

PROJECT:

# HM 78 A-B

ARCHITECT OF RECORD:

S.M. BERGER ARCHITECTURE, P.C.

P.O. BOX 222113  
GREAT NECK, NEW YORK 11022 TEL.: 516. 773. 7365

EXECUTIVE ARCHITECT:

SLCE ARCHITECTS, LLP

1309 BROADWAY  
NEW YORK, NY 10018 TEL.: 212. 979. 8400

STRUCTURAL ENGINEER:

WSP CANTOR SENUK

228 EAST 45TH STREET  
NEW YORK, NY 10017 TEL.: 212. 687. 9888

M.E.P. ENGINEER:

WSP FLACK + KURTZ

512 SEVENTH AVENUE  
NEW YORK, NY 10018 TEL.: 212. 532. 9600

CODE CONSULTANT / EXPEDITING:

JEROME S. GILLMAN CONSULTING  
ARCHITECTS, P.C.

40 WORTH STREET  
NEW YORK, NY 10013  
ZONING CONSULTANT: TEL.: 212. 349. 9304

A. PROVIDE FORWARD CURVED DOUBLE WIDTH FAN WHEELS. CONSTRUCT THE WHEEL AND SCROLL OF GALVANIZED STEEL OR ALUMINUM. PLASTIC IS NOT ACCEPTABLE.

B. MOTORS TO BE 3-SPEED, ELECTRONICALLY COMMUTATED MOTOR TYPE DESIGNED FOR POSITIVE SPEED REDUCTION WITH INHERENT OVERLOAD PROTECTION AND MOUNTED ON A RESILIENT BASE. MOTOR CHARACTERISTICS 120V, SINGLE PHASE, 60 HZ.

### 2.3 COILS

A. CONSTRUCT WATER COILS OF 5/8" O.D. COPPER TUBES MECHANICALLY EXPANDED TO ALUMINUM FINS. PROVIDE COILS SUITABLE FOR MAXIMUM SYSTEM WORKING PRESSURE. FURNISH MANUAL AIR VENT.

### 2.4 CONTROLS

A. ALL VALVING INCLUDING CONTROL VALVE, ETC., TO BE LOCATED OVER AN INSULATED AUXILIARY DRAIN PAN WITHIN THE FAN COIL UNIT CASING. CONTROL VALVES (IF NOT PRODUCED BY CONTROLS CONTRACTOR TO BE MODULATING, 2-WAY MOTORIZED, ELECTRIC TYPE, N.C. FOR COOLING AND N.O. FOR HEATING. ALSO PROVIDE TWO (2) BALL VALVES, AUTOMATIC FLOW CONTROL VALVE AND TWO (2) PETE'S PLUGS PER COIL FOR ALL FAN COIL UNITS.

B. UNIT THERMOSTAT TO BE PROVIDED BY [EQUIPMENT MANUFACTURER] [AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SECTION 15975] [DIVISION 17]. FAN COIL UNITS TO ACCEPT A 24-VOLT SIGNAL TO INTERFACE WITH FAN SPEED AND TEMPERATURE CONTROLS.

C. PROVIDE MOTOR SPEED SWITCH MOUNTED AT THE FACTORY. THERMOSTAT TO CONTROL COOLING AUTOMATIC VALVE AND HEATING COIL IN SEQUENCE.

### 2.5 WIRING

A. ALL INTERNAL ELECTRIC WIRING BETWEEN FAN MOTOR, CONTROLS AND UNIT MOUNTED JUNCTION BOX TO BE DONE BY THE FAN COIL MANUFACTURER. PROVIDE THE NECESSARY QUICK DISCONNECTS FOR EASY REMOVAL OF FAN SECTION AND PROVIDE SUITABLE TERMINALS FOR FIELD CONNECTIONS OF POWER. UNIT JUNCTION BOX TO BE FACTORY MOUNTED WITH COVER PLATE SCREWS READILY ACCESSIBLE FOR SERVICE. PROVIDE AN UNFUSED DISCONNECT SWITCH MOUNTED TO THE UNIT ON THE SAME SIDE AS THE VALVING PACKAGE.

### 2.6 ACOUSTICAL SOUND DATA

LOCATION	SOUND POWER IN DB RE 10 <sup>-12</sup> W					SOUND POWER IN DB RE 10 <sup>-12</sup> W					
	PER 1/1 OCT BAND (HZ)					PER 1/1 OCT BAND (HZ)					
	DUCTED DISCHARGE Lw - AHRI260					FREE INLET + CASING					
UNITS IN RESIDENTIAL BATHROOMS	74	69	65	65	65	65	61	60	56	56	55
ALL OTHER IN UNITS	70	65	65	65	65	61	57	55	51	51	50
	(FOR ALL UNITS)					(FOR UNITS WITHOUT RETURN DUCTING)					

LOCATION	SOUND POWER IN DB RE 10 <sup>-12</sup> W					SOUND POWER IN DB RE 10 <sup>-12</sup> W						
	PER 1/1 OCT BAND (HZ)					PER 1/1 OCT BAND (HZ)						
	DUCTED INLET Lw - AHRI260					CASING RADIATED Lw - AHRI260						
UNITS IN RESIDENTIAL BATHROOMS	73	71	76	79	77	71	65	61	60	56	56	55
ALL OTHER IN UNITS	69	67	71	65	65	65	61	57	55	51	51	50
	(FOR UNITS WITH RETURN DUCTING)					(FOR UNITS WITH RETURN DUCTING)						

### 2.7 ACCEPTABLE MANUFACTURERS

- A. CARRIER
- B. YORK
- C. TRANE
- D. INTERNATIONAL

### PART 3 - EXECUTION

3.1 NOT USED.

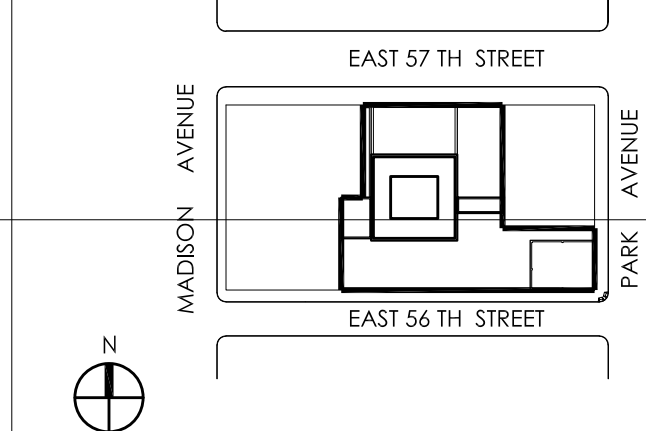
END OF SECTION

08/09/2017 ISSUED FOR DOB

No:    Dots:    Revision:

SCALE: NTS

KEY PLAN:



DRAWING TITLE:  
**MECHANICAL SPECIFICATION  
SHEET 3**

SEAL & SIGNATURE:	DATE:
	PROJECT No:
	DRAWN BY: DD
	CHECKED BY: DD
	DRAWING No:
	<b>M-004.00</b>
	CADD FILE No:
	M-004