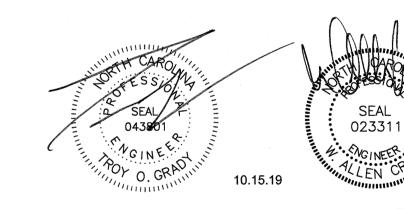
CMS MYRTLE GROVE EXHAUST FAN REPLACEMENT

FOR UNIVERSITY OF NORTH CAROLINA WILMINGTON

> 5600 MARVIN K. MOSS LANE WILMINGTON, NC 28409 STATE ID# XX-XXXXX-01A







DRAWING INDEX

GENERAL

G-001 COVER SHEET

MECHANICAL

MECHANICAL PENTHOUSE DEMOLITION PLAN MECHANICAL ABBREVIATIONS, NOTES, LEGEND AND SCHEDULES

MECHANICAL PENTHOUSE PLAN

MECHANICAL CONTROLS

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ELECTRICAL

ELECTRICAL LEGEND, ABBREVIATIONS, PANEL SCHEDULES AND LOAD SUMMARIES ELECTRICAL PENTHOUSE PLAN POWER

2. CONTRACTOR MUST MEAS ACCESSORIES:A. BACKWARD INCLINED WHE B. ISOLATORS - SPRING BASE C. VFD RATED MOTOR D. 1" DRAIN CONNECTION E. HI-PRO POLY COATING DRAWING CODE D1 INTA D2 INTA D3 INTA NOTES: 1. C	ALTERNATE APPROVED MANUFACTURERS TWIN CITY, PENNBARRY SINGLE WIDTH CENTRIFUGAL TWIN CITY, PENNBARRY SINGLE WIDTH CENTRIFUGAL TWIN CITY, PENNBARRY SINGLE WIDTH CENTRIFUGAL SECTION 233423 - HVAC POWER VENTILATORS FOR FURTHER IN URE OPENING PRIOR TO ORDERING FAN. EL SCHEDULE VICE DESIGN BASIS MODEL AIRFLOW (MAX. CFM) (IN.W x IN.H) KE TAMCO 1500 SW 23,000 48X48 KE TAMCO 1500 SW 23,000 48X48	L FANS EXHAUST 23,000 6 L FANS EXHAUST 23,000 6 L FANS EXHAUST 23,000 6 NFORMATION. CONFIGURATION MOUNT TYPE 1F FLANGED TO DUCT 1F FLANGED TO DUCT 1F FLANGED TO DUCT ES.	ARRANGEMENT RPM RPM TYPE S	MOTOR SIZE (HP) V/PH/HZ MCA MOCP (LB 40 460/3/60 65 70 56 40 460/3/60 65 70 56	2442 1,2 A,B,C,D,E 2442 1,2 A,B,C,D,E 2442 1,2 A,B,C,D,E	ABBREVIATIONS TERM ABOVE FINISHED FLOOR ABOVE GROUND ABOVE SEA LEVEL ACROSS THE LINE AIR ADMITTANCE VALVE AIR CONDITION(-ING, -ED) AIR-HANDLING UNIT AIR FLOW MEASURING STATION AMBIENT AMPERE (AMP, AMPS) ANALOG INPUT ANALOG OUTPUT AND APPARATUS DEW POINT APPROXIMATE ARCHITECT ATMOSPHERE AVERAGE BRAKE HORSEPOWER BROWN & SHARPE WIRE GAGE	ABBREVIATION AFF AG ASL ACL AAV AIR COND AHU OR AH AFMA AMB AMP AI AO & ADP APPROX ARCH ATM AVG BHP	INCH OF WATER GAUGE INDOOR UNIT IRON PIPE SIZE KILOVOLT-AMP KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE LENGTH LINEAR FEET MAXIMUM MAXIMUM OVERCURRENT PROTECTION MEDIUM-PRESSURE STEAM MILES PER HOUR MINIMUM MINIMUM CIRCUIT AMPERES MINUTE MANUFACTURER	ABBREVIATION INWG IDU IPS KVA KW KWH LAT LWT LG LF MAX MOCP MPS MPH MIN. MCA MIN MFR	D	
DRAWING CODE BASIS OF DESIGN MANUFACTURER DESIGN M EF13 GREENHECK USF-40 EF14 GREENHECK USF-40 EF15 GREENHECK USF-40 NOTES: 1. REFER TO SPECIFICATION 2. CONTRACTOR MUST MEAS ACCESSORIES:A. BACKWARD INCLINED WHE B. ISOLATORS - SPRING BASE C. VFD RATED MOTOR D. 1" DRAIN CONNECTION E. HI-PRO POLY COATING DAMPER DRAWING SER CODE D1 INTA D2 INTA D3 INTA NOTES: 1. C2 2. F	ALTERNATE APPROVED MANUFACTURERS TWIN CITY, PENNBARRY SINGLE WIDTH CENTRIFUGAL TWIN CITY, PENNBARRY SINGLE WIDTH CENTRIFUGAL TWIN CITY, PENNBARRY SINGLE WIDTH CENTRIFUGAL SECTION 233423 - HVAC POWER VENTILATORS FOR FURTHER IN URE OPENING PRIOR TO ORDERING FAN. EL SCHEDULE WICE DESIGN BASIS MODEL (MAX. CFM) SIZE (IN.W x IN.H) KE TAMCO 1500 SW 23,000 48X48	AIRFLOW ESP (CFM) (IN. W L FANS EXHAUST 23,000 6 L FANS EXHAUST 23,000 6 NFORMATION. CONFIGURATION MOUNT TYPE 1F FLANGED TO DUCT 1F FLANGED TO DUCT 1F FLANGED TO DUCT 1F FLANGED TO DUCT ES.	MG.) DRIVE ARRANGEMENT RPM RPM TYPE S 6.07 DIRECT 1024 1221 ECM 6.07 DIRECT 1024 12	MOTOR SIZE (HP)	2442 1,2 A,B,C,D,E 2442 1,2 A,B,C,D,E 2442 1,2 A,B,C,D,E	TERM ABOVE FINISHED FLOOR ABOVE GROUND ABOVE SEA LEVEL ACROSS THE LINE AIR ADMITTANCE VALVE AIR CONDITION(-ING, -ED) AIR-HANDLING UNIT AIR FLOW MEASURING STATION AMBIENT AMPERE (AMP, AMPS) ANALOG INPUT ANALOG OUTPUT AND APPARATUS DEW POINT APPROXIMATE ARCHITECT ATMOSPHERE AVERAGE BRAKE HORSEPOWER	AFF AG ASL ACL AAV AIR COND AHU OR AH AFMA AMB AMP AI AO & ADP APPROX ARCH ATM AVG	INCH OF WATER GAUGE INDOOR UNIT IRON PIPE SIZE KILOVOLT-AMP KILOWATT KILOWATT HOUR LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE LENGTH LINEAR FEET MAXIMUM MAXIMUM OVERCURRENT PROTECTION MEDIUM-PRESSURE STEAM MILES PER HOUR MINIMUM MINIMUM CIRCUIT AMPERES MINUTE MANUFACTURER	INWG IDU IPS KVA KW KWH LAT LWT LG LF MAX	D	
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D2 INTA D3 INTA NOTES: 1. C 2. F	KE TAMCO 1500 SW 23,000 48X48 KE TAMCO 1500 SW 23,000 48X48 ONTRACTOR SHALL FIELD VERIFY REPLACEMENT DAMPER SIZE ROVIDE AND INSTALL REPLACEMENT PNEUMATIC DAMPER ACT	1F FLANGED TO DUCT 1F FLANGED TO DUCT ES.	T PARALLEL SALT WATER RESISTANT AIR-FOIL		JOFPM)	BRITISH THERMAL UNIT PER HOUR 1000 BRITISH THERMAL UNIT	BTUH MBH	NORMALLY OPEN NORMALLY CLOSED	NO NC	<u> </u>	
NOTES: 1. C 2. F	ONTRACTOR SHALL FIELD VERIFY REPLACEMENT DAMPER SIZE ROVIDE AND INSTALL REPLACEMENT PNEUMATIC DAMPER AC	ES.	T PARALLEL SALT WATER RESISTANT AIR-FOIL		1, 2 -	BUILDING BUILDING AUTOMATION SYSTEM	BLDG BAS	NOT APPLICABLE NOT IN CONTRACT	N/A N I C		
2. F	ROVIDE AND INSTALL REPLACEMENT PNEUMATIC DAMPER AC			L DAMPER 4 1.000	1, 2 -	CELSIUS	°C	NOT TO SCALE	NTS		
			DE ACTUATOR ACCESSORIES FOR A COMPLETE INSTAL	LLATION		CHILLED WATER RETURN CHILLED WATER SUPPLY	CHWR CHWS	NUMBER ON CENTER	OC		()
	MECHANICAL					COEFFICIENT, VALVE FLOW COEFFICIENT OF PERFORMANCE FACTOR	COP	OUNCE OUTDOOR UNIT	ODU ODU		
	MECHANICAL					COMPRESSOR CONCRETE	COMP	OUTSIDE AIR PACKAGE UNIT	OA PU		
		LEGEND	MECHANICAL GENERA	AL NOTES		CONDENS(-ER, -ING, -ATION) CONNECTION	COND	PACKAGE TERMINAL AIR CONDITIONER PARTS PER MILLION	PTAC PPM		
	(X) EXISTING			STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, S	STATE AND LOCAL CODES AND	CONTINUATION	CONT	PERCENT	W		S
	EF# EXHAUST FAN NU		ALL MECHANICAL WORK SHALL BE IN STANDARDS.	TRIOT CONFLIANCE WITH ALL APPLICABLE FEDERAL, S	TATE AND LOCAL CODES AND	COOLING LOAD CUBIC FEET	CLG LOAD CU FT	PHASE POUNDS	LBS		
	M MOTORIZED DAME	PER		R NEW EQUIPMENT, DUCTWORK, PIPING AND APPARATI		CUBIC INCH CUBIC FEET PER MINUTE	CU IN	POUNDS PER SQUARE FOOT POWER VENTILATOR	PSF PV		
	EXTENT OF DEMO	DLITION	FIELD. DUCTWORK AND PIPING INDICAT	TED ON THE DRAWINGS, SECTIONS AND PROSPECTIVE ELEVATIONS IN EXACT LOCATIONS SHALL BE DETERMIN	VIEWS ARE SHOWN	CFM, STANDARD CONDITIONS DECIBEL	SCFM	PRESSURE PRESSURE REDUCING VALVE	PRESS PRV		
	CONNECTION POI	INT - NEW TO EXISTING	CONTRACTOR AND DETAILED ON THE S		ED BY THE INSTALLING	DEGREE	DEG OR °	PRESSURE SAFETY VALVE	PSV		
		·		PLAN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR M WHEN DETERMINING INSTALLATION CLEARANCES.	JUST ACCOUNT FOR THE	DEDICATED OUTDOOR AIR SYSTEM DEGREES FAHRENHEIT	DOAS DEG. F	PUMPED CONDENSATE QUANTITY	PC QTY		
				LY COVER ALL EXPOSED DUCT AND PIPE OPENINGS WI	TH A NON-COMBUSTIBLE	DETAIL DEW-POINT TEMPERATURE	DET DPT	RATED LOAD AMPS RECIRCULATE	RLA RECIRC		
				TO PREVENT CONTAMINATION OF THE RESPECTIVE SYS		DIAMETER DIAMETER, INSIDE	DIA	REDUCED PRESSURE BACKFLOW PREVENTER REFRIGERANT (12, 22, ETC.)		L	
				SPOSE OF OFFSITE ALL DEMOLISHED WORK IN ACCEPTA	'ABI E AND SAFE MANNER AND	DIAMETER, OUTSIDE	OD	REFRIGERANT LIQUID	RL RL		.,,,,,,,,
			SHALL KEEP ALL NON-WORK AREAS CLI		ADEL AND OAI E MANNELLAND	DIFFERENCE OR DELTA DIGITAL INPUT	DIFF	REFRIGERANT SUCTION REQUIRED	REQD OR REQ'D		WILL ES
				ECTIONS THAT NEED TO BE TEMPORARILY DEMOLISHED AND BROUGHT BACK TO ORIGINAL CONDITIONS PRIOR		DIGITAL OUTPUT DOMESTIC HOT WATER	DO DHW	RELATIVE HUMIDITY RETURN AIR	RH RA		SE
			i	ACCESSIBLE FOR OPERATION, MAINTENANCE AND REP		DOMESTIC HOT WATER RECIRCULATION	DHWR	REVOLUTIONS PER MINUTE	RPM		043
				LISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST		DRY-BULB TEMPERATURE DUCTLESS SPLIT SYSTEM AIR HANDLER	DAH	REVOLUTIONS PER SECOND ROOF VENTILATOR	RPS RV		AGI NOY O
			The state of the s			DUCTLESS SPLIT SYSTEM HEAT PUMP ENERGY EFFICIENCY RATING	DHP	ROOF TOP UNIT SAFETY FACTOR	RTU SF		-//// _{////////////////////////////////}
						EFFICIENCY ELECTRIC UNIT HEATER	EFF	SEASONAL ENERGY EFFICIENCY RATIO SECOND	SEER S		
			MECHANICAL DEMOL	ITION NOTES		ELEVATION ENTERING	EL	SHADING COEFFICIENT SPECIFICATION	SC		
					DECUMPENTO AND	ENTERING WATER TEMPERATURE	EWT	SQUARE	SQ		Z
			LAYOUT HIS WORK IN A COMPATIBLE A	HE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION F AND COMPLEMENTARY MANNER. REMOVE ALL EQUIPM ES, ETC, AND MECHANICAL ITEMS MADE OBSOLETE BY	MENT, DUCTWORK,	ENTERING AIR TEMPERATURE EXISTING	(X)	STANDARD STATIC PRESSURE	SP		
			SHOWN IN THE MECHANICAL DRAWING	IGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT ANY MECHANICAL WORK AS REQUIRED BY THE CONSTR	T BE SHOWN, HOWEVER,	EXTERNAL AMBIENT TEMPERATURE EXTERNAL STATIC PRESSURE	EAT	SUPPLY AIR	SPLY		5 H ≥
				OFFICER. SURVEY THE AFFECTED AREAS BEFORE SUI		EXHAUST AIR EXHAUST FAN	EA	TEMPERATURE TEMPERATURE DIFFERENCE	TEMP	B	A A B
				RDINATE SCHEDULING OF MECHANICAL DEMOLITION WO		FACE VELOCITY	FVEL	THERMOSTAT	T STAT		WILMING1 REPLACEI RTH CAROLINA
		•		E DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL IN:		FAHRENHEIT FEET PER MINUTE	FPM	TONS OF REFRIGERATION TO BE DETERMINED	TONS TBD		₹
				PECIFICALLY REQUESTED BY THE GOVERNMENT, ALL D	DEMOLISHED MECHANICAL	FEET PER SECOND FLOOR	FPS FLR	TOP OF STEEL TOTAL DYNAMIC HEAD	TOS TDH		FAN ON, NO
				PERTY OF THE CONTRACTOR AND SHALL BE REMOVED		FOOT OR FEET FULL LOAD AMPS	FT FLA	TYPICAL U-FACTOR	TYP		No.
			4. CUTTING AND PATCHING - PERFORM (CUTTING AND PATCHING FOR MECHANICAL WORK SO A	AS TO MINIMIZE DAMAGE TO	GAGE OR GAUGE	GA	UNDER GROUND	UG UON		CARO HAUST
			CEILINGS, FLOORS AND WALLS.			GALLONS GALLONS PER HOUR	GPH	UNLESS OTHERWISE NOTED UNIT HEATER - ELECTRIC	UH		S A S
			LIMITED FIELD VERIFICATION OF EXIST	THE ENGINEER FROM THE GOVERNMENT'S AS-BUILT F STING CONDITIONS FOR THE PURPOSE OF INDICATING T	THE WORK REQUIRED AND	GALLONS PER MINUTE GALLONS PER DAY	GPM GPD	VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE	VAV VFD		エ 文 ご []
				TWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL ELD CONDITIONS AFFECTING HIS WORK.	DUCTWORK, EQUIPMENT	GAS UNIT HEATER GRAINS	GUH GR	VELOCITY VENTILATION, VENT	VEL VENT		LANE SE
				S THROUGH THE DEMOLITION AREAS TO SERVE OTHER		HEAD HEAT EXCHANGER	HD	VENT THRU ROOF VERTICAL	VTR VERT		NO NO SS1
			ADVISE THE CONTRACTING OFFICER I	BE SUITABLY RELOCATED AND THE SYSTEM RESTORED IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED I		HEATING AND VENTILATION UNIT	HV	VOLT	V		P NC ROVE MOSS
			ADDITIONAL WORK.	OVOTEMO FIDE ALABMAND BUBLIO ADDRESS SUCT	AC AND MAINTAIN THE A	HEATING, VENTILATION AND AIR CONDITIONING HEIGHT	HGT	VOLT AMPERE VOLUME	VA VOL		∑ N N N N N N N N N N N N N N N N N N N
			OPERATION THROUGHOUT THE PROG	SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEM GRESS OF THE WORK. NOTIFY THE CONTRACTING OFFICTORY OUTAGE OF SERVICE. WHERE THE DURATION O	ICER IN WRITING OF	HERTZ HIGH DENSITY POLYPROPYLENE	HZ HDPE	WATER PRESSURE DROP WATER GAUGE	WPD WG		
				/ERNMENT, PROVIDE TEMPORARY CONNECTIONS AS RE		HIGH-PRESSURE STEAM HORSEPOWER, HEAT PUMP	HPS HP	WATT-HOUR	W		RAI
				DRE STARTING DEMOLITION AS ALL EXISTING CONDITION	NS CANNOT BE	HOT WATER COIL HOUR(S)	HWC	WITH	W/		UNIVER MS MYR ⁻
				WINGS AND SOME UNUSUAL CONDITIONS EXIST.		HUMIDITY, RELATIVE	RH	WET BULB	WB		ZS
			 IF ANY UNUSUAL STRUCTURAL OR AR THE CONTRACTING OFFICER FOR ASS 	RCHITECTURAL CONDITIONS ARE ENCOUNTERED DURING SISTANCE.	IG DEMOLITION, CONTACT	INTEGRATED PART LOAD VALUES INCH	IN.	YARD YEAR	YR		J ⊠.
			SOLLING OF FIGURE OR ASS			NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN	PROJECT.			A	
										1 11.	JOB NO.:
										1 11.	DRAWN: DESIGNED:
											CHECKED:
											DDAW
											DRAWI

