Date	December 9th 2010
Revision No.	0
Project Name	**Corpus Christi Medical Center – Emergency Dept**
System	RTU-1
Application No.	NC10-1341
Rep Name	Oktay Basci
Rep Office	Mechanical Reps Inc.
Engineer Name	Arthur R. Linden
Engineer Office	Redding Linden Burr – Consulting Engineers
Architect Name	--
Architect Office	--

Price Acoustic Predictive Analysis

Project Name: Corpus Christi Medical Center – Emerg Dept
Systems: RTU-1 SUP
Application No.: NC10-1341
Building Owner: --
Engineer: Arthur R. Linden
Project ID: Supply - No silencer

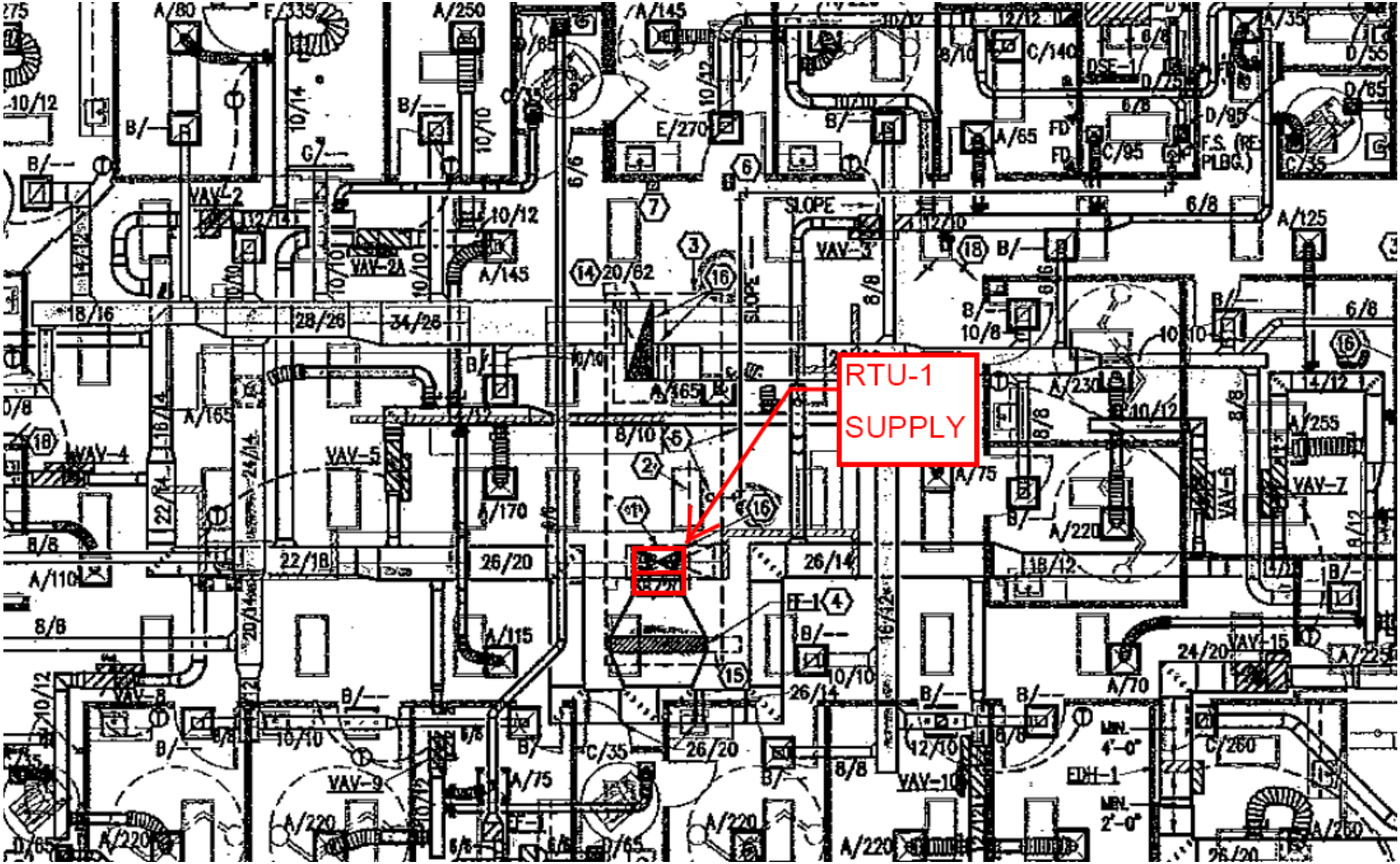
Path	Element	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Comments
Path1									
	Custom Element	84	86	91	86	84	81	76	RTU-1 SUP
	Straight Duct(RU1)	-1	-1	-1	0	0	0	0	
	Junction (T,atten.)	-3	-3	-3	-3	-3	-3	-3	
	SubSum	80	82	87	83	81	78	73	
	Junction (T,regen.)	0	0	0	0	0	0	0	Regenerated sound from junction.
	SubSum	80	82	87	83	81	78	73	
	Straight Duct(RU1)	-1	-1	0	0	0	0	0	
	Elbow (ul.sq.rct)	0	-1	-3	-6	-4	-4	-4	
	SubSum	79	80	84	77	77	74	69	
	Elbow (regen.)	37	35	29	21	10	0	0	Regenerated sound from elbow.
	SubSum	79	80	84	77	77	74	69	
	Straight Duct(RU1)	-2	-1	-1	0	0	0	0	
	Elbow (ul.sq.rct)	0	-1	-3	-6	-4	-4	-4	
	SubSum	77	78	80	71	73	70	65	
	Elbow (regen.)	36	34	29	20	9	0	0	Regenerated sound from elbow.
	SubSum	77	78	80	71	73	70	65	
	Junction (T,atten.)	-6	-6	-6	-6	-6	-6	-6	
	SubSum	71	72	74	65	67	64	59	
	Junction (T,regen.)	0	0	0	0	0	0	0	Regenerated sound from junction.
	SubSum	71	72	74	65	67	64	59	
	Straight Duct(RU1)	-10	-5	-3	-2	-2	-2	-2	
	Elbow (ul.rad.rct)	0	0	-1	-2	-3	-3	-3	
	SubSum	61	67	70	61	62	59	54	
	Elbow (regen.)	0	0	0	0	0	0	0	Regenerated sound from elbow.
	SubSum	61	67	70	61	62	59	54	
	Junction (T,atten.)	-4	-4	-4	-4	-3	-3	-3	
	SubSum	57	63	66	57	59	56	51	
	Junction (T,regen.)	0	0	0	0	0	0	0	Regenerated sound from junction.
	SubSum	57	63	66	57	59	56	51	
	Straight Duct(RU1)	-5	-3	-2	-1	-1	-1	-1	
	Elbow (ul.rad.rct)	0	0	-1	-2	-3	-3	-3	
	SubSum	52	60	63	54	55	52	47	
	Elbow (regen.)	0	0	0	0	0	0	0	Regenerated sound from elbow.
	SubSum	52	60	63	54	55	52	47	
	Indoor (Regression)	-8	-8	-7	-8	-9	-9	-11	
	Sum	44	52	56	46	46	43	36	
NC 47	RC 45(N)	52 dBA							

Price Acoustic Predictive Analysis

Project Name: Corpus Christi Medical Center – Emerg Dept
Systems: RTU-1 SUP
Application No.: NC10-1341
Building Owner: --
Engineer: Arthur R. Linden
Project ID: Supply - With Silencer

Path	Element	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Comments
Path1									
	Custom Element	84	86	91	86	84	81	76	RTU-1 SUP
	Custom Element	-7	-10	-16	-22	-33	-36	-31	**ERMT60/4E**
	Straight Duct(RU1)	-1	-1	-1	0	0	0	0	
	Junction (T,atten.)	-3	-3	-3	-3	-3	-3	-3	
	SubSum	73	72	71	61	48	42	42	
	Junction (T,regen.)	0	0	0	0	0	0	0	Regenerated sound from junction.
	SubSum	73	72	71	61	48	42	42	
	Straight Duct(RU1)	-1	-1	0	0	0	0	0	
	Elbow (ul.sq.rct)	0	-1	-3	-6	-4	-4	-4	
	SubSum	72	70	68	55	44	38	38	
	Elbow (regen.)	37	35	29	21	10	0	0	Regenerated sound from elbow.
	SubSum	72	70	68	55	44	38	38	
	Straight Duct(RU1)	-2	-1	-1	0	0	0	0	
	Elbow (ul.sq.rct)	0	-1	-3	-6	-4	-4	-4	
	SubSum	70	68	64	49	40	34	34	
	Elbow (regen.)	36	34	29	20	9	0	0	Regenerated sound from elbow.
	SubSum	70	68	64	49	40	34	34	
	Junction (T,atten.)	-6	-6	-6	-6	-6	-6	-6	
	SubSum	64	62	58	43	34	28	28	
	Junction (T,regen.)	0	0	0	0	0	0	0	Regenerated sound from junction.
	SubSum	64	62	58	43	34	28	28	
	Straight Duct(RU1)	-10	-5	-3	-2	-2	-2	-2	
	Elbow (ul.rad.rct)	0	0	-1	-2	-3	-3	-3	
	SubSum	54	57	54	39	29	23	23	
	Elbow (regen.)	0	0	0	0	0	0	0	Regenerated sound from elbow.
	SubSum	54	57	54	39	29	23	23	
	Junction (T,atten.)	-4	-4	-4	-4	-3	-3	-3	
	SubSum	50	53	50	35	26	20	20	
	Junction (T,regen.)	0	0	0	0	0	0	0	Regenerated sound from junction.
	SubSum	50	53	50	35	26	20	20	
	Straight Duct(RU1)	-5	-3	-2	-1	-1	-1	-1	
	Elbow (ul.rad.rct)	0	0	-1	-2	-3	-3	-3	
	SubSum	45	50	47	32	22	16	16	
	Elbow (regen.)	0	0	0	0	0	0	0	Regenerated sound from elbow.
	SubSum	45	50	47	32	22	16	16	
	Indoor (Regression)	-8	-8	-7	-8	-9	-9	-11	
	Sum	37	42	40	24	13	7	5	

NC 29 RC 15(R) 33 dBA


RTU-1
SUPPLY
VAV-1
VAV-2
VAV-2A
VAV-3
VAV-4
VAV-5
VAV-6
VAV-7
VAV-8
VAV-9
VAV-10
VAV-15
FT-1
EDH-1
SLOPE
MIN. 4'-0"
MIN. 2'-0"
F.S. (RE: PLBG.)
FD

AIO Silencer Schedule

Job Name:	Corpus Christi Medical Center – Emergenc		
Engineer:	Redding Linden Burr – Consulting Engineers Arthur R. Linden	Date:	6/9/2011
Contractor:		Job #:	QP00000430
Customer:	Mechanical Reps Inc.	Revision:	

Page: 1 of 1 Units: Imperial

Bank Information									Duct System Information					Dynamic Insertion Loss (dB) / Generated Noise							
Tag	Qty	Model	Width in.	Height in.	Duct Dia. in.	Length in.	Leg A in.	Leg B in.	Direction	Velocity fpm	Flow cfm	PD in. w.g.	PD w/ SE in. w.g.	63	125	250	500	1K	2K	4K	8K
RTU-1 SUP	1	ERMT60/4E	20	38	--	60	40	40	Forward	866	4570	0.37	--	7	10	16	22	33	36	31	23
														48	46	40	41	41	35	37	29

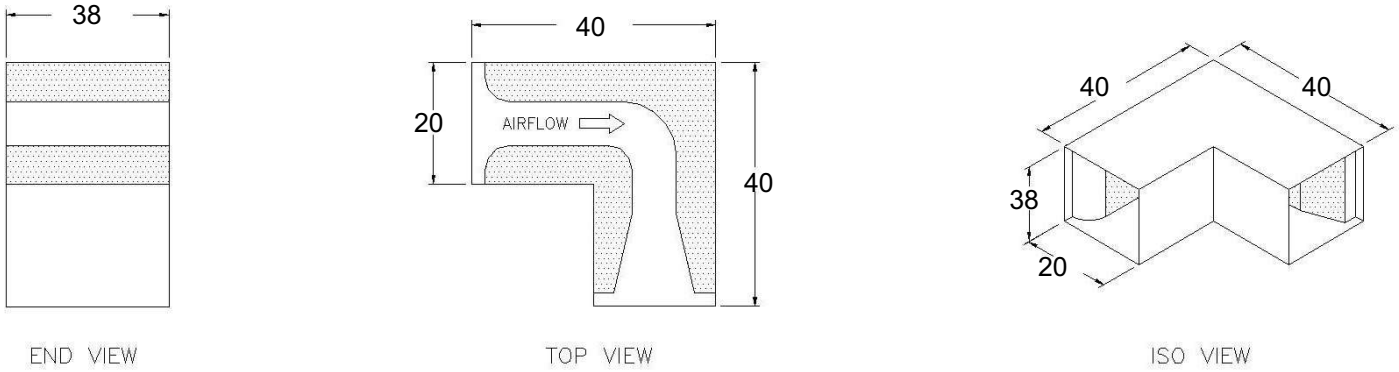
Construction Notes: 18 gauge galvanized casing, 22 gauge galvanized perforated liner, glass fiber acoustic media, Mylar film bagged, acoustic standoff, 1" Slip connection

Notes:
- Perfomance data is derived from test values obtained in accordance with ASTM E477-06a.
- The installed silencer may have increased pressure drop resulting from system effect caused by duct elements located upstream or downstream of the silencer.
- Dynamic insertion losses are limited to 55 dB due to flanking. Please contact your local Price representative if insertion loss values greater than 55 dB are required.
- All material used in the construction of Price silencers meets or exceeds a flame spread classification of 25 and a smoke development rating of 50 when tested in accordance with ASTM E84, UL723 and NFPA255.

Submittal Sheet

SILENCER BANK INFORMATION						COMPONENT INFORMATION	
Quantity:	1	Width (in.):	20	Center Line (in.):	60	Quantity:	1
Model:	ERMT60/4E	Height (in.):	38	Inlet Leg (in.):	40	Width:	20
Weight (lb):	180	Configuration:	Un-nested	Outlet Leg (in.):	40	Height:	38

BANK CONFIGURATION



Images are generic representations of the silencer. The actual configuration may not be as shown.

PERFORMANCE

AIRFLOW		DYNAMIC INSERTION LOSS (dB)							
Air Volume (cfm):	4570	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 HZ
Air Velocity (fpm):	866	7	10	16	22	33	36	31	23
Direction:	Forward	GENERATED NOISE (dB)							
Pressure Drop (in. w.g.):	0.37	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
		48	46	40	41	41	35	37	29

SILENCER CONSTRUCTION OPTIONS

Casing: 18 GA Galvanized	**Acoustic Media:** Glass Fiber	**Inlet Connection:** 1" Slip
Perforated Liner: 22 GA Galvanized	**Media Protection:** Mylar Film Bagged	**Outlet Connection:** 1" Slip

NOTES

- Perfomance data is derived from test values obtained in accordance with ASTM E477-06a.
- The installed silencer may have increased pressure drop resulting from system effect caused by duct elements located upstream or downstream of the silencer.
- Dynamic insertion losses are limited to 55 dB due to flanking. Please contact your local Price representative if insertion loss values greater than 55 dB are required.
- All material used in the construction of Price silencers meets or exceeds a flame spread classification of 25 and a smoke development rating of 50 when tested in accordance with ASTM E84, UL723 and NFPA255.
- Acoustic Standoff is provided standard with film liner media protection options.

PROJECT: Freestanding Emerg Dept		
ENGINEER:	**Units of Measure:** Imperial	**ERMT60/4E** Elbow Silencer Absorptive
CUSTOMER:	**Rev. Level:**	
SUBMITTAL DATE: 12/13/2010	**Tag:** RTU-1 SUP	