

FAN AND MOTOR DATA			
REFERENCE		SF-0041	RF-0041
AREA SERVED/LOCATION		AH-0041 SUPPLY	EXHAUST
AIR FLOW RATE - REBALANCED (CFM)		15135	11320
AIR FLOW RATE - ACTUAL CURRENT (CFM)		13550	10980
FOR REFERENCE	AIR FLOW RATE - ORIGINAL "PRESENT" DESIGN (CFM)	12640	12510
	AIR FLOW RATE - ORIGINAL "FUTURE" DESIGN (CFM)	15000	-
	FAN TYPE	CENT	IN-LINE
	WHEEL TYPE	BIDW	AFSW
	WHEEL DIAMETER	22"	33"
	STATIC PRESSURE - ORIGINAL "PRESENT" DESIGN	4.4	1.55
	STATIC PRESSURE - ORIGINAL "FUTURE" DESIGN	5.5	-
	EXISTING BRAKE HORSEPOWER	21.6	4.3
	MOTOR HORSEPOWER	30	5
	EXISTING RPM	1990	6.6
DRIVE/CONTROL		V-BELT/VSMC	V-BELT

- NOTES:
- REBALANCE EXISTING FANS TO REVISED AIR FLOW RATES AS INDICATED.
  - COMPLETE DUCTWORK SYSTEMS ASSOCIATED WITH AH-0041 AND EF-52 SHALL BE TESTED, ADJUSTED AND BALANCED. VERIFY THAT FINAL AIR FLOW RATES FOR EXISTING DUCTWORK WHICH IT TO REMAIN MATCH THE DESIGN AIR FLOW RATES AS INDICATED ON REFERENCE SHEETS H3-1.2 AND H5-1.7.
  - AIR FLOW RATES AND STATIC PRESSURES IDENTIFIED ABOVE AS ORIGINAL "PRESENT" AND ORIGINAL "FUTURE" ARE FROM THE 1991 SCHEDULES. AIR FLOW RATE IDENTIFIED AS ACTUAL CURRENT IS FROM THE 1991 PLANS.

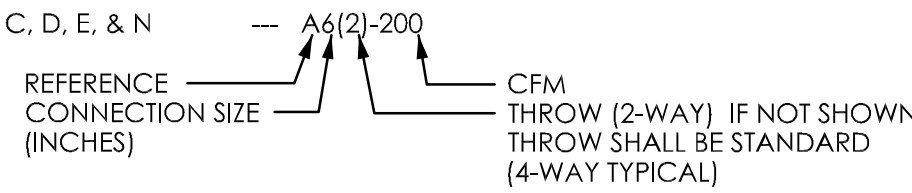
DIFFUSER, REGISTER, AND GRILLE SCHEDULE																						
TYPE		MODEL NUMBERS		ACCESSORIES				MATERIAL		FINISH		COLOR								REMARKS		
REF	SERVICE AND TYPE	TITUS	KRUEGER	CONTROL GRID	OPPOSED BLADE DAMPER	SOFT ROUND DAMPER	SEPARATE PLASTER FRAME	OTHER DAMPER	STEEL	ALUMINUM	OTHER	BAKED ENAMEL	LACQUER	ANODIZED	STANDARD GREY	CLEAR OR LACQUER	STANDARD OFF-WHITE	MATCH 1-BAR	MATCH CEILING		DEFLECTION	BLADE SPACING
A	PERFORATED CEILING DIFFUSER	PA/PX SERIES	1200P SERIES		X	X				X							X					
B	RECTANGULAR CEILING DIFFUSER	TDC SERIES	S SERIES	X	X					X		X					X					
C	ROUND CEILING DIFFUSER	TMR	RS-2																		NOT USED	
D	SQUARE CEILING DIFFUSER	TMS	1400																		NOT USED	
E	CLEAN ROOM DIFFUSER	TLF	5000																		NOT USED	
F	LINEAR CEILING DIFFUSER	ML SERIES	1900 SERIES																		NOT USED	
G	LINEAR SILL DIFFUSER	CT SERIES	1500 SERIES																		NOT USED	
H	SUPPLY GRILLE	270 SERIES	-																		NOT USED	
J	SUPPLY OR RETURN GRILLE	1700 SERIES	5815																		NOT USED	
K	RETURN GRILLE	AEROBLADE SERIES	S80	X						X		X					X			45°	¾"	
L	GYM GRILLE	35SR-HD SERIES	S480																		NOT USED	
M	TRANSFER GRILLE	50-F	-																		NOT USED	
N	ROUND INDUST DIFFUSER	XC-310	-																		NOT USED	
P	SECURITY GRILLE	SG-SD	91310							X		X					X					

NOTES: DIFFUSER, REGISTER, AND GRILLE SCHEDULE

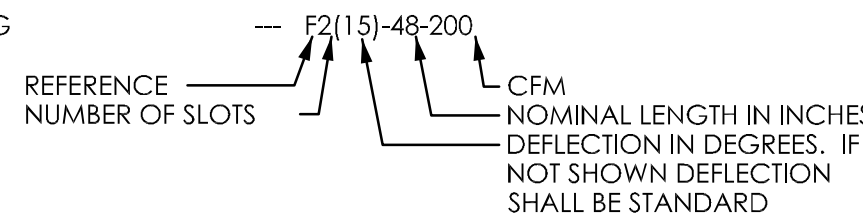
- MODEL NUMBERS ARE FOR GENERAL IDENTIFICATION. SPECIFIC MODEL NUMBERS DEPEND ON APPLICABLE NOTES AND ARCHITECTURAL PLANS. IN PARTICULAR, SPECIAL ATTENTION MUST BE GIVEN TO SIZING AND INSTALLATION OF LINEAR DIFFUSERS. VERIFY MOUNTING TYPE AND DIMENSIONS WITH ARCHITECTURAL WORK. REFER TO ARCHITECTURAL SPECIFICATIONS, REFLECTED CEILING PLANS AND ROOM FINISH SCHEDULE FOR DETAILS AFFECTING SELECTION AND INSTALLATION OF UNITS.
- CONTROL GRID REQUIRED FOR SUPPLY UNITS ONLY.
- ROUND TO SQUARE EQUIVALENTS:  
5" DIA = 6" x 6"  
6" DIA = 9" x 9"  
8" DIA = 12" x 12"  
10" DIA = 15" x 15"  
12" DIA = 15" x 15"  
14" DIA = 18" x 18"  
16" DIA = 18" x 18"
- DIFFUSERS AND GRILLES, EXCEPT SECURITY TYPES, SHALL HAVE REMOVABLE FACES TO ALLOW ACCESS FROM THE SPACE SERVED.

4. REFERENCE NOTES USED ON THE DRAWINGS:

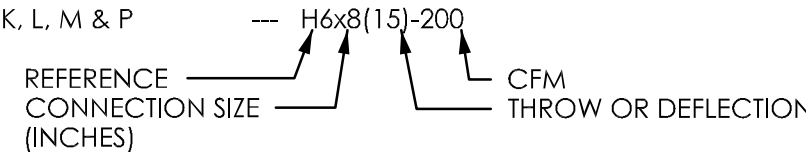
TYPES A, B, C, D, E, & N



TYPES F & G



TYPES H, J, K, L, M & P



AIR TERMINAL UNIT SCHEDULE															
UNIT NO.	CFM		Ø INLET SIZE	Ø UNIT MAX. SP AT MAX. CFM	SOUND REQUIREMENTS		HOT WATER HEATING COIL								CONTROL TYPE
	MAX.	MIN.			MAX. INLET DUCT SP	MAX. ROOM NC	ENT. AIR TEMP. °F.	LVG. AIR TEMP. °F.	ENT. WATER TEMP. °F.	GPM AT MIN MBH	MAX. WATER PD	CFM AT MIN. MBH	MIN. MBH	ROWS	
TU-0041-41	195	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-42	115	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-43	115	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-44	115	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-45	115	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-46	115	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-47	310	115	6	0.10	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-48	840	260	9	0.15	1"	NOTE 1	55.0	87.0	150	1.2	0.5	260	9.0	1	C
TU-0041-49	310	115	6	0.10	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-50	275	115	5	0.10	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-51	270	115	5	0.10	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C
TU-0041-52	170	115	4	0.05	1"	NOTE 1	55.0	87.0	150	0.4	0.5	115	4.0	1	C

- NOTES:
- REFER TO SPECIFICATIONS FOR NOISE LEVELS BASED ON ROOM TYPE.
  - INSTALLATION OF UNITS AND CONNECTION OF DUCTWORK AND PIPING TO BE PROVIDED BY MECHANICAL CONTRACTOR.
  - CONTROLS CONTRACTOR TO PROVIDE TRANSFORMERS FOR LOW VOLTAGE CONTROL POWER FOR TERMINAL UNITS. LOCATE TRANSFORMER PANELS IN MECHANICAL ROOM LL776, DIRECTLY ADJACENT TO EXISTING ECC (ENGINEERING CONTROL CENTER) SERVING THE TERMINAL UNITS. CONTROLS CONTRACTOR TO PROVIDE ALL WIRING FROM ECC AND TRANSFORMER PANEL TO TERMINAL UNITS. COORDINATE TRANSFORMER LOCATION AND 120V POWER SUPPLY WITH ELECTRICAL CONTRACTOR.
  - TERMINAL UNITS TO BE PROVIDED BY SIEMENS INDUSTRY, INC. - BUILDING TECHNOLOGIES.
  - TEMPERATURE CONTROLS TO BE PROVIDED BY SIEMENS BUILDING CONTROLS TO MATCH EXISTING.

AIR TERMINAL UNIT SOUND REQUIREMENTS						
①④ ROOM NC	MAXIMUM SOUND POWER LEVEL (Re: 10-12 WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT SP.					
	⑤⑥ OCTAVE BANDS					
	2	3	4	5	6	
25	57	50	43	39	36	
30	60	54	47	43	41	
35	65	58	52	48	46	
40	69	63	57	53	51	
45	72	66	61	58	56	

- PROVIDE DUCT TRANSITION AT UNIT WHERE INLET SIZE & DUCT RUNOUT SIZE ARE DIFFERENT.
- THE UNIT MAXIMUM SP IS THE PRESSURE DIFFERENCE BETWEEN THE UNIT INLET AND DISCHARGE INCLUDING REHEAT COIL AND SOUND ATTENUATOR. IT ALSO THE MINIMUM PRESSURE REQUIRED AT THE UNIT INLET TO OBTAIN THE RATED CFM.
- REFER TO AIR TERMINAL UNIT SOUND REQUIREMENT SCHEDULE FOR MAXIMUM SOUND POWER LEVEL VALUES PERMITTED WITH MAXIMUM INLET DUCT SP & ROOM NC SHOWN.
- REFER TO AIR TERMINAL UNIT SCHEDULE FOR NC VALUES ASSIGNED TO INDIVIDUAL UNITS.
- THE MAXIMUM SOUND POWER LEVELS LISTED ARE BASED ON A ROOM ATTENUATION OF 5dB AND ALLOWANCE FOR DISCHARGE DUCTWORK, EXCEPT UNITS SERVING AUDIO BOOTHS WHICH SHALL MEET VALUES LISTED FOR ROOM NC25.
- AN \* AHEAD OF THE MAX ROOM NC IN THE INDIVIDUAL UNIT SOUND REQUIREMENTS COLUMN INDICATES THAT A SOUND ATTENUATOR PACKAGE IS REQUIRED TO ACHIEVE THE SPECIFIED SOUND VALUE FOR THE PARTICULAR UNIT SIZE.

COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE																																								
SYSTEM			FAN DATA			COOLING DATA							REHEAT DATA			HUMIDIFIER		FILTER	ELECTRICAL DATA													GENERAL	REMARKS							
REF	AREA SERVED/ LOCATION	INTERLOCK	UNIT TYPE	CFM	EXT SP WG	MIN MOTOR HP	ENT AIR		SENS MBH	TOTAL MBH	EWI °F	TOTAL GPM	WATER PD FT	CAPACITY		NO. OF STAGES	CAPACITY		MERV	TOTAL UNIT FLA	MIN CIRC AMPS	MAX FUSE/RK SIZE (AMPS)	VOLTAGE /PHASE	FED FROM	CIRCUIT NO.	FEEDER PROTECTION DEVICE	FEEDER SIZE	LOCAL SAFETY DISCONNECT SWITCH				STARTER				DIMENSIONS L x W x H				
							DB °F	WB °F						MBH	NOM KW		#/HR	TYPE										SIZE	TYPE	ENCLOSURE TYPE	FURN. BY DIV	INST. BY DIV	CONN. BY DIV	SIZE	TYPE		ENCLOSURE TYPE	FURN. BY DIV	INST. BY DIV	CONN. BY DIV
AC-2045	IT EQUIP LL830	-	UP FLOW	4,400	0.2	2	72	60	29	38	85	30.5	11	34.1	10	3	11	INFRA- RED	8	31.8	38.9	40	460-3PH	LP-C14	13,15,17	40A CB	3#8 AND 1#10 GRND IN 3/4" CONDUIT	8 BY DIV 23	8 BY DIV 23	8 BY DIV 23	23	23	26	8 BY DIV 23	8 BY DIV 23	8 BY DIV 23	23	23	23	85" x35" x 76"

- NOTES:
- TEMPERATURE CONTROLS TO BE PROVIDED BY MANUFACTURER.
  - BUILDING CONTROLS CONTRACTOR TO PROVIDE MONITORING AND ALARM, INTEGRATED INTO EXISTING BUILDING MANAGEMENT SYSTEM.

ISSUE 006 - CD BID  
12.17.10  
ISSUE 005 - CD OWNER REVIEW  
11.12.10  
ISSUE 004 - DESIGN DEVELOPMENT RECORD  
09.08.10  
ISSUE 003 - DESIGN DEVELOPMENT REVIEW

01.20.11  
12.17.10  
11.12.10  
09.08.10

KEY PLAN

LOWER LEVEL PLAN

US DEPARTMENT OF VETERANS AFFAIRS  
JOHN D. DINGELL  
VA MEDICAL CENTER  
4646 JOHN R. STREET  
DETROIT, MI 48202

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Drawing Title  
MECHANICAL / ELECTRICAL SCHEDULES

Approved Project Director  
J. P. COLE

Project Title  
POLICE SERVICES RELOCATION

Location  
DETROIT, MICHIGAN

Date  
01-20-2011

Checked  
JPC

Drawn  
PME

Project Number  
553-11-108  
Building Number  
100

Drawing Number  
ME-600  
Dwg. 31 of 50

Office of Construction and Facilities Management

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VA FORM 08-6231