



MECHANICAL GENERAL NOTES

1. ASBUILTS DO NOT EXIST FOR THE BUILDING. THE EXISTING CONDITIONS SHOWN ON THE PLANS HAVE BEEN BASED UPON OBSERVATIONS MADE DURING THE SITE VISIT. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU, THE STATE HEALTH DEPARTMENT REGULATIONS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, HAWAII STATE MODEL ENERGY CODE, NFPA 13, AND ALL AGENCIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT INCLUDING CUTTING AND PATCHING AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS.
5. SUBMIT FOR REVIEW SIX COPIES OF MANUFACTURER'S LITERATURE ON ALL ITEMS FURNISHED FOR THIS WORK, INCLUDING OPERATION AND MAINTENANCE MANUALS.
6. INSTALL ALL EQUIPMENT AND MATERIALS IN A FIRST CLASS MANNER CONFORMING TO RECOGNIZED COMMERCIAL STANDARDS.
7. PAINT ALL EXPOSED MATERIALS TO MATCH ADJACENT SURFACES.
8. CONTRACTOR SHALL PATCH AND FINISH ALL EXPOSED MATERIALS AND NEW CONSTRUCTION TO MATCH EXISTING SURFACES OR AS INDICATED.
9. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE PROPERLY FIRESTOPPED WITH APPROVED MATERIALS APPROPRIATE FOR THE PENETRATION TYPE.
10. AIR CONDITIONING AND VENTILATION:

A. DUCT SIZES SHOWN ARE NET.

B. BALANCE SUPPLY AIR QUANTITIES TO PROVIDE CFM INDICATED.

C. DIFFUSERS: LOUVERED FACE WITH SURFACE FLANGE, PATTERN AS INDICATED, VOLUME CONTROL OPPOSED BLADE DAMPER, AND EXTRACTOR. FINISH SHALL BE OFF-WHITE BAKED ENAMEL. MATERIAL SHALL BE ALUMINUM. FACE PLATE SHALL BE REMOVABLE. CARNES MODEL 47 OR APPROVED EQUAL.

D. REGISTERS: FIXED PATTERN, SURFACE MOUNTED, ALL ALUMINUM, 45 DEGREE DEFLECTION TITUS MODEL 300/350, TITUS MODEL TDCA AEROBLADE OR APPROVED EQUAL FOR RETURN AND TITUS MODEL 300/350, AEROBLADE OR APPROVED EQUAL ADJUSTABLE, DOUBLE DEFLECTION, ALL ALUMINUM FOR SUPPLY.

E. DUCTWORK: GALVANIZED SHEET STEEL OF NOT LESS THAN 24 GAUGE, IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

F. AIR CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE WRAPPED WITH 1-1/2" THICK FIBERGLASS DUCT WRAP WITH FOIL KRAFT VAPOR BARRIER FACING.

G. DUCTWORK EXPOSED TO THE WEATHER SHALL BE CAULKED AND SEALED.

H. FLEX DUCT: THERMAFLEX M-KE INSULATED CLASS 1 AIR DUCT.

I. REFRIGERANT PIPING: COPPER TUBING, TYPE ACR, ASTM B280, WITH BRAZED JOINTS, SWEAT FITTINGS, AND SILVER SOLDER. INSULATE SUCTION LINES WITH 3/4" THICK IMCOA. INSTALL, TEST, EVACUATE AND CHARGE WITH R-410A IN ACCORDANCE WITH ASHRAE STD. 15.

J. CONDENSATE DRAIN PIPING: TYPE "L" COPPER TUBING WITH 1/2" IMCOA INSULATION.

K. PROVIDE 2" THICK DISPOSABLE FILTERS, FARR 30/30.

L. SUBMIT A WRITTEN TEST AND BALANCE REPORT ON THE COMPLETED SYSTEM.

M. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADEQUATE CLEARANCES FOR MAINTENANCE AND FILTER REPLACEMENT.

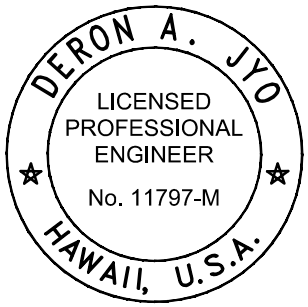
N. PROVIDE CONTROL DEVICES AND CONTROL WIRING AS INDICATED.
11. WARRANTY:

A. ALL WORK IN THIS SECTION SHALL BE UNDER WARRANTY FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK AS A WHOLE BY THE ENGINEER. SHOULD ANY EQUIPMENT OR MATERIAL FAIL WITHIN THIS PERIOD, THE CONTRACTOR SHALL REPLACE/REPAIR THAT ITEM AT NO COST TO THE OWNER FOR MATERIAL AND/OR SERVICES, IF SUCH IS DUE TO FAULTY WORKMANSHIP OR QUALITY OF MATERIAL FURNISHED.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSED BY FAILURE IN THE EQUIPMENT UNDER THIS SECTION FOR A PERIOD ON ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE WORK AS A WHOLE.

CITY AND COUNTY OF HONOLULU
REVISED ORDINANCES OF HONOLULU 1990
CHAPTER 32

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY
CONFORMS TO THE BUILDING ENERGY CONSERVATION CODE FOR:

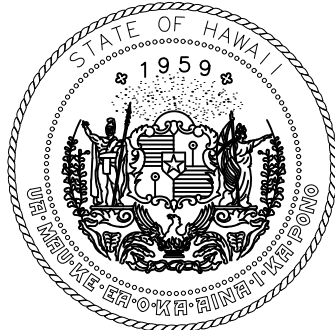


- BUILDING COMPONENT SYSTEMS
- ELECTRICAL SYSTEMS
- X

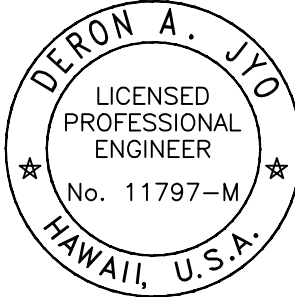
MECHANICAL SYSTEMS

SIGNATURE: Deron A Jyo DATE: 04/30/2024
NAME: DERON JYO
TITLE: MECHANICAL ENGINEER
LICENSE No.: 11797-M

MECHANICAL LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
	ACCU	AIR COOLED CONDENSING UNIT
	CD	CONDENSATE DRAIN
	CFM	CUBIC FEET PER MINUTE
	CHWR	CHILLED WATER RETURN
	CHWS	CHILLED WATER SUPPLY
Ø		DIAMETER
	DX	DIRECT EXPANSION
	FCU	FAN COIL UNIT
		FLEX DUCT
	NTS	NOT TO SCALE
	OA	OUTDOOR AIR
		PIPE DOWN
	RA	RETURN AIR
	RAG	RETURN AIR GRILLE
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	SA	SUPPLY AIR
	SAD	SUPPLY AIR DIFFUSER
	SAG	SUPPLY AIR GRILLE
		T-STAT
	VD	VOLUME DAMPER
	VD	VOLUME DAMPER



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



04/30/2024
Deron A Jyo
This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS
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FINAL
SUBMITTAL
09/30/22
DATE

PROJECT TITLE :

AIR TRAFFIC CONTROL
TOWER REPAIRS

AT
KALAELOA AIRPORT
BARBERS POINT, OAHU, HAWAII

PROJECT NO.:

AO5024-03

SHEET TITLE:

MECHANICAL GENERAL
NOTES AND LEGEND

DATE :	DWG. NO. M001
9/30/22	
SHEET :	
32 OF 49 SHEET	