

Revisions

AMENDMENT #1

5/10/13

Date

NOTE: THE RESIDENT ENGINEER MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY COMPROMISE IN THE FIRE SUPPRESSION OR SMOKE DETECTION SYSTEMS. A CORRECTION TO THE SAFETY MEASURES MUST BE OBTAINED AND FOLLOWED DURING CONSTRUCTION.

5/10/13

SEAL

STATE OF TEXAS

REGISTERED PROFESSIONAL ENGINEER

MECHANICAL

101331

101331

McCALL & ASSOCIATES-AIA-ARCHITECTS

ARCHITECTURE • PLANNING • DESIGN • VISUALIZATION

8601 N. New Braunfels, Suite 201 • San Antonio, Texas 78217 • (210) 824-8444 • Fax

Approved Assistant Director	Approved Chief of Staff
Approved Service Chief	Approved Service Chief
Approved Chief, Bldg	Approved Chief, Bldg
Approved Chief, IT	Approved Chief, Info
Approved Chief, Safety	Approved Chief

Drawing Title

MECHANICAL SCHEDULES AND DETAILS

Project Title

SICU MODIFICATIONS SECOND FLOOR

Building Number

1

Checked

C.S.

Drawing

B.A.

Location

Walter L. Murphy Veterans Hospital
San Antonio, Texas

Drawn

07-25-12

Project No.

671-232B

DRAWING NO.

H2-1

Day

10 of 14

CLEARLY ZIMMERMANN ENGINEERS

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12053

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Office Of Facilities

Department of Veterans Affairs

NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN ABOVE SHALL APPLY.

2 DUCT MOUNTED EQUIPMENT

NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN ABOVE SHALL APPLY.

3 DUCT TRANSITION DETAIL

AIR DEVICE SCHEDULE											
MARK	MODEL	SIZE	THROW (@ 100 FPM)	CFM RANGE	INLET	# SLOTS	O.B.D. REQ'D. ?	P.D. (W/G) *	MAX. NC	REFERENCE	NOTES
A	PSS-4A	24"x24"	10'-FT	130-310	8" X 8"	N/A	NO	0.10	26	TITUS	1
B	TDC-4A (A3-2)	6" X 9"	8'-FT	300	6" X 9"	N/A	NO	0.04	-	TITUS	
RA	50F	8x8"	-	0-200	6" x 6"	N/A	NO	0.07	22	TITUS	
RB	50F	10x12"	-	200-500	8" x 10"	N/A	NO	0.08	23	TITUS	

* AT MAX. CFM

KEYED NOTES (AIR DEVICE SCHEDULE):

- FIELD INSULATE FLENUM BOX OR BACKSIDE OF DIFFUSER.
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- STEEL CONSTRUCTION.
- O.B.D. REQUIRED AT DUCTED EXHAUST LOCATION ONLY.
- 25 DEGREE DEFLECTION, 14" BRACE SPACING.
- 24x24" MODULE SIZE FOR LAV-IN CEILING INSTALLATION.
- 1-WAY SQUARE DISCHARGE PATTERN.

GENERAL NOTES (AIR DEVICE SCHEDULE):

- ALL AIR DEVICES TO BE ALUMINUM, WHITE FINISH, UNLESS NOTED OTHERWISE.
- REFLECTOR CEILING REQUIRED FOR ALL AIR DEVICES MOUNTED IN A DUCT.
- FOR 2-WAY DISCHARGE, THROWS LISTED REFLECT AIRFLOW IN A SINGLE DIRECTION.
- P.D. (TW) REFLECTS TOTAL PRESSURE (STATIC AND DYNAMIC).

FAN SCHEDULE											
MARK	TYPE	MANUFACTURER & MODEL	SERVICE	CFM	S.P. (TWG)	MAX. BHP	H.P. V/PH	DRIVE	CONTROL	NOTES	
SFF-2-1D	HIGH-P-RUPE	WM PLASTICS, EXISTING	ISOLATION ROOM	510	2.00	-	.75	460/3	BELT	DDC	6, 7, 8, 9, 10
SFF-2-3D	HIGH-P-RUPE	COOK, EXISTING	ISOLATION ROOM	520	2.00	1.80	.2	269/3	BELT	DDC	1, 2, 3, 4, 5, 9, 10

NOTES (FAN SCHEDULE):

- PROVIDE 1/2" MIN. SPACING BETWEEN ROOF CURB AND EXHAUST NOZZLE TO REACH 10' ABOVE ROOF DECK.
- NEAR 3R DISCONNECT FACTORY MOUNTED AND WHEED. FAN TO HAVE UL-705 LABEL.
- MANUFACTURER TO PROVIDE 20 YEAR WARRANTY FOR DISCHARGE NOZZLE.
- PROVIDE ISOLATION DAMPERS(S), W/ANG INLET BOX AND COMMON MOUNTING BASE FOR FAN.
- PROVIDE 1/2" MIN. SPACING BETWEEN ROOF CURB AND EXHAUST NOZZLE TO REACH 10' ABOVE ROOF DECK.
- BALANCE EXISTING DAMPERS TO PROVIDE 510 CFM FROM OCCUPIED SPACE.
- PROVIDE A NEW, 14" TALL ROOF CURB FOR FAN/FLENUM ASSEMBLY.
- PROVIDE HOUSED SPRING ISOLATORS. ANCHOR FAN TO SUPPORT RAILS.
- FAN SHALL RUN CONTINUOUSLY. MONITOR FAN STATUS THRU DDC USING CURRENT TRANSFORMER. ALARM UPON LOSS OF POWER.
- PROVIDE A 1/4" ID WHITE WARNING SIGN ON THE FAN NOZZLE. EQUAL TO SIGN: 002-0135 FROM WWW.COMPLANCESIGN.COM.

IN-LINE FILTER FRAME

DESIGNATION	FACE VELOCITY(FPM)	SIZE (LxW)	STATIC P.D. (CLEAN)	STATIC P.D. (DIRTY)	REFERENCE
HEPA-2-2D	275	26.375" W X 16.57" H	1	1.5	CANFL FARR

NOTE: PROVIDE 99.99% @ 3 MICRON HEPA FILTER. SIMILAR TO CANFL FARR. PA 1505-01-01 24 X 12 X 11.5 DP.

ROOM AIR BALANCES AND PRESSURIZATION SCHEDULE

ZONE#	NAME	AHU	S/A CFM	R/A CFM	SPECIAL EXH. CFM	NET INFLUE. (EXPLU.)	PRESSURIZATION ±
1	ISOLATION RM D211	AC-2-1D	110	-	510	400	- (1)
2	ANTE RM D212	AC-2-1D	200	-	-	(200)	± (2)
3	ISOLATION RM D213	AC-2-1D	120	-	520	400	- (1)

(1) NEGATIVE WITH RESPECT TO ANTE ROOM AND CORRIDOR
(2) NEGATIVE WITH RESPECT TO CORRIDOR POSITIVE WITH RESPECT TO ISOLATION ROOM