						EXIS	TING A	AIR HA	NDLING	G UNI	SCHE	DUL	=					
		PR	E-FILTER 1 (PF	·-1)	PR	E-FILTER 2 (PF	·-2)	AFTI	R FILTER 1 (A	F-1)				STEAM HEA	TING COIL	_		
MARK	LOCATION	AIRFLOW	APD (IN WG)	MERV	AIRFLOW	APD (IN WG)	MERV	AIRFLOW	APD (IN WG)	MERV			AIR SIDE DA	ATA			STEAM DATA	
WAKK	LOCATION	(CFM)	MID-LIFE	RATING	(CFM)	MID-LIFE	RATING	(CFM	MID-LIFE	RATING	AIRFLOW (CFM)	W FAT LAT MAX VELOCITY APD CAPACITY CONDEN			CONDENSATE (LBS/HR)	PRESSURE (PSIG)		
(EX) 1-AHU-2	PENTHOUSE	14490	0.5	7	14590	0.74	11	14590	1.3	14	14590	16.2 °F	65.0 °F	700	0.4	770.0	802	30

								Е	XISTI	NG AIR	HA	NDLI	NG UN	IT SCH	IEDUL	E (C	CONTI	D)							
						C	HILLED WA	TER COIL							SUPPLY	Y FAN			HUMIDIFIER DAT	A					
				AIR	SIDE D	ATA				1	VATER	SIDE DAT	A							STEAM	FUSE			UNIT	
MARK	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AIRFLOW (CFM)	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX FACE VELOCITY (FPM)	APD (IN)	FLOWRATE (GPM)	EWT	LWT	WPD (FT)	AIRFLOW (CFM)	ESP (IN.WG.)	RPM	НР	AIRFLOW (CFM)	HUMIDIFICATION LOAD (LBS/HR)	STEAM PRESSURE (PSI)	FLA SIZE	VOLT	PHASE	WEIGHT (LBS)	NOTES
(EX) 1-AHU-2	1038.40	653.00	14590	95.20 °F	75.20 °F	54.50 °F	54.2 °F	450	0.75	172.0	45.0 °F	57	15	14590		1750	25	14590	310	30			3	10000	1

NOTES:
1. REBALANCE TO SUPPLY AIR CFM, TEMPERATURES, AND CAPACITIES NOTED.

							AIR HA	NDLIN	NG UNIT	SCH	EDULE	- LO	GISTIC	S						
MADIC	LOCATION		RE-FILTER 1 (PF APD (IN WG)	,		RE-FILTER 2 (PF APD (IN WG)	,		APD (IN WG)	R FILTER 1 (AF-1) HOT WATER HEATING COIL AIR SIDE DATA WATER SIDE DATA WATER SIDE DATA										
MARK	LOCATION	AIRFLOW (CFM)	MID-LIFE	MERV RATING	AIRFLOW (CFM)	MID-LIFE	MERV RATING	AIRFLOW (CFM	MID-LIFE	MERV RATING	AIRFLOW (CFM)	EAT	LAT	MAX VELOCITY (FPM)	APD (IN. WG)	CAPACITY (MBH)	FLOWRATE (GPM)	EWT	LWT	WPD (FT)
1-AHU-LOG	MECH ROOM M1-3	1850	0.5	7	1850	0.75	11	1850	1.3	14	1850	16.2 °F	66.4 °F	280.8	0.09	111.4	10.8	180.0 °F	158.8 °F	1.1

						All	R HA	ANDLIN	NG UN	NIT SCH	HED	ULE -	LOGIS	STICS	(CONT	Γ'D)							
						СН	ILLED W	ATER COIL							SUPPLY	/ FAN							
				AIR S	SIDE DAT	ΓΑ				1	WATER	SIDE DATA										UNIT	
MARK	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AIRFLOW (CFM)	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX FACE VELOCITY (FPM)	APD (IN)	FLOWRATE (GPM)	EWT	LWT	WPD (FT)	AIRFLOW (CFM)	ESP (IN.WG.)	RPM	HP	FLA	MOCP	VOLT	PHASE	WEIGHT (LBS)	NOTES
1-AHU-LOG	135.84	82.90	1850	94.10 °F	74.90 °F	50.71 °F	50.71 °F	234	0.27	26.0	45.0 °F	55.4 °F	11.2	1850	2.5	1548	3	8.6 A	15.0 A	208 V	3	908	1-7

MANUFACTURER TO PROVIDE AHU FAN MOTOR WITH VARIABLE FREQUENCY DRIVE WITH INTEGRAL BYPASS.

THE AHU BASIS OF DESIGN SHALL BE CARRIER MODEL 39LD08 OR EQUAL. AHU COIL SECTIONS IN DIRECTION OF AIR FLOW SHALL BE AS FOLLOWS, FLAT FILTER, FLAT FILTER, HOT WATER PREHEAT COIL, VERTICAL FAN COIL SECTION.

FAN MOTOR SHALL BE ON THE COIL ACCESS SIDE WITH TOP DISCHARGE. PREFILTERS SHALL BE AS FOLLOWS: (PF-1) MERV-7, 2", THROWAWAY; (PF-2) MERV-11, 4" RIGID CARTRIDGE MOUNTED IN ACCESS SECTION OF AHU.

FINAL FILTER (1-AF-4) SHALL BE MERV-14, 12", RIGID CARTRIDGE MOUNTED IN FILTER BOX IN A 24" X 48" ARRAY WITH SIDE ACCESS. PROVIDE WITH A MANHELIC GAUGE AND PORTS FOR BAS FILTER MOINTORING.

		HUMIDIFIER DATA		
MARK	AIRFLOW (CFM)	HUMIDIFICATION LOAD (LBS/HR)	STEAM PRESSURE (PSI)	NOT
1-HUM-LOG	1850	62.9	40	

CONTROL SHALL BE 24 VOLT WITH SUITABLE INTERFACE FOR ALERTON CONTROLS.

		SPLIT S	YSTEM	I AIR H	IANDLII	NG UNIT	SCHED	ULE	- LOG	SISTICS		
MARK	LOCATION	TYPE	CAPACITY (MBH)	COOLING CAPACITY RANGE (MBH)	MINIMUM SEER/IEER	AIRFLOW HIGH-MED-LOW (CFM)	FAN MOTOR (WATT/HP)	FLA	МСА	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
AH-LOG-106	IT L106	WALL MOUNTED	18.0	6.9-20	20/-	716-605-467	54/-	0.17	13.6	DAIKIN	FTK18BXVJU	2-3

PROVIDE DAIKIN THERMOSTAT MODEL D4272C. THERMOSTAT SHALL PROVIDE TWO STAGES OF COOLING, ONE STAGE OF HEATING, AND ONE STAGE OF DEHUMIDIFICATION.

					E	EXIST	ING	FAN	SCHE	DULE						
MARK	LOCATION	AREA SERVED	SERVICE	AIRFLOW (CFM)	TSP (IN.W.G.)	TYPE	CLASS	DRIVE	FAN MAX RPM	ВНР	HP	RPM	VOLTAGE	PHASE	SPEED CONTROL	NOTES
(EX) 1-EF-5	ROOF	SPS & RADIOLOGY	RELIEF	8085	1.5	INLINE	II	BELT	1000	3.90	5.00	1750	208	3	VARIABLE	1
NOTES: 1. REBAL	ANCE TO RELIEF AIR C	CFM NOTED.														

AIR COOLED CONDENSING UNIT SCHEDULE - LOGISTICS CAPACITY REFRIGERANT NOTES MARK LOCATION RATING MCA MOCP VOLTAGE PHASE POWER MANUFACTURER MODEL NUMBER CU-LOG-106 RK18BXVJU DISCONNECT PROVIDED BY DIVISION 26. INDOOR AIR HANDLING UNIT SHALL BE POWERED FROM THE CONDENSING UNIT. DIVISION 23 TO PROVIDE WIRING AND CONNECTIONS.

7. UNIT SHALL NOT EXCEED 53-1/8"(L) x 54-7/16"(W) x 63-1/4"(H).

				FAN SCHEDULE - LOGISTICS															
MARK LOCATION	AREA SERVED	SERVICE	AIRFLOW (CFM)	TSP (IN.W.G.)	TYPE	CLASS	DRIVE	FAN MAX RPM	NOISE CRITERIA (SONES)	ВНР	НР	RPM	VOLTAGE	PHASE	SPEED CONTROL	EMERGENCY POWER	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
-EF-LOG LOADING DOCK ROOF	STERILE STORAGE	EXHAUST	1710	1	UPBLAST	1	DIRECT	1620	18	0.55	0.63	1725	208	1	YES	YES	COOK	ACRU-D VF	1, 2, 3, 4
OTES:		_					•						_						_

PROVIDE WITH CONDENSATE PUMP AND ROUTE PIPING TO NEAREST DRAIN.

. PROVIDE BACNET COMPATIBLE CONTROL CARD FOR INTERFACE WITH ALERTON CONTROLS.

PROVIDE FAN WITH FACTORY SUPPLIED DISCONNECT SWITCH, STARTER, AND THERMAL OVERLOAD PROTECTION. DIVISION 26 SHALL MAKE FINAL CONNECTIONS TO EQUIPMENT. PROVIDE 14" HIGH GALVANIZED STEEL ROOF CURB.

PROVIDE BACKDRAFT DAMPER. PROVIDE INTERNAL SPEED CONTROL FOR BALANCING.

PROVIDE WITH RIGHT HAND PIPING.

ROOM	AIR BALANCE	SCHED	ULE -	LOGIS	TICS
ROOM NO.	NAME	SUPPLY	RETURN	EXHAUST	BALANCE
E-102	ELEC	50	50	0	0
T-100	ELEC	50	50	0	0
L102	BREAK DOWN	110	110	0	0
L103	CORR	100	50	0	+
L104	STORAGE	55	55	0	0
L105	SUPPLY OFFICE	65	65	0	0
L106	IT	600	525	0	+
L107	INVENTORY SPECIALIST	160	160	0	0
L108	UNCLEAN STERILE STORAGE	1110	0	810	+
L109	CORR	450	180	0	+
L110	TOILET	0	0	100	
L111	TOILET	0	0	100	
L112	STERILE STORAGE OVERFLOW	740	0	640	+
L113	HAC	0	0	100	
L114	SPS RECEIVING BREAKDOWN	425	425	0	0
L115	SUPPLY TECHS OFFICE	440	440	0	0
L116	EMS PRIMARY	150	150	0	0

DEVICE LETTER	DEVICE TYPE	MANUFACTURER AND MODEL NUMBER	FRAME NUMBER	FRAME SIZE	NECK LETTER	NECK SIZE
Α	ARCH. DIFFUSER	NAILOR 6500	1	12x12	A	6"Ø
В	BAR GRILLES	NAILOR SERIES 49	2	24x24	В	8"Ø
С	CEILING REGISTER	NAILOR 61 DV	3	24x12	С	10"Ø
D	DRUM LOUVER	NAILOR 45 DL	4	NECK + FRAME	D	12"Ø
Е	EGGCRATE	NAILOR 61 EC	5	14x10	E	14"Ø
F	FILTER GRILLE	NAILOR 61 FP	6	48x24	F	16"Ø
G	SIDEWALL GRILLE	NAILOR 6155 H	7	48x4	G	14x6
Н	FIRE RATED	NAILOR	8	132x4	Н	NECK SIZE
J	CURVED GRILLE	61DVC			55,40	
K	PLENUM DIFFUSER	NAILOR				E TYPE
L	LAMINAR FLOW	NAILOR 92LFD-SS]		FRAMI	E SIZE
M	LINEAR SLOT	NAILOR 5010/5010R		<u> X X X — — </u>	NECK	SIZE
N	LINEAR SLOT	NAILOR 48LL2		Х	CFM	
Р	ARCH. RETURN/EXH.	NAILOR 6155H		DICT	DILIT	
Q	PERFORATED FACE	NAILOR 4325/4360	AIF	R DISTE	KIBUT	
R	ROUND	NAILOR				
S	SECURITY GRILLES	NAILOR SG-BM4		LEGEN	ID KE'	Y
T	SIDEWALL REGISTER	NAILOR 61 DV	-			_

SUPPLY. EXHAUST, AND RETURN DIFFUSERS FOR PATIENT AND SUPPORT SPACES (I.E. EVERYWHERE BUT UTILITY ROOMS AND RESTROOMS) SHALL BE PROVIDED WITH RETAINING CLIP OPTION FOR AFFIXING CEILING GRID TO CENTER OF DEVICE. MAXIMUM AIR VELOCITY THROUGH DIFFUSERS, GRILLES AND REGISTERS SHALL BE 500 FPM, UNLESS INDICATED OTHERWISE. MAXIMUM NC SHALL BE 30.

PROVIDE FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED, VERIFY WITH FINAL APPROVED ARCHITECTURAL CEILING

. BASIS OF DESIGN IS NAILOR OR EQUAL.

PROVIDE SQUARE TO ROUND TRANSITION WITH APPROPRIATE NECK SIZE, AS REQUIRED. REFER TO ARCHITECTURAL FOR FINISHES. 8. SEE PLANS FOR NECK SIZES OF REGISTERS AND GRILLES, ETC.

9. INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK. 10. DEVICES LOCATED IN TOILET(S) SHALL BE CONSTRUCTED OF ALUMINUM. 11. PROVIDE LINEAR SLOT DIFFUSÉRS WITH 180-DEGREE WIPER BLADE DAMPER FOR AIRFLOW DIRECTIONAL ADJUSTMENT.

VAV/	CAV AI	R TERN	JINAL	UNIT SCI	HEDULE - LO	OGISTICS
MARK	SERVES	INLET SIZE (IN)	AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	MINIMUM HEATING CAPACITY (BTUH)	HOT WATER FLO
TU-10-007	Ι 115Δ	6"	150	75	1620	0.5

MARK	SERVES	(IN)	(CFM)	(CFM)	CAPACITY (BTUH)	(GPM)
TU-10-007	L115A	6"	150	75	1620	0.5
VAV-LOG-1	L112	10"	740	740	15984	1.6
VAV-LOG-2	L109	8"	450	225	4860	0.5
VAV-LOG-3	L108	10"	1110	1110	23976	2.4
VAV-LOG-4	L102	6"	110	55	1188	0.5
VAV-LOG-5	L103, L104, L105, L107	6"	580	290	6264	0.6
VAV-LOG-6	L106	8"	600	600		

NOTES:
1. HEATING COILS ARE BASED ON 60 DEGREE EAT, 180 DEGREE EWT, AND 160 DEGREE LWT. HEATING CFM = MINIMUM CFM.

. MAXIMUM INLET VELOCITY SHALL BE 2,200 FPM.

MAXIMUM NC AT 1' SP = 35 IN ACCORDANCE WITH AIR STANDARD 880-98. . ALL SINGLE DUCT AIR TERMINAL UNITS SHALL BE PRESSURE INDEPENDENT TYPE.

PROJECT TITLE

SINGLE DUCT AIR TERMINAL UNITS MAXIMUM AND MINIMUM SETPOINTS SHALL BE AT CFM SHOWN ON SCHEDULE. SINGLE DUCT AIR TERMINAL SHOP DRAWINGS SHALL IDENTIFY EACH UNIT WITH CORRESPONDING ROOM NUMBER AND UNIT RATINGS CLEARLY INDICATED.

BASIS OF DESIGN IS TITUS DESV. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS. . PROVIDE 120V/24V TRANSFORMER WITH EACH TERMINAL UNIT.

10. CONTROL INTERFACE SHALL BE BASED ON BACNET MS/TP PROTOCOL FOR INTERFACE WITH ALERTON CONTROLS. I. VAV-LOG-1, 3, & 6 ARE CONSTANT VOLUME. ALL OTHERS ARE VARIABLE VOLUME.

AIRFLOW CONTROL VALVE SCHEDULE - LOGISTICS

PROJECT NUMBER

TAG	TYPE	SERVES	AIRFLOW (CFM)	INLET SIZE (IN.)	NOTES
VV-LOG-1	EXHAUST	L112	640	12	1, 2
VV-LOG-2	EXHAUST	L108	810	12	1, 2

NOTES:

1. BASIS OF DESIGN IS ANTEC VV. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.

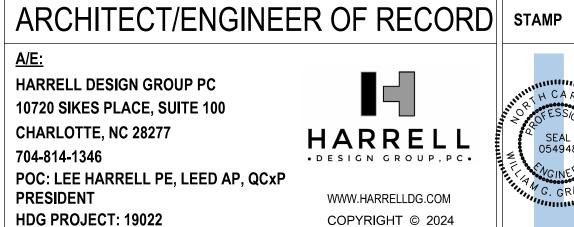
2. PROVIDE 120V/24V TRANSFORMER WITH EACH TERMINAL UNIT.

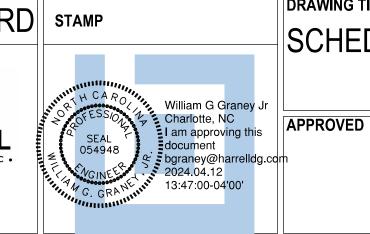
CONTROL INTERFACE SHALL BE BASED ON BACNET MS/TP PROTOCOL FOR INTERFACE WITH ALERTON CONTROLS.

_			
	Revision Number	Revisions:	Date:

CONSULTANTS CONSULTING STRUCTURAL ENGINEERS BRITT, PETERS ASSOCIATES — IN ⊂. consulting engineers

HARRELL DESIGN GROUP PC 10720 SIKES PLACE, SUITE 100 CHARLOTTE, NC 28277 704-814-1346 POC: LEE HARRELL PE, LEED AP, QCxP PRESIDENT HDG PROJECT: 19022





DRAWING TITLE CONSTRUCTION SCHEDULES

DOCUMENTS SUBMISSION LOCATION **FULLY SPRINKLERED**

RENOVATE SPACE FOR LOGISTICS 564-24-104 **BUILDING NUMBER** DRAWING NUMBER FAYETTEVILLE VA MEDICAL CENTER CHECKED DRAWN MH601-A ISSUE DATE 11 APRIL 2024 WGG ANB



VA FORM 08 - 6231