

PROJECT TITLE:

UUPI - LBR Relocation Support Structures For City of Tallahassee

1900 RANKIN AVE, Tallahassee, FL 32310

JOB NO.: 21.130

DESIGNED: JPT

DRAWN: JPT

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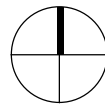
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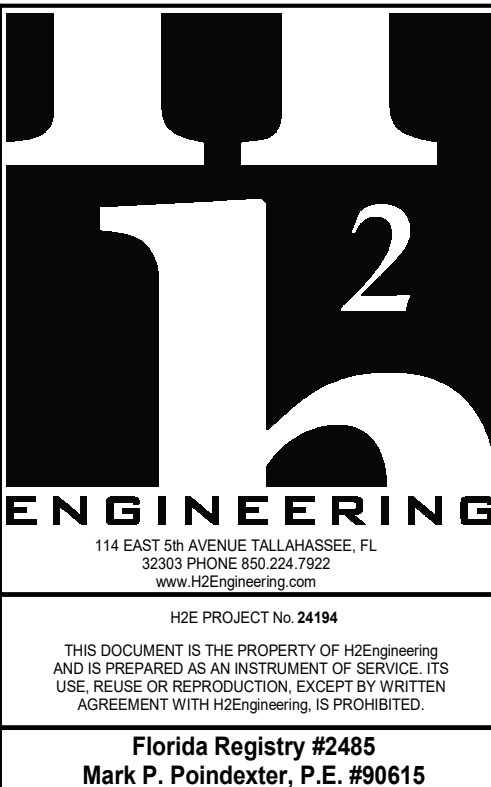
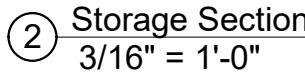
M2-101

DATE:

October 03, 2025



① Floor Plan - Storage
3/16" = 1'-0"



OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
PAC-1.1	5,300	EF-1.1	5,200
TOTAL	5,300	TOTAL	5,200
BUILDING PRESSURIZATION	(+)		100

OUTDOOR CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)					
	COOLING (0.4% ANNUAL)	"Fdb - "Fwb	96.2	-	76.2
	HEATING (99.6% ANNUAL)	"Fdb	26.5		
INDOOR CONDITIONS - SUMMER					
	VEHICLE STORAGE	"Fdb - %RH	80	-	55
INDOOR CONDITIONS - WINTER					
	VEHICLE STORAGE	"Fdb - %RH	60	-	30

		EXHAUST AIR	OUTSIDE AIR	
TYPE OF SPACE		CFM / FT ²	CFM / PERSON	CFM / FT ²
	PARKING GARAGE / REPAIR GARAGE	0.75	0	0.00
NOTES: 1 VENTILATION RATES CALCULATED PER REQUIREMENTS OF FBC, MECHANICAL 2023.				

DESIGNATION	PAC-1.1		
AREA SERVED	VEHICLE STORAGE		
CONTROL CONFIGURATION	SZ		
AIRFLOWS			
	TOTAL OUTSIDE AIR / MINIMUM AIRFLOW	CFM / CFM	5,300 / 5,300
	HEATING AIRFLOW	CFM	5,300
FILTER SECTION			
	PRE-FILTER		2" PLEATED MERV 8
	FINAL FILTER		4" PLEATED MERV 13
SUPPLY FAN SECTION			
	SUPPLY FAN QUANTITY	#	1
	FAN MOTOR HORSEPOWER (PER FAN)	HP - BHP	7.5 - 5.5
	FAN MOTOR HORSEPOWER (UNIT TOTAL @ DESIGN)	HP - BHP	7.5 - 5.5
	SUPPLY FAN MOTOR TYPE		STANDARD
	SUPPLY FAN TYPE		PLENUM
	FAN DRIVE		DIRECT
	EXTERNAL STATIC PRESSURE	IN. WG	1
	DIRTY PRE-FILTER ALLOWANCE	IN. WG	0.7
	DIRTY FINAL FILTER ALLOWANCE	IN. WG	0.7
	MAX. TOTAL STATIC PRESSURE	IN. WG	4.5
	VARIABLE FREQUENCY DRIVE		YES

TOTAL COOLING CAPACITY	MBH	317
SENSIBLE COOLING CAPACITY	MBH	212
COMPRESSOR QUANTITY	#	2
AIR ENTERING COOLING COIL	*Fdb - *Fwb	96.2 - 76.2
AIR LEAVING COOLING COIL	*Fdb - *Fwb	60.0 - 59.5
CONDENSATE DRAIN SIZE	IN.	2

TYPE		MODULATING
TOTAL CAPACITY	MBH	63.2
REHEAT COIL ENTERING / LEAVING TEMPERATURE	°Fdb / °Fdb	60 / 71

FUEL TYPE		NATURAL GAS
TYPE		4 STAGE
INPUT / OUTPUT CAPACITY	MBH / MBH	450 / 365
AIR ENTERING HEATING COIL	*Fdb	25
AIR LEAVING HEATING COIL	*Fdb	80.0
GAS PIPE CONNECTION SIZE / QUANTITY	IN. / #	3/4 / 2

VOLTAGE / PHASE	V / PH	480 / 3
MCA / MOCp	AMPS / AMPS	62 / 80

UNIT WEIGHT	LB	4090
UNIT DIMENSIONS (LENGTH x WIDTH x HEIGHT)	IN. x IN. x IN.	202.5 x 76.5 x 72.1

	25251
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DETAIL REFERENCE	D/M-501
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- 1 PROVIDE UNIT WITH PREMIUM-EFFICIENCY MOTORS.
- 2 PROVIDE 0-100% OUTSIDE AIR DAMPER.
- 3 PROVIDE NEMA 3R NON-FUSED DISCONNECT.
- 4 PROVIDE PHASE & BROWNOUT PROTECTION.
- 5 PROVIDE WARRANTY PER SPECIFICATION.
- 6
- 7 PROVIDE FACTORY START-UP.
- 8 PROVIDE ONE (1) MODULATING COMPRESSOR.
- 9 PROVIDE UNIT POWERED CONVENIENCE OUTLET.
- 10 PROVIDE HAIL GUARD PROTECTION FOR CONDENSER COIL.
- 11 PROVIDE STAINLESS STEEL GAS HEAT EXCHANGER.
- 12 PROVIDE SURGE PROTECTION DEVICES FOR SENSOR AND CONTROLS LOCATED OUTDOORS AND SUBJECT TO ELECTRICAL DAMAGE.
- 13
- 14 PROVIDE GROUND MOUNTED CURB, INSULATED.
- 15 PROVIDE UV LIGHT AND DOOR SWITCH, POWERED THRU UNIT.
- 16 PROVIDE SINGLE POINT POWER.

3 PROVIDE OUTSIDE AIR TEMPERATURE AND HUMIDITY SENSOR.
4 PROVIDE COOLING COIL LEAVING AIR TEMPERATURE SENSOR.
5 PROVIDE SUCTION PRESSURE TRANSDUCER.
6 PROVIDE OUTSIDE AIRFLOW MEASURING STATION (EBTRON GOLD SERIES).
7 PROVIDE MOTORIZED OUTSIDE AIR DAMPER.

DESIGNATION			EF-1.1
	SERVICE		CLASS 1 OR 2 EXHAUST
	MOUNTING METHOD		WALL
	FAN TYPE		PROPELLER
	AIR FLOW	CFM	5,200
	STATIC PRESSURE	IN.	0.3
	AIRSTREAM TEMPERATURE	DEG F	70
	FAN SPEED	RPM	851
	FAN DRIVE		DIRECT
	MOTOR SPEED	RPM	860
	MOTOR POWER	HP or W	1 HP
	MOTOR BRAKE HORSEPOWER	BHP	0.6
	ELECTRONICALLY COMMUTATED MOTOR		YES
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 3
	WEIGHT	LBS.	317
NOISE LEVEL (RADIATED)	SONES or LwA	13.3 SONES	
STANDARD NOTES		1, 4, 18, 37	
MANUFACTURER			GREENHECK
MODEL NUMBER			AER-30-02-0315
DETAIL REFERENCE			E/M-501
NOTES:	(SEE SEQUENCES OF OPERATION ON MC SHEETS FOR FAN CONTROLS)		
1	PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED FOR SINGLE PHASE MOTORS (3/4 HP AND SMALLER). ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR 1 HP MOTOR AND LARGER.		
4	PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.		
18	PROVIDE MOTOR GUARD.		
37	PROVIDE WALL HOUSING.		

DESIGNATION			HVLS-2.1, 2.2
	FAN DIAMETER	FT	12
	BLADES	#	5
	BLADE HEIGHT ABOVE FINISHED FLOOR	FT - IN	17' - 0"
	LIGHT KIT		NO
	MOTOR CHARACTERISTICS		VFD
	FAN MOTOR	HP	1/4
	ELECTRICAL CHARACTERISTICS	V/PH	208 /
	OUTDOOR USAGE RATING		DAMP
	FINISH		NOTE 4

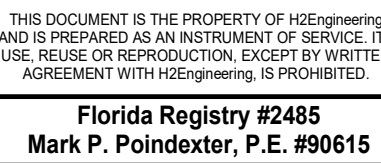
MODEL NUMBER	DC-5-12
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1 FURNISH AND INSTALL APPROPRIATE MOUNTING KIT AND EXTENDED DROP KITS FOR SPECIFIED MOUNTING HEIGHT

2 FURNISH AND INSTALL APPROPRIATE SURFACE MOUNT KEY PAD CONTROL WITH LCD DISPLAY ON 4 GANG SQUARE
SURFACE MOUNT BACK BOX. PROVIDE CAT-5E CABLE WITH RJ45 ENDS IN 3/4" CONDUIT FROM FAN MOTOR TO KEY
PAD BOX.

3 FURNISH AND INSTALL HEAVY DUTY, BRAIDED GALVANIZED STEEL SAFETY CABLE FOR MOTOR AND FAN HUB.

4 AIRFOIL FINISH: ANODIZED. FAN MOTOR, MOUNT, ETC, FINISH: HI-PRO POLYESTER, FLAT BLACK.



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2
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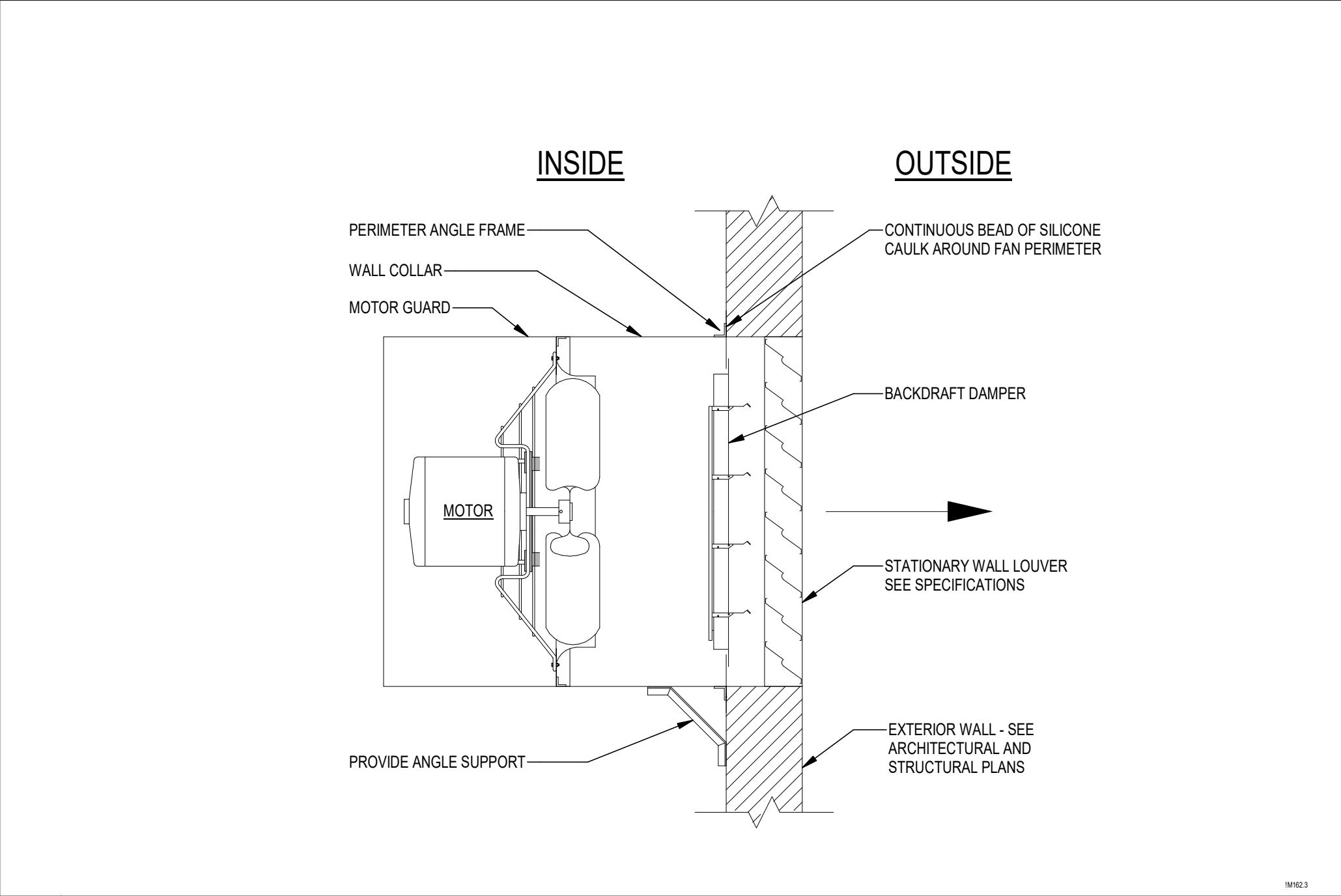
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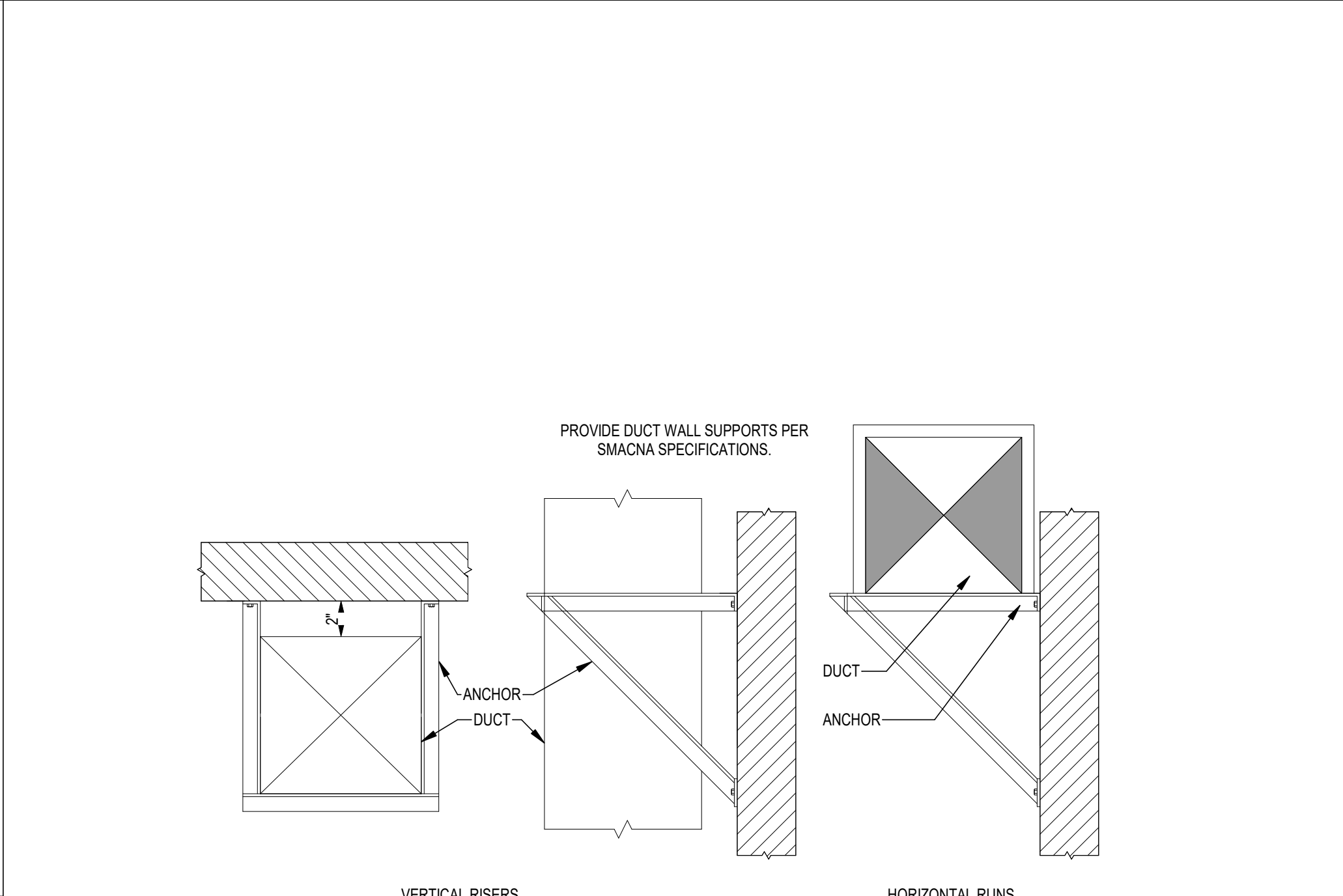
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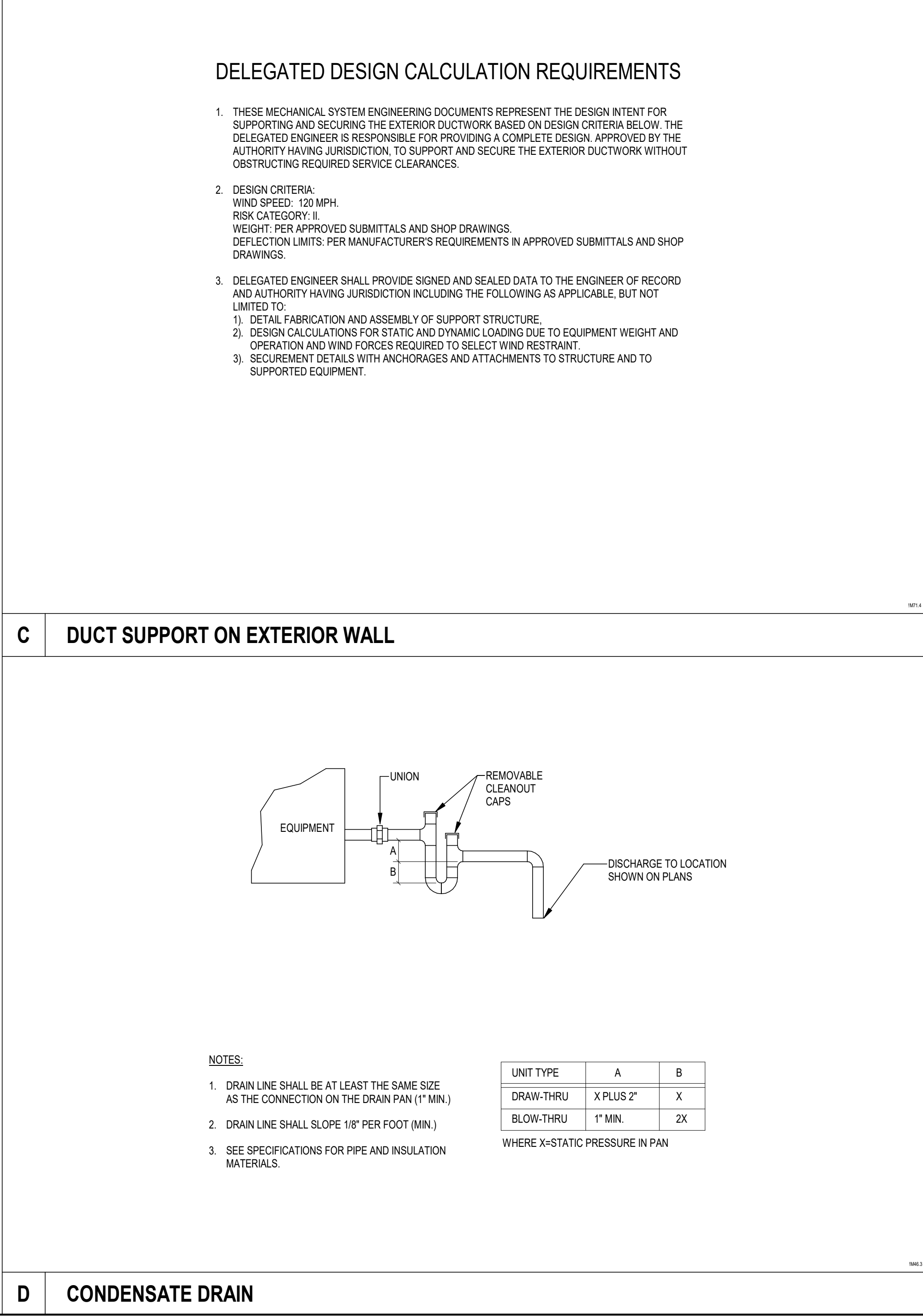
E PROPELLER WALL EXHAUST FAN



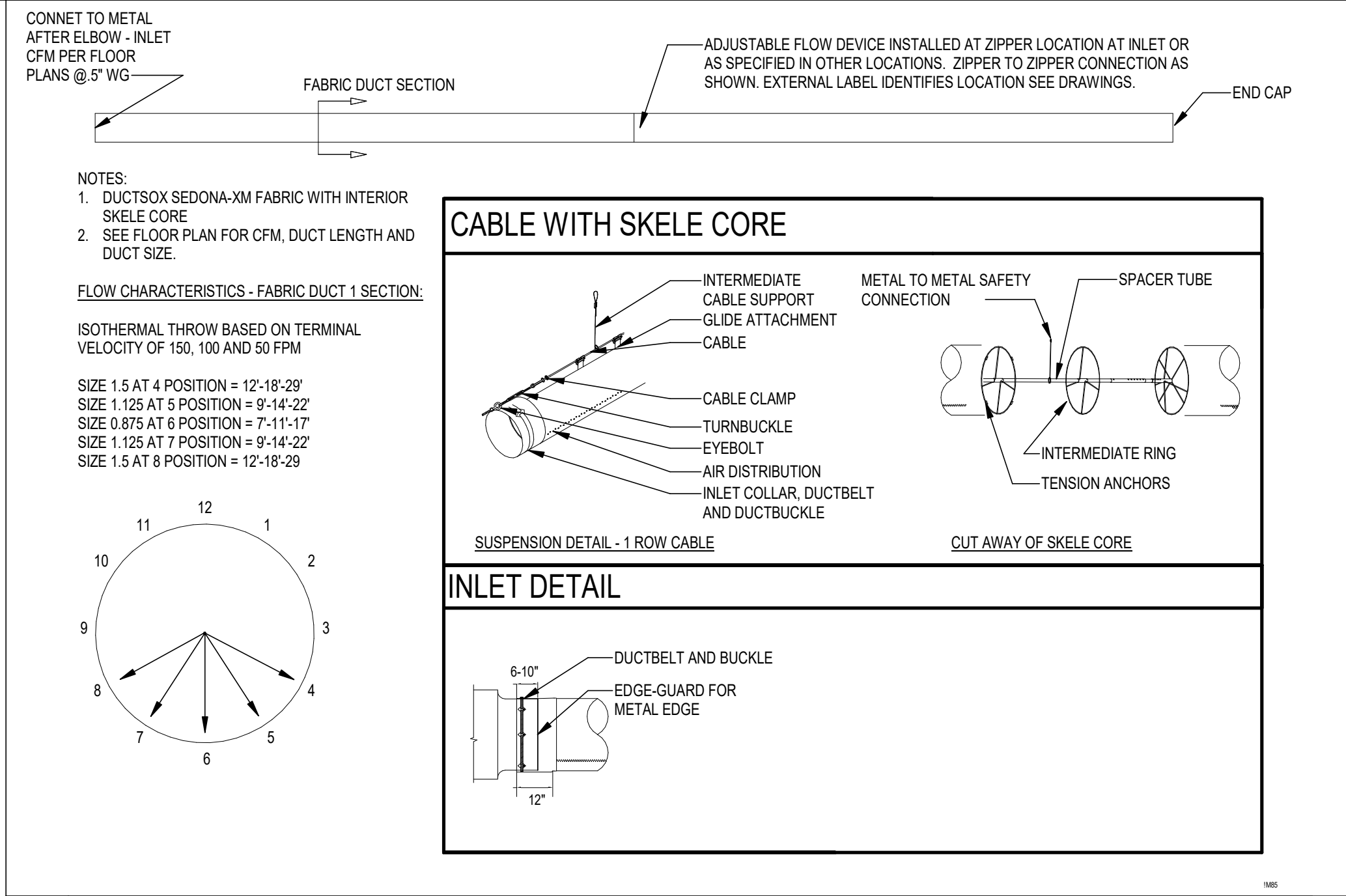
D CONDENSATE DRAIN



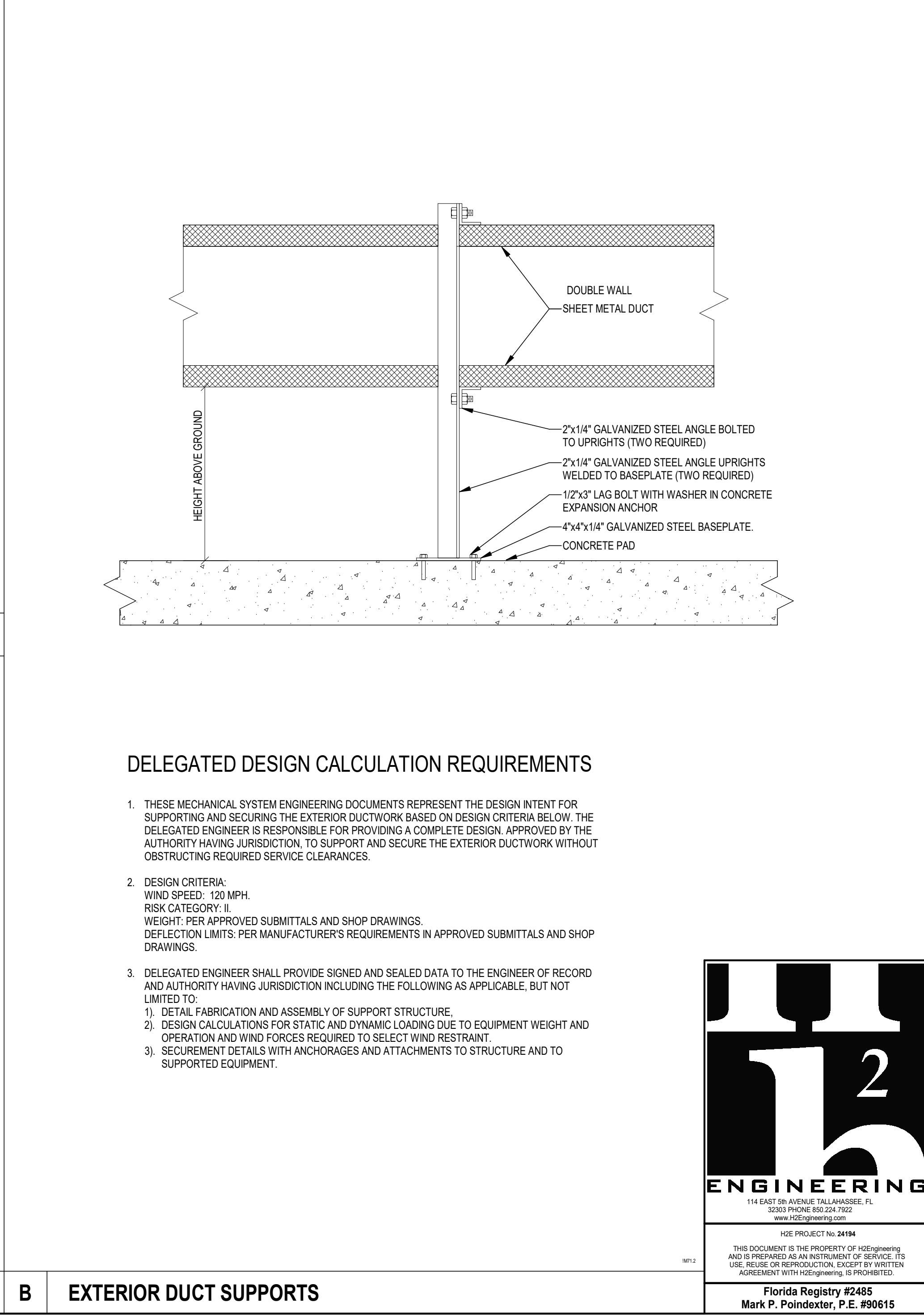
C DUCT SUPPORT ON EXTERIOR WALL



D CONDENSATE DRAIN



A FABRIC DUCT



B EXTERIOR DUCT SUPPORTS

bki
ARCHITECTURE

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FL Architecture Corporation AA20000280

SEAL:

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M-501

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MECHANICAL COMPONENTS (SHOWN IN DIAGRAMS)		SYMBOLS, NOTES, ABBREVIATIONS, ETC.			INSTRUMENTATION AND CONTROL NOTES		GENERAL NOTES		
 	FAN	IDENTIFICATION LETTERS			1. THE INTENT OF THE INSTRUMENTATION AND CONTROL DRAWINGS IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE SEQUENCE(S) OF OPERATION. THE DIAGRAMS, POINTS LISTS, AND SEQUENCES OF OPERATION INCLUDED HEREIN DESCRIBE THE INTENDED SEQUENCES OF OPERATION FOR SYSTEMS AND MAJOR COMPONENTS BUT DO NOT DEFINE IN DETAIL THE OPERATION OF MINOR COMPONENTS, RELAYS, SWITCHES, WIRING, OR OTHER SMALL DEVICES REQUIRED FOR THE PROPER OPERATION OF THE CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND/OR WIRING TO ACHIEVE THE SEQUENCE OF OPERATION. PROVIDE ALL CONTROL WIRING, CONDUIT, RELAYS, AND ELECTRICAL WORK REQUIRED AS INTEGRAL PART OF THE INSTRUMENTATION AND CONTROL SYSTEM UNLESS NOTED OTHERWISE. WORK SHALL COMPLY WITH REQUIREMENTS OF DIVISIONS 26, 27, AND 28 DRAWINGS AND SPECIFICATIONS. 3. ALL BAS CONFIGURATIONS (SETPOINTS, TIME DELAYS, RESET LIMITS, TUNING PARAMETERS, ETC) SHALL BE ADJUSTABLE BY THE OPERATOR THROUGH BAS WORKSTATION OR PORTABLE OPERATOR TERMINAL WITHOUT ANY HARDWARE OR SOFTWARE REVISIONS. 4. COORDINATE ALL WORK WITH OTHER TRADES INVOLVED. INTERFACE EQUIPMENT AND WIRING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. 5. COORDINATE BUILDING OCCUPANCY SCHEDULES (OCCUPIED AND UNOCCUPIED) WITH BUILDING OWNER. 6. COORDINATE INSTALLATION LOCATION OF ALL CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO: SENSORS, METERS, SWITCHES, VALVES, DAMPERS, ETC. COORDINATE AND ENSURE CONTROL DEVICES ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS, INCLUDING UPSTREAM AND DOWNSTREAM DIAMETERS FOR FLOW METERS, PROPER ORIENTATION TO PREVENT MOISTURE INTRUSION, AND DISTANCES FROM AIR OUTLETS TO ENSURE PROPER TEMPERATURE READINGS. 7. LOCATE THERMOSTATS AND OTHER WALL-MOUNTED CONTROL DEVICES REQUIRING OCCUPANCY MONITORING OR ADJUSTMENT AT AN ELEVATION 4'-0" ABOVE FINISHED FLOOR, IN ACCORDANCE WITH ADA REGULATIONS. 8. IF FIELD ADJUSTMENTS ARE MADE TO THE BAS CONFIGURATIONS DURING FINAL TESTING / VERIFICATION / COMMISSIONING, SET THE FACTORY DEFAULT VALUES IN THE CONTROLLERS TO MATCH FINAL VALUES. 9. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE, DAMPER, OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. 10. PROVIDE DUCT ACCESS DOOR AT EACH AIRFLOW MEASURING STATION. 11. CONTROLLED SYSTEMS SHALL AUTOMATICALLY RESET ON EMERGENCY POWER AND RESTORATION OF NORMAL POWER, UNLESS NOTED OTHERWISE. PROVIDE TIME DELAYS ON RESTART, AS NECESSARY, TO STAGGER THE START OF EQUIPMENT SO THAT ALL MOTORS DO NOT ATTEMPT TO START AT THE SAME TIME. 12. SAFETIES SHALL BE HARDWIRED UNLESS NOTED OTHERWISE.	FIRST - LETTER		SUCCEEDING - LETTERS	
	FAN ARRAY (COORDINATE WITH DIVISION 23 FOR FAN QUANTITY)	MEASURED OR INITIATING VARIABLE		READOUT OR PASSIVE FUNCTION		OUTPUT FUNCTION			
	COIL X = COOLING (C), HEATING HOT WATER (H), STEAM (S), REFRIGERANT (R), HEAT PIPE (HP), ELECTRIC HEATING (EH), RUN-AROUND LOOP (RL), GAS HEATING (GH), HOT GAS REHEAT(HG)	A	ANALYSIS	ALARM		-			
	DAMPER	B	BURNER, COMBUSTION	USER'S CHOICE (*)		USER'S CHOICE (*)			
	FILTER	C	USER'S CHOICE (*)	-		CONTROL			
	ULTRAVIOLET LIGHT	D	USER'S CHOICE (*)	DIFFERENTIAL		-			
	PRESSURE GAUGE OR DISPLAY	E	VOLTAGE	SENSOR (PRIMARY ELEMENT)		-			
	F	FLOW RATE, FLOW	-	-					
	G	GAS	GLASS, VIEWING DEVICE	-					
	H	HAND (MANUAL)	-	-					
	I	CURRENT (ELECTRICAL)	INDICATE	-					
	J	POWER	-	-					
	K	TIME, SCHEDULE	-	-					
ELECTRICAL COMPONENTS & CONTROLLER (SHOWN IN DIAGRAMS)		L	LEVEL	LIGHT (PILOT)		-			
	TRANSFORMER	M	MOISTURE, HUMIDITY	-		-			
	VARIABLE FREQUENCY DRIVE (PROVIDED BY OTHERS) - SEE WIRING DETAIL AMC-501	N	USER'S CHOICE (*)	USER'S CHOICE (*)		USER'S CHOICE (*)			
	MOTOR STARTER (PROVIDED BY OTHERS) - SEE WIRING DETAIL C/MC-501	O	USER'S CHOICE (*)	ORIFICE, RESTRICTION		-			
	MOTOR RATED CONTACTOR (PROVIDED BY DIV. 25) - SEE WIRING DETAIL B/MC-501	P	PRESSURE, VACUUM	POINT (TEST) CONNECTION		-			
	RELAY (NORMALLY OPEN)	Q	QUANTITY	INTEGRATE / TOTALIZE		-			
	RELAY (NORMALLY CLOSED)	R	RADIATION	RECORD		-			
	ELECTRIC MOTOR	S	SPEED, FREQUENCY	-		SWITCH			
		T	TEMPERATURE	-		TRANSMIT			
		U	MULTIVARIABLE	MULTIFUNCTION		MULTIFUNCTION			
		V	VIBRATION, MECHANICAL ANALYSIS	-		VALVE, DAMPER, LOUVER			
		W	WEIGHT, FORCE	WELL, PROBE		-			
		X	SMOKE, FIRE	UNCLASSIFIED		UNCLASSIFIED			
		Y	EVENT, STATE, OR PRESENCE	-		-			
		Z	POSITION, DIMENSION	-		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT			
COORDINATION NOTES		(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL.							
		GENERAL INSTRUMENT / FUNCTION SYMBOLS							
		CONTROL DEVICE / INSTRUMENT							
		MODIFIERS							
		INPUT / OUTPUT PARAMETER							
		SEQUENCE OF OPERATION DEFINITIONS							
		ENABLE							
		START							
		DISABLE							
		STOP							
		PROVE							
		100%							
		0%							
</									

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Vehicle Storage

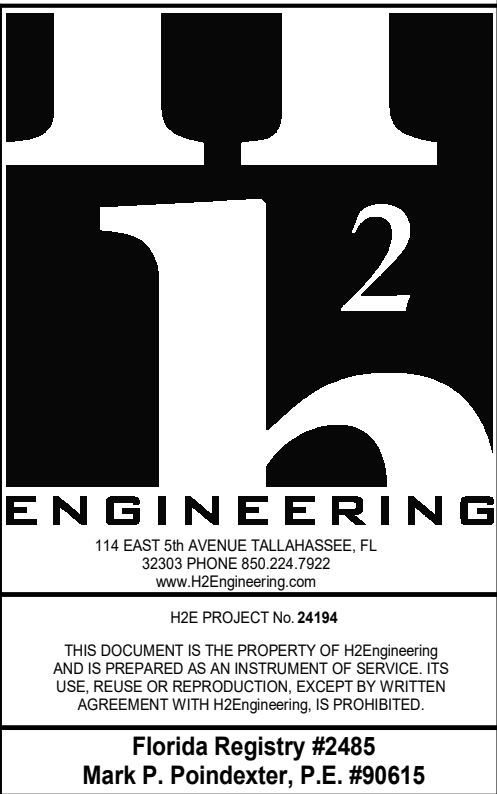
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① Floor Plan - Vehicle Storage
3/16" = 1'-0"



MISCELLANEOUS



1. PAC-1.1

NOTES:

1	SEE MOTOR CONTROLLER DETAILS (VFD, MOTOR STARTER, OR MOTOR CONTACTOR)
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SINGLE ZONE VAV PACKAGED UNIT



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- The logo for H2E Engineering features a large, stylized 'H' and 'E' in a bold, black, sans-serif font. A large, white, stylized '2' is positioned between the 'H' and 'E'. Below the 'H2E' graphic, the word 'ENGINEERING' is written in a smaller, black, sans-serif font.
- H2E**
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