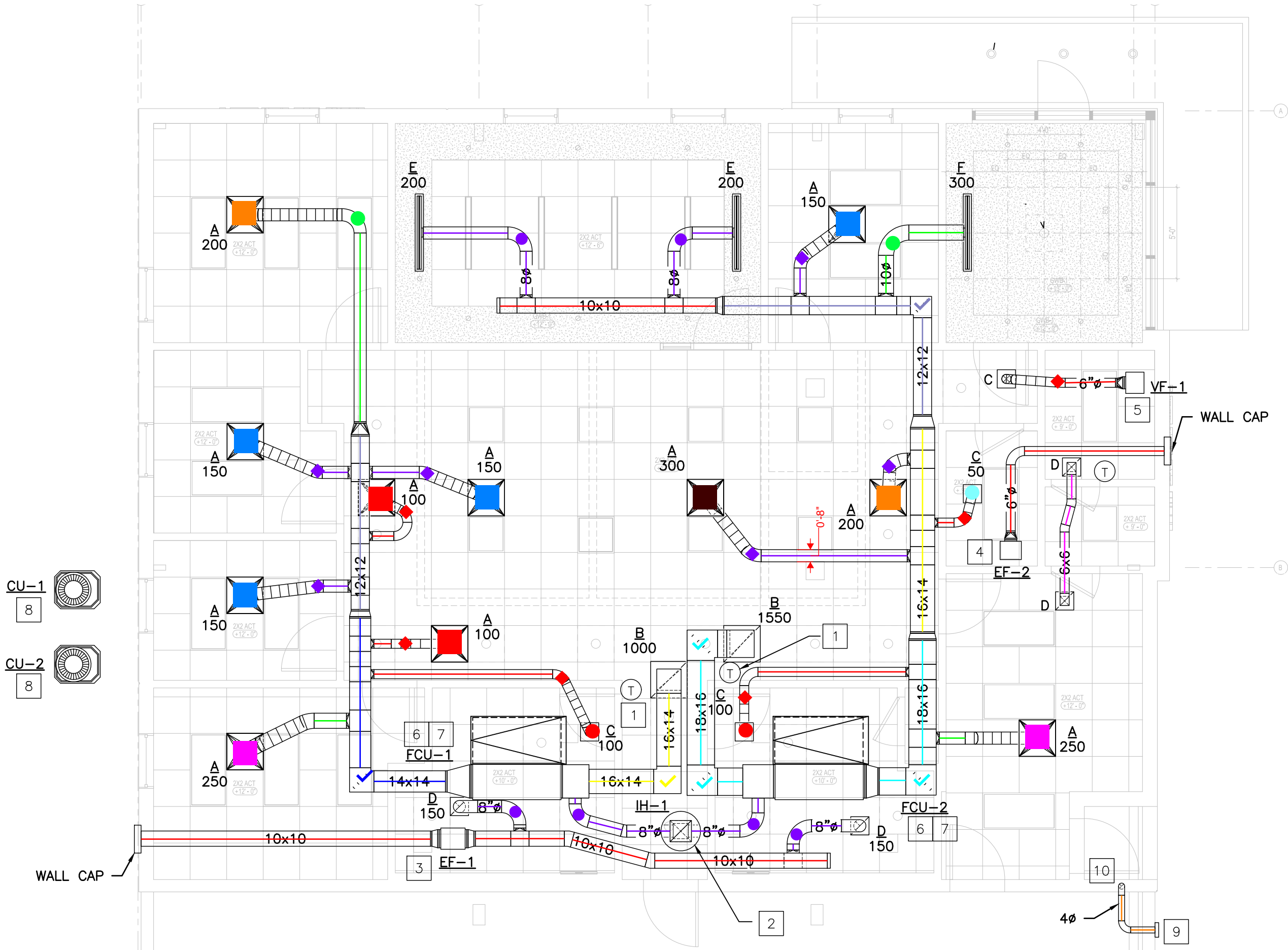


GRAVITY HOOD SCHEDULE				
MARK	IH-1	-		
SERVICE	FCU-1	-		
INTAKE/RELIEF	INTAKE	-		
CFM (COMMON/ECONOMIZER)	400	-		
HOOD SIZE (DIAMETER)	12"ø	-		
MIN. THROAT AREA (SQ. FT.)	0.79	-		
THROAT AREA VELOCITY (FPM)	506	-		
MAX. P.D. (IN. W.G.)	0.05	-		
MANUFACTURER	L. COOK	-		
MODEL NO.	12PR	-		
NOTES	1	-		
NOTES: 1. PROVIDE ROOF CURB. 2. PROVIDE BAROMETRIC DAMPER SIMILAR TO RUSKIN CBD6 SET AT 0.05 IN. WG; 0.125" EXTRUDED ALUMINUM FRAME; 0.070" BLADES w/ VINYL EDGE SEALS.				

MECHANICAL FAN SCHEDULE													
TAG	FLOW RATE	STATIC PRESSURE		MOTOR DATA		ELECTRICAL DATA		MAXIMUM LOUDNESS	BASIS OF DESIGN		NOTES		
		EXTERNAL	IN WG	LOAD	SPEED	MCA	MOCP		VOLTAGE	SONES		MANUFACTURER	MODEL OR SERIES
EF-1	300	0.2	-	1500	1.0	15	120	4	L. COOK	GN-422	1-3		
EF-2	75	0.15	-	750	0.4	15	120	.9	L. COOK	GC-128	2-4		
VF-1	75	0.15	-	750	0.4	15	120	.9	L. COOK	GC-128	2,3,5		
NOTES: 1. INTERLOCK WITH LIGHTS IN ROOM 2. PROVIDE FACTORY MOUNTED AND INSTALLED DISCONNECT. 3. PROVIDE ACCESS DOOR TO SERVICE UNIT IF IN HARD CEILING. 4. PROVIDE MOTOR RATED SWITCH. 5. INTERLOCK EXHAUST FAN TO T-STAT AND SET CUT-ON TEMP TO 80F													

MECHANICAL AIR TERMINAL DEVICES SCHEDULE						
TAG	SIZE	DESCRIPTION	CONSTRUCTION	BASIS OF DESIGN		NOTES
			FINISH	MANUFACTURER	MODEL OR SERIES	
A	24X24	LOUVERED FACE SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TMS-AA	1-5
B	24X24	PERFORATED FACE RETURN AIR GRILLE	ALUMINUM	TITUS	PAR-A	1-5
C	12X12	LOUVERED FACE SUPPLY AIR DIFFUSER	ALUMINUM	TITUS	TMS-AA	1-5
D	12X12	PERFORATED FACE RETURN AIR GRILLE	ALUMINUM	TITUS	PAR-A	1-5
E	4" 8" Inlet	1" SLOT HIGHTHROW PATTERN LINEAR DIFFUSER 2- SLOT	ALUMINUM	TITUS	FL-10	ALL
F	4" 8" Inlet	1.5" SLOT HIGHTHROW PATTERN LINEAR DIFFUSER 2- SLOT	ALUMINUM	TITUS	FL-15	ALL
NOTES: 1. PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN. 2. PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT, DUCTWORK, AND STRUCTURAL MEMBERS. 3. PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING. IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING. 4. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE. 5. AIR DEVICE SHALL BE OF GALVANIZED FINISH WHEN INSTALLED ON EXPOSED DUCTWORK. 6. COORDINATE SLOT DIFFUSER FRAME/BORDER TYPE AND END BORDER CONFIGURATION WITH CEILING TYPE. FOR ROUND NECK DIFFUSERS: 6" DIA: 0-120 CFM 8" DIA: 125-220 CFM 10" DIA: 225-380 CFM 12" DIA: 385-600 CFM						

MECHANICAL EQUIPMENT (ELECTRIC HEAT) SCHEDULE																					
TAG	FLOW RATE		STATIC PRESSURE		ELECTRICAL DATA			DX COOLING				ELECTRIC HEATING			BASIS OF DESIGN						NOTES
	SUPPLY	OA	EXTERNAL	MCA	MOCP	VOLTAGE	SENSIBLE	TOTAL	ENT. AIR TEMP	LEA. AIR TEMP	COIL										
	CFM	CFM	IN WG	AMPS	AMPS		MBH	MBH	DB/WB	DB/WB	STAGES	KW	VOLTAGE	MANUFACTURER	MODEL OR SERIES	HP	SEER/EER	WEIGHT (LBS)			
FCU- 1	1200	200	0.6	28	30	208/3Ø	33.9	42.9	80/69	58/56	1	7.2	208/3Ø	TRANE	TEM4A0B42	1/2	15.5 SEER	133	1		
CU- 1	-	-	-	21	35	208/3Ø	-	-	-	-	-	-	-	TRANE	4TTR6042J	-	-	305	2		
FCU- 2	1750	200	0.6	40	45	208/3Ø	39.6	46.8	80/69	58/56	1	7.2	208/3Ø	TRANE	TEM5A0C60	1/2	15.5 SEER	143	1		
CU- 2	-	-	-	30	45	208/3Ø	-	-	-	-	-	-	-	TRANE	4TTR6060J	-	-	306	2		
NOTE: 1. UNIT TO BE PROVIDED WITH ELECTRIC HEAT, FAN, DX COOLING COIL AND FILTER SECTION. 2. PROVIDE CONCRETE PAD AND HAIL GUARD.																					



MECHANICAL GENERAL NOTES:

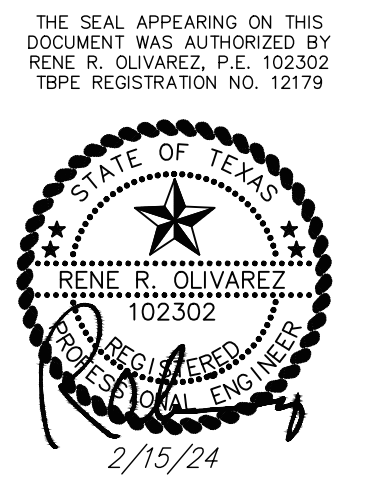
- CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.
- NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURE ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED. VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC...
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
- ALL EXPOSED DUCTWORK SHALL BE AS SHOWN, DOUBLE-WALL, INSULATED METAL, PRIMED FOR PAINTING, UNLESS OTHERWISE NOTED ON PLAN. ALL CONCEALED DUCTWORK SHALL BE INSULATED DUCT BOARD RECTANGULAR UNLESS ALLOWED IN WRITING BY THE ENGINEER OF RECORD. COORDINATE FINAL FINISH WITH ARCHITECT.
- COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.
- ALL EXHAUST FANS SCHEDULED TO BE AUTOMATICALLY CONTROLLED BY MECHANICAL AIR HANDLERS SHALL BE CONNECTED BY MEANS OF AN AUXILIARY RELAY. PROVIDE AUXILIARY RELAY AS NEEDED.
- ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.

KEYED NOTES:

- LOCATION OF DIGITAL THERMOSTAT CONTROL. PROVIDE LOCKABLE COVER.
- PROVIDE ROOF MOUNTED INTAKE HOOD AS SPECIFIED ON SCHEDULE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
- PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH LIGHTS IN THIS ROOM. REFER TO ELECTRICAL LIGHTING PLAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION. PROVIDE WALL CAP EQUAL TO LOREN COOK WCR6-ALUM AND INSTALL BOTTOM OF WALL CAP AT SAME HEIGHT AS EXHAUST FAN.
- PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH DEDICATED MOTOR RATED SWITCH. REFER TO ELECTRICAL LIGHTING PLAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION. PROVIDE WALL CAP EQUAL TO LOREN COOK WCR6-ALUM AND INSTALL BOTTOM OF WALL CAP AT SAME HEIGHT AS EXHAUST FAN.
- PROVIDE ACCESS PANEL FOR CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH T-STAT AND SET CUT-ON TEMP TO 80F. REFER TO ELECTRICAL LIGHTING PLAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
- CONTRACTOR TO RUN CONDENSATE DRAIN TO MOP SINK IN JANITOR CLOSET.
- COORDINATE FINAL LOCATION OF FCU'S WITH ARCHITECT AND OWNER. PROVIDE ACCESS PANEL AS REQUIRED, COORDINATE WITH ARCHITECT.
- COORDINATE FINAL LOCATION OF CU'S WITH OWNER AND ARCHITECT.
- PROVIDE DRYER EXHAUST VENT CAP EQUAL TO BROAN 642. COORDINATE EXACT PENETRATION LOCATION WITH ARCHITECT.
- PROVIDE DRYERBOX MODEL 350 OR EQUAL. RUN 4\"/>

2705 E. DAVIS RD.
EDINBURG TEXAS 78539
PH. 956.513.1849

RO ENGINEERING, PLLC



PROJECT #: 2319

TRDI OFFICE AND
WAREHOUSE

931 W. SHARM DR.
PHARR, TX 78577

DRAWN BY: H.M.
REVIEWED BY: R.O.

ISSUED DATE: 2/15/24

REVISION / ADDENDA

NO. DATE DESCRIPTION

SHEET TITLE:

MECHANICAL
PLAN

SHEET

M1.0