAN OR REPLACE ANY EQUIPMENT, DUCTWORK, ETC., WHICH IS FOULED DUE TO PAINT OR CONSTRUCTION DEBRIS.
- WHERE WORK IS ADJACENT TO OCCUPIED SPACE, KEEP CONSTRUCTION AREA AT A NEGATIVE PRESSURE RELATIVE TO SUCH SPACES, & FILTER DISCHARGE AIR AS REQUIRED TO CONTAIN DUST.

KEYED NOTES

- REMOVE TEMPERATURE SENSOR.
- EXISTING TEMPERATURE SENSOR AND HUMIDITY SENSOR TO REMAIN.
- EXISTING TEMPERATURE SENSOR TO BE REMOVED IN PHASE 2.



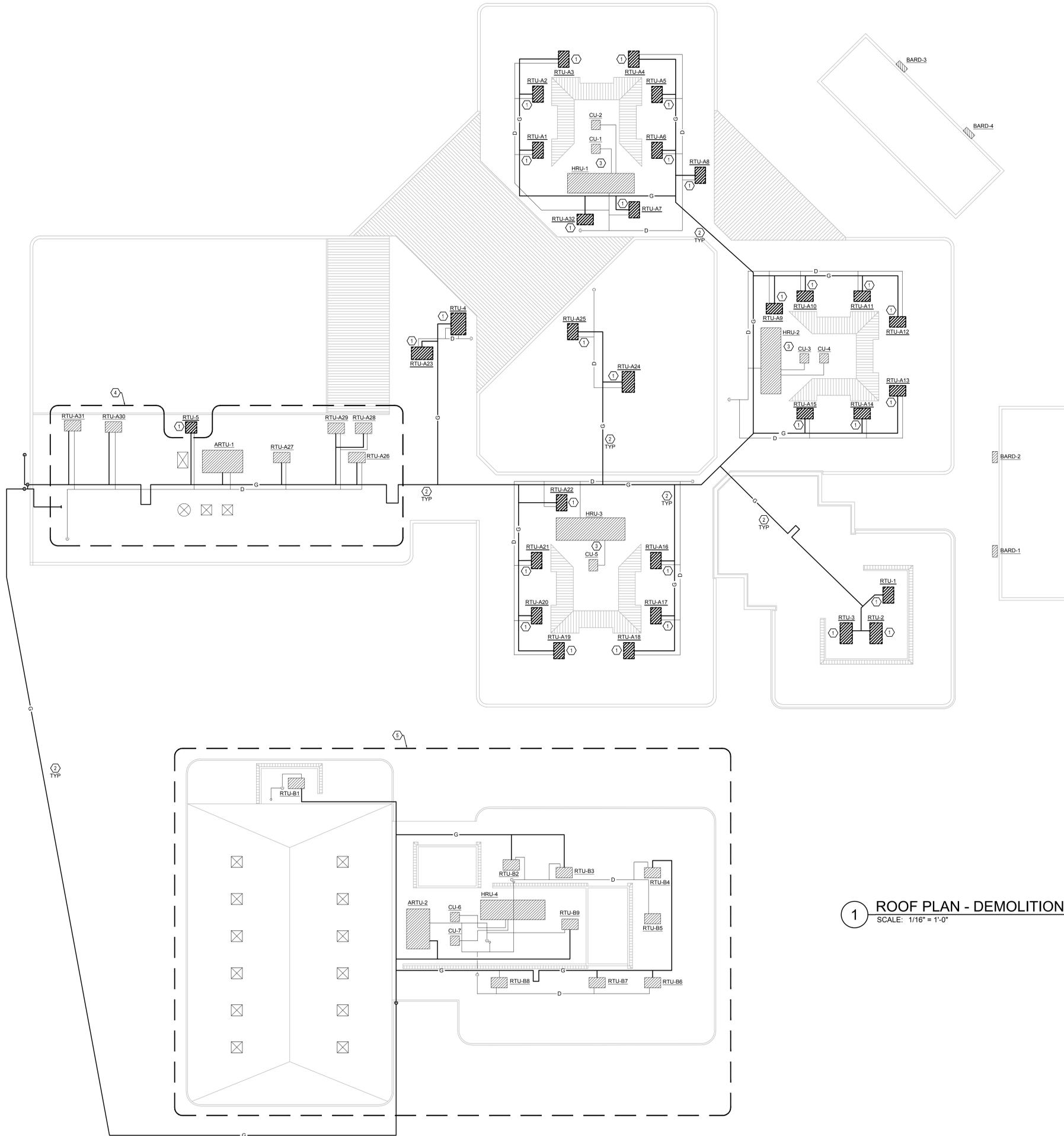
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1 ROOF PLAN - DEMOLITION
SCALE: 1/16" = 1'-0"

GENERAL NOTES - HVAC DEMOLITION

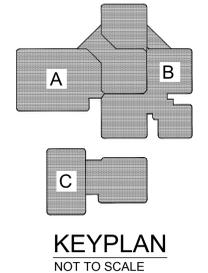
1. GENERAL NOTES APPLY TO ALL DEMOLITION VIEWS.
2. REFER TO DRAWINGS FOR THE EXTENT OF WALL & CEILING DEMOLITION INCLUDED IN THE SCOPE OF WORK. REFER TO DETAIL SHEETS FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
3. REMOVE ALL ITEMS NORMALLY INSTALLED BY THIS TRADE IN WALLS TO BE DEMOLISHED & AS OTHERWISE REQUIRED BY THE SCOPE OF WORK. PATCH ANY OPENINGS IN FLOORS, WALLS, ROOF, ETC. CREATED AS A RESULT OF THIS DEMOLITION, TO MATCH SURROUNDING CONSTRUCTION.
4. REMOVE ALL UNNEEDED AND/OR ABANDONED MATERIALS & EQUIPMENT BACK TO THE LIMITS OF CONSTRUCTION OR THE NEAREST POINT AT WHICH THE ITEM IS REQUIRED TO REMAIN IN SERVICE. CAP AS APPROPRIATE. REINSULATE ALL EXISTING DUCTWORK WHEREVER INSULATED DUCTWORK IS PATCHED, CAPPED, ETC.
5. REFER TO THE LEGEND SHEET FOR LEGEND, ABBREVIATIONS, & GENERAL MECHANICAL NOTES. REFER TO DIVISION 23 SPECIFICATIONS.
6. HEAVY LINES INDICATE NEW WORK. LIGHT LINES INDICATE APPROXIMATE EXISTING CONDITIONS. FIELD VERIFY PRIOR TO BIDDING.
7. COORDINATE ALL WORK SCHEDULING WITH ARCHITECT PRIOR TO BIDDING TO DETERMINE THE EXTENT OF AFTER-HOURS WORK REQUIRED, & INCLUDE SUCH AFTER-HOURS WORK.
8. USE GALVANIZED STEEL FOR ALL DUCTWORK, WITH 2 IN. THICK, 34 LB. DENSITY BLANKET WRAP INSULATION UNLESS OTHERWISE INDICATED. DO NOT INSULATE EXHAUST DUCTWORK UNLESS OTHERWISE INDICATED.
9. COORDINATE LOCATION OF WALL-MOUNTED CONTROLS WITH ARCHITECT PRIOR TO ROUGH-IN.
10. MOUNT WALL SENSORS 48 IN. AFF. 8 IN. TO ONE SIDE OF LIGHT SWITCHES WHERE BOTH OCCUR IN THE SAME LOCATION, UNLESS OTHERWISE INDICATED.
11. DO NOT RUN AIR HANDLERS OR FANS UNTIL ALL INTERIOR CLEANING & PAINTING IS COMPLETE. CLEAN OR REPLACE ANY EQUIPMENT, DUCTWORK, ETC., WHICH IS FOULED DUE TO PAINT OR CONSTRUCTION DEBRIS.
12. WHERE WORK IS ADJACENT TO OCCUPIED SPACE, KEEP CONSTRUCTION AREA AT A NEGATIVE PRESSURE RELATIVE TO SUCH SPACES, & FILTER DISCHARGE AIR AS REQUIRED TO CONTAIN DUST.

GENERAL NOTES - PLUMBING DEMOLITION

1. REFER TO DRAWINGS FOR THE EXTENT OF WALL & CEILING DEMOLITION INCLUDED IN THE SCOPE OF WORK. DASHED LIGHT LINES INDICATE PLUMBING WORK TO BE REMOVED.
2. REMOVE ALL ITEMS NORMALLY INSTALLED BY THIS TRADE IN WALLS TO BE DEMOLISHED & AS OTHERWISE REQUIRED BY THE SCOPE OF WORK. PATCH ANY OPENINGS IN FLOORS, WALLS, ROOF, ETC. CREATED AS A RESULT OF THIS DEMOLITION, TO MATCH SURROUNDING CONSTRUCTION.
3. REMOVE EXISTING FIXTURES, TRIM, ETC. AS INDICATED BY THE DRAWINGS AND AS REQUIRED BY THE SCOPE OF WORK. SALVAGE ALL FIXTURES TO BE REUSED AS PART OF THE SCOPE OF WORK, CLEAN AND STORE FOR REINSTALLATION. OFFER ALL FIXTURES NOT REUSED TO THE OWNER; IF THE OWNER DOES NOT WANT THEM, REMOVE AND DISPOSE OF PROPERLY.
4. REMOVE ALL UNNEEDED AND/OR ABANDONED MATERIALS & EQUIPMENT BACK TO THE LIMITS OF CONSTRUCTION OR THE NEAREST POINT AT WHICH THE ITEM IS REQUIRED TO REMAIN IN SERVICE. CAP AS APPROPRIATE. REINSULATE ALL EXISTING PIPING WHEREVER INSULATION IS DISTURBED BY THE DEMOLITION.
5. OFFER ANY EQUIPMENT TO BE REMOVED TO OWNER AT LEAST TWO WEEKS PRIOR TO REMOVAL. PREPARE ANY SUCH EQUIPMENT WHICH OWNER WANTS TO RETAIN FOR REMOVAL BY OWNER, SO IT IS READY TO BE HOISTED OR MOVED.

KEYED NOTES

1. REMOVE EXISTING ROOF TOP UNIT. CAP GAS AND CONDENSATE PIPING FOR FUTURE RECONNECTION. PRESERVE ROOF CURB FOR FUTURE USE. SEAL DUCTS BELOW UNIT DURING DEMOLITION AND CONSTRUCTION PHASES.
2. EXISTING GAS PIPING TO REMAIN.
3. EXISTING HEAT RECOVERY UNIT AND ASSOCIATED CONDENSING UNITS TO REMAIN.
4. EQUIPMENT IN THIS AREA TO BE REPLACED IN PHASE 2.
5. AREA C IS NOT WITHIN THE SCOPE OF THIS CONTRACT.



TRUE Registered Engineering Firm F-342
ENGINEERING, INC.
 1120 Capital of Texas Hwy, South
 Building 1, Suite 120
 Austin, Texas 78746
 (512) 399-9499

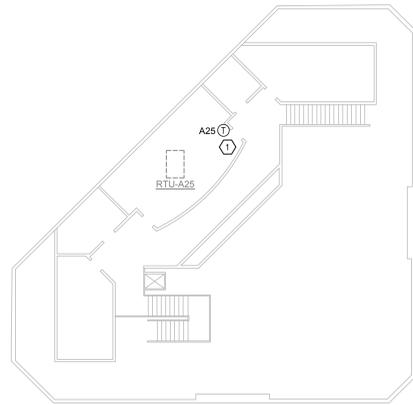
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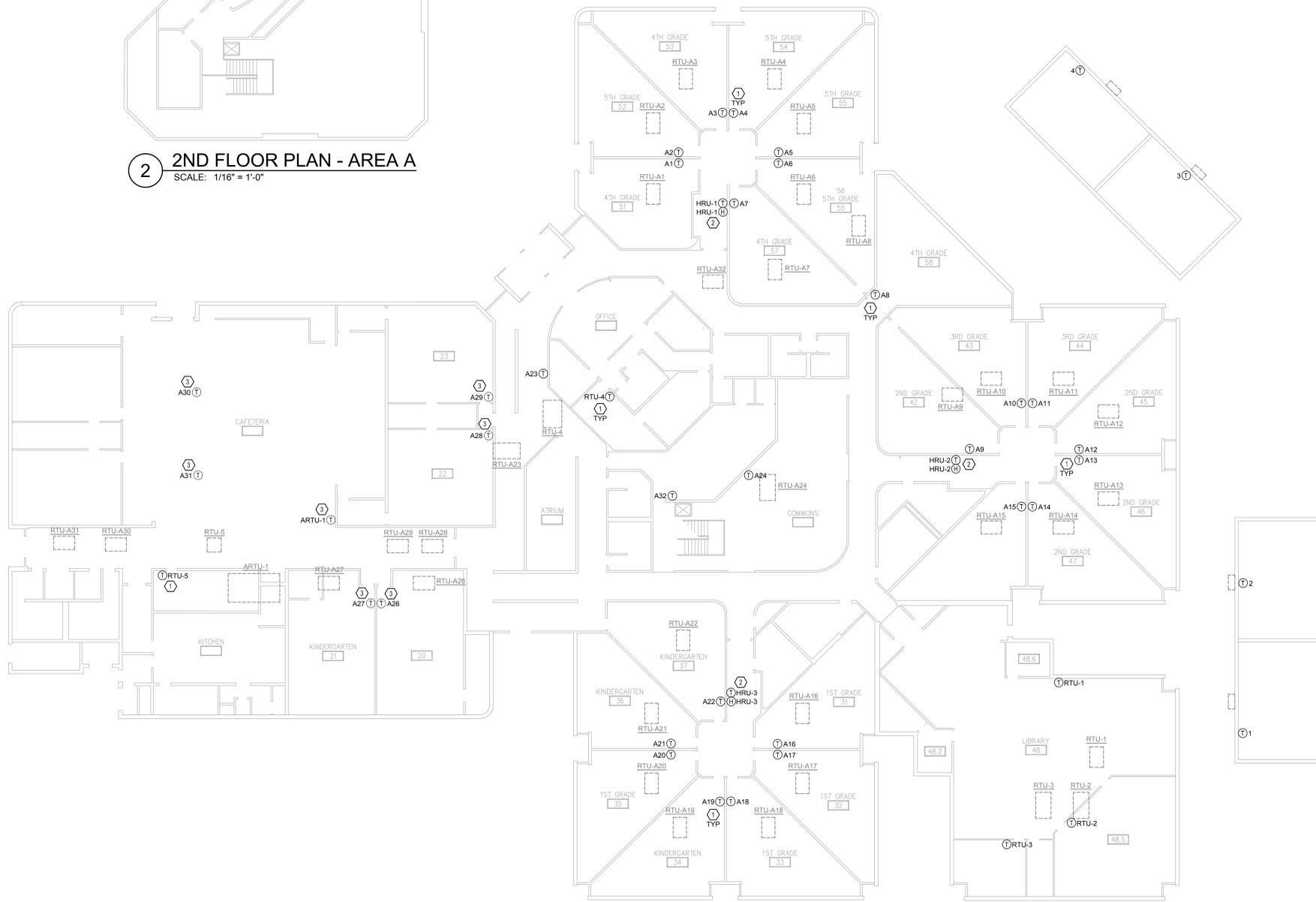
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2 2ND FLOOR PLAN - AREA A
SCALE: 1/16" = 1'-0"



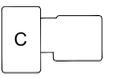
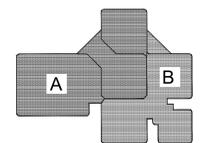
1 1ST FLOOR PLAN - AREAS A & B
SCALE: 1/16" = 1'-0"

GENERAL NOTES - HVAC

1. GENERAL NOTES APPLY TO ALL RENOVATION VIEWS.
2. REFER TO DIVISION 23 SPECIFICATIONS. REFER TO DETAIL SHEETS FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
3. ALL DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS. CONSTRUCT ALL DUCTWORK DOWNSTREAM OF TERMINAL UNITS TO SMACNA 2 IN. PRESSURE CLASSIFICATION, AND ALL UPSTREAM OF TERMINAL UNITS TO SMACNA 6 IN. PRESSURE CLASSIFICATION UNLESS OTHERWISE INDICATED. SEAL ALL DUCTWORK TO SMACNA TYPE A SEAL CLASS UNLESS OTHERWISE INDICATED.
4. COORDINATE LOCATION OF WALL-MOUNTED CONTROLS WITH ARCHITECT PRIOR TO ROUGH-IN AND INSTALL PER DETAIL UNLESS OTHERWISE INDICATED.
5. DO NOT RUN AIR HANDLERS OR FANS UNTIL ALL INTERIOR CLEANING IS COMPLETE. CLEAN OR REPLACE ANY EQUIPMENT, DUCTWORK, ETC., WHICH IS FOULED DUE TO PAINT OR CONSTRUCTION DEBRIS.

KEYED NOTES

1. FURNISH AND INSTALL NEW TEMPERATURE SENSOR AT THIS LOCATION.
2. EXISTING TEMPERATURE SENSOR AND HUMIDITY SENSOR TO REMAIN.
3. EXISTING TEMPERATURE SENSOR TO BE REPLACED IN PHASE 2.



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EXISTING PANELBOARD AC-1

VOLTAGE: 208Y120 VOLT 3 PHASE 4 WIRE LOCATION: ROOF
250A MAIN LUGS ONLY MOUNTING: N3R SURFACE
BUSES: MAIN - 250A NEUTRAL - 100% EQUIPMENT GROUND ISc = 65,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	CKT	BKR	LOAD	VAL	VAR	VAO
0	0	2328	RTU-A1	25/3	1	2	30/3	RTU-A2	0	0	2796
0	0	2328	"	"	3	4	"	"	0	0	2796
0	0	2328	"	"	5	6	"	"	0	0	2796
0	0	2328	RTU-A3	25/3	7	8	25/3	RTU-A4	0	0	2328
0	0	2328	"	"	9	10	"	"	0	0	2328
0	0	2328	"	"	11	12	"	"	0	0	2328
0	0	2328	RTU-A5	25/3	13	14	25/3	RTU-A6	0	0	2328
0	0	2328	"	"	15	16	"	"	0	0	2328
0	0	2328	"	"	17	18	"	"	0	0	2328
0	0	2796	RTU-A8	30/3	19	20	20/1	SPACE	0	0	0
0	0	2796	"	"	21	22	20/1	SPACE	0	0	0
0	0	2796	"	"	23	24	20/1	SPACE	0	0	0
0	1260	0	ROOF RECEPTACLES	20/1	25	26	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	27	28	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	29	30	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	31	32	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	33	34	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	35	36	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	37	38	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	39	40	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	41	42	20/1	SPACE	0	0	0

VAL (LIGHTING) 0 CONNECTED 0 DEMAND
VAR (RECEPTACLES) 1260 CONNECTED 1260 DEMAND
VAO (OTHER) 51696 CONNECTED 41567 DEMAND
VA TOTAL 52956 CONNECTED 42617 DEMAND
AMPS TOTAL 147 CONNECTED 118 DEMAND

L	R	O	TOTAL
0	1260	17232	VA CONNECTED TO A PHASE 18492 VA = 154 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	0	17232	VA CONNECTED TO B PHASE 17232 VA = 144 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	17232	VA CONNECTED TO C PHASE 17232 VA = 144 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	1260	51956	TOTAL 52956 VA

EXISTING PANELBOARD AC-4

VOLTAGE: 208Y120 VOLT 3 PHASE 4 WIRE LOCATION: ROOF
250A MAIN LUGS ONLY MOUNTING: N3R SURFACE
BUSES: MAIN - 250A NEUTRAL - 100% EQUIPMENT GROUND ISc = 65,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	CKT	BKR	LOAD	VAL	VAR	VAO
0	0	0	SPARE	45/3	1	2	60/3	SPARE	0	0	0
0	0	0	"	"	3	4	"	"	0	0	0
0	0	0	"	"	5	6	"	"	0	0	0
0	0	2328	RTU-A25	25/3	7	8	25/3	RTU-A32	0	0	2328
0	0	2328	"	"	9	10	"	"	0	0	2328
0	0	2328	"	"	11	12	"	"	0	0	2328
0	0	3000	RTU-A7	35/3	13	14	50/3	RTU-A24	0	0	5160
0	0	3000	"	"	15	16	"	"	0	0	5160
0	0	3000	"	"	17	18	"	"	0	0	5160
0	720	0	ROOF RECEPTACLES	20/1	19	20	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	21	22	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	23	24	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	25	26	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	27	28	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	29	30	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	31	32	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	33	34	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	35	36	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	37	38	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	39	40	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	41	42	20/1	SPACE	0	0	0

VAL (LIGHTING) 0 CONNECTED 0 DEMAND
VAR (RECEPTACLES) 720 CONNECTED 720 DEMAND
VAO (OTHER) 38448 CONNECTED 30758 DEMAND
VA TOTAL 39168 CONNECTED 31478 DEMAND
AMPS TOTAL 109 CONNECTED 87 DEMAND

L	R	O	TOTAL
0	720	12816	VA CONNECTED TO A PHASE 13536 VA = 113 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	0	12816	VA CONNECTED TO B PHASE 12816 VA = 107 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	12816	VA CONNECTED TO C PHASE 12816 VA = 107 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	720	38448	TOTAL 39168 VA

KEYED NOTES

- INSTALL NEW CIRCUIT BREAKER(S) IN AVAILABLE SPACE. EXISTING PANEL IS SQUARE D H LINE WITH FG3A3000 CIRCUIT BREAKERS.
- CIRCUIT BREAKER TO BECOME SPARE.

EXISTING PANELBOARD AC-2

VOLTAGE: 208Y120 VOLT 3 PHASE 4 WIRE LOCATION: ROOF
250A MAIN LUGS ONLY MOUNTING: N3R SURFACE
BUSES: MAIN - 250A NEUTRAL - 100% EQUIPMENT GROUND ISc = 65,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	CKT	BKR	LOAD	VAL	VAR	VAO
0	0	2328	RTU-A9	25/3	1	2	25/3	RTU-A10	0	0	2328
0	0	2328	"	"	3	4	"	"	0	0	2328
0	0	2328	"	"	5	6	"	"	0	0	2328
0	0	2292	RTU-A11	25/3	7	8	25/3	RTU-A12	0	0	2328
0	0	2292	"	"	9	10	"	"	0	0	2328
0	0	2292	"	"	11	12	"	"	0	0	2328
0	0	2328	RTU-A13	25/3	13	14	30/3	RTU-A14	0	0	0
0	0	2328	"	"	15	16	"	"	0	0	0
0	0	2328	"	"	17	18	"	"	0	0	0
0	0	2796	RTU-A15	30/3	19	20	20/1	SPACE	0	0	0
0	0	2796	"	"	21	22	20/1	SPACE	0	0	0
0	0	2796	"	"	23	24	20/1	SPACE	0	0	0
0	1260	0	ROOF RECEPTACLES	20/1	25	26	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	27	28	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	29	30	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	31	32	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	33	34	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	35	36	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	37	38	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	39	40	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	41	42	20/1	SPACE	0	0	0

VAL (LIGHTING) 0 CONNECTED 0 DEMAND
VAR (RECEPTACLES) 1260 CONNECTED 1260 DEMAND
VAO (OTHER) 43200 CONNECTED 34560 DEMAND
VA TOTAL 44460 CONNECTED 35820 DEMAND
AMPS TOTAL 123 CONNECTED 99 DEMAND

L	R	O	TOTAL
0	14400	14400	VA CONNECTED TO A PHASE 15600 VA = 131 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	14400	14400	VA CONNECTED TO B PHASE 14400 VA = 120 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	14400	14400	VA CONNECTED TO C PHASE 14400 VA = 120 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	14400	43200	TOTAL 44460 VA

EXISTING PANELBOARD AC-7

VOLTAGE: 208Y120 VOLT 3 PHASE 4 WIRE LOCATION: ROOF
250A MAIN LUGS ONLY MOUNTING: N3R SURFACE
BUSES: MAIN - 250A NEUTRAL - 100% EQUIPMENT GROUND ISc = 65,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	CKT	BKR	LOAD	VAL	VAR	VAO
0	0	2796	RTU-A26	30/3	1	2	30/3	RTU-A27	0	0	2796
0	0	2796	"	"	3	4	"	"	0	0	2796
0	0	2796	"	"	5	6	"	"	0	0	2796
0	0	2328	RTU-A28	25/3	7	8	25/3	RTU-A29	0	0	2328
0	0	2328	"	"	9	10	"	"	0	0	2328
0	0	2328	"	"	11	12	"	"	0	0	2328
0	0	0	SPACE	60/3	13	14	20/1	SPACE	0	0	0
0	0	0	"	"	15	16	20/1	SPACE	0	0	0
0	0	0	"	"	17	18	20/1	SPACE	0	0	0
0	0	5160	RTU-A23	30/3	19	20	20/1	SPACE	0	0	0
0	0	5160	"	"	21	22	20/1	SPACE	0	0	0
0	0	5160	"	"	23	24	20/1	SPACE	0	0	0
0	1440	0	ROOF RECEPTACLES	20/1	25	26	20/1	SPACE	0	0	0
0	360	0	ROOF RECEPTACLES	20/1	27	28	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	29	30	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	31	32	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	33	34	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	35	36	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	37	38	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	39	40	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	41	42	20/1	SPACE	0	0	0

VAL (LIGHTING) 0 CONNECTED 0 DEMAND
VAR (RECEPTACLES) 1800 CONNECTED 1800 DEMAND
VAO (OTHER) 48116 CONNECTED 36893 DEMAND
VA TOTAL 47916 CONNECTED 38693 DEMAND
AMPS TOTAL 133 CONNECTED 107 DEMAND

L	R	O	TOTAL
0	1440	15372	VA CONNECTED TO A PHASE 16812 VA = 140 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	360	15372	VA CONNECTED TO B PHASE 15732 VA = 131 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	15372	VA CONNECTED TO C PHASE 15372 VA = 128 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	1800	48116	TOTAL 47916 VA

EXISTING PANELBOARD AC-3

VOLTAGE: 208Y120 VOLT 3 PHASE 4 WIRE LOCATION: ROOF
250A MAIN LUGS ONLY MOUNTING: N3R SURFACE
BUSES: MAIN - 250A NEUTRAL - 100% EQUIPMENT GROUND ISc = 65,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	CKT	BKR	LOAD	VAL	VAR	VAO
0	0	2796	RTU-A16	30/3	1	2	25/3	RTU-A17	0	0	2328
0	0	2796	"	"	3	4	"	"	0	0	2328
0	0	2796	"	"	5	6	"	"	0	0	2328
0	0	2796	RTU-A18	30/3	7	8	30/3	RTU-A19	0	0	2796
0	0	2796	"	"	9	10	"	"	0	0	2796
0	0	2796	"	"	11	12	"	"	0	0	2796
0	0	2796	RTU-A20	30/3	13	14	30/3	RTU-A21	0	0	2796
0	0	2796	"	"	15	16	"	"	0	0	2796
0	0	2796	"	"	17	18	"	"	0	0	2796
0	0	2160	RTU-A22	25/3	19	20	20/1	SPACE	0	0	0
0	0	2160	"	"	21	22	20/1	SPACE	0	0	0
0	0	2160	"	"	23	24	20/1	SPACE	0	0	0
0	1260	0	ROOF RECEPTACLES	20/1	25	26	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	27	28	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	29	30	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	31	32	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	33	34	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	35	36	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	37	38	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	39	40	20/1	SPACE	0	0	0
0	0	0	SPACE	20/1	41	42	20/1	SPACE	0	0	0

VAL (LIGHTING) 0 CONNECTED 0 DEMAND
VAR (RECEPTACLES) 1260 CONNECTED 1260 DEMAND
VAO (OTHER) 55404 CONNECTED 44323 DEMAND
VA TOTAL 56964 CONNECTED 45646 DEMAND
AMPS TOTAL 157 CONNECTED 127 DEMAND

L	R	O	TOTAL
0	1260	18468	VA CONNECTED TO A PHASE 19728 VA = 164 AMPS CONNECTED TO A PHASE @ 120 VOLTS

