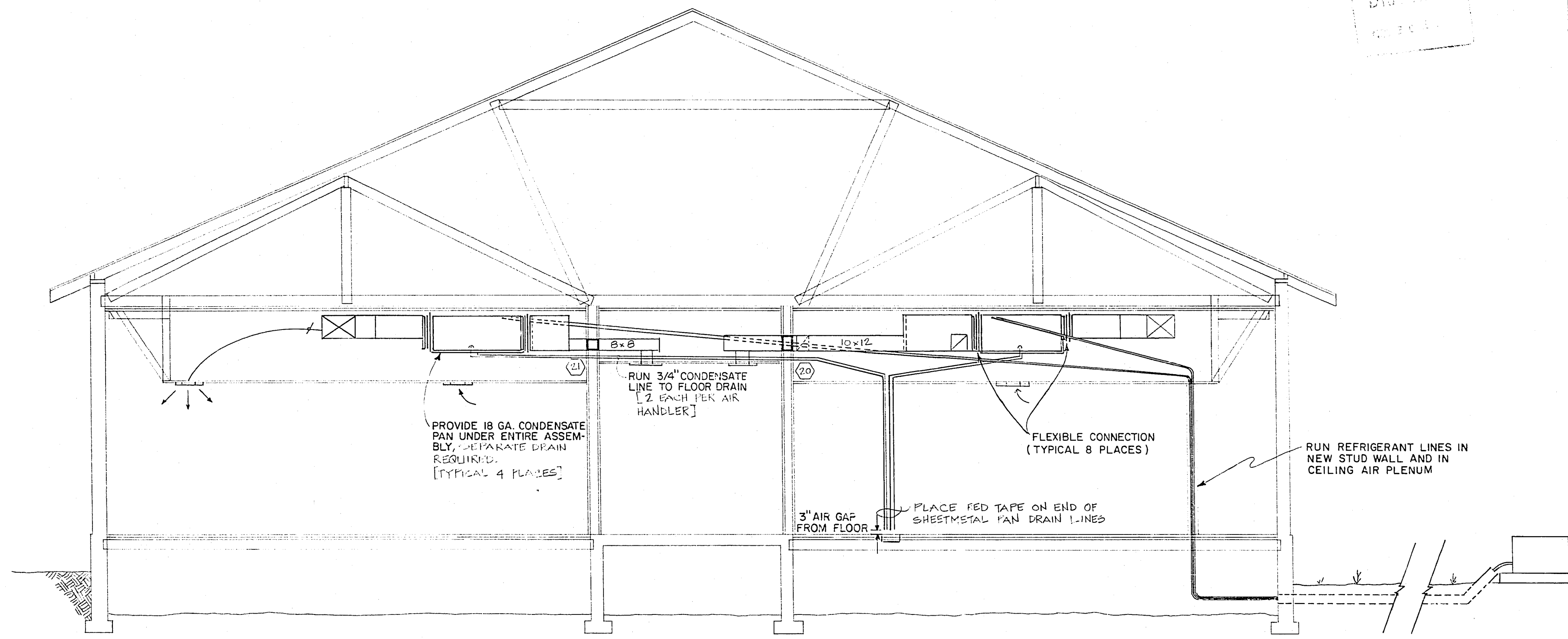
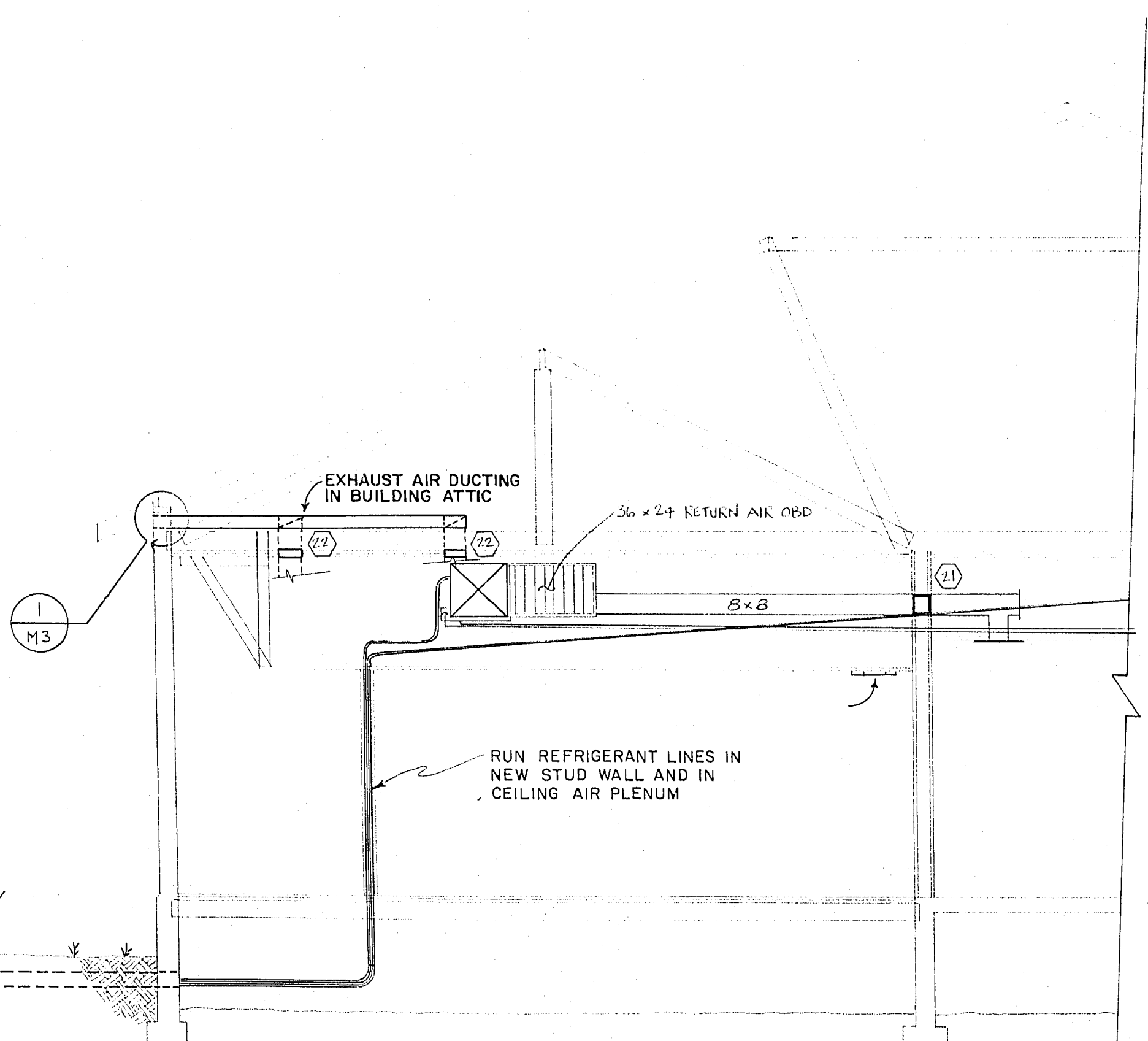


CONTINUED
DRAWING



SECTION A - A



SECTION B - B

GENERAL NOTES

- All Ductwork shall be fabricated and installed per "SMACNA" low velocity duct construction manual. All duct sizes shown are net clear inside dimensions.
- Ductwork to be fabricated from galvanized sheet metal. Install Certain-teed Ultraliner 1-inch-thick liner in all ductwork except exhaust air ducting.
- Field verify dimensions of all purchased equipment prior to fabrication of mating parts.
- Flash and seal around ductwork at all wall and ceiling penetrations.
- All ductwork to be supported by structural members. Minimize cutting of structural members. Notify Field Engineer for structural check prior to cutting of structural members.
- Balance all air flows to values shown. Provide two (2) copies of air balance report for approval before final inspection.
- Flexible duct connections shall be fabricated from "Ventfab" as manufactured by Vent Fabrics, Inc., Chicago, ILL., or approved equal.
- Install double thickness turning vanes in all rectangular elbows. If curved elbows are used, they shall have a centerline radius equal to 1-1/2 times the width of the duct.
- Volume control dampers shall be of 16 gauge galvanized metal sized to the round duct dimension as manufactured by Air Balance, Inc., Model MDR or approved equal.
- Color of diffusers, registers, grilles and louvers to match adjoining panels. Color to be approved by Owner before painting.

NOTE: CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING GAS FURNACES.

SERIAL #S FOR CONDENSING UNITS:	SERIAL #S FOR FAN COIL UNITS:
2610M23828715	HM39823940
2610F02830168	HM09834323
1869M27820438	HM39823943
1869M11823384	HM09834322

ADVANCE MECHANICAL, INC.
2280 CRESTLINE LOOP
N. LAS VEGAS NEVADA
89030

AS BUILT

ITEM N ^o	QUANTITY	DESCRIPTION	VENDOR OR APPROVED EQUAL
①	2	SPLIT-SYSTEM HEAT PUMP UNIT INDOOR UNIT (HORIZONTAL INSTALLATION): 60,000 BTUH (NOMINAL) COOLING CAPACITY, 2000 CFM (NOMINAL) AT 1.4" EEP, CHECK-FLO-RATER METERING DEVICE, R-22 REFRIGERANT, 3/8" LIQUID TUBE CONNECTION, 3/4" VAPOR TUBE CONNECTION, 3/4" NPT CONDENSATE DRAIN CONNECTIONS 15 KW SUPPLEMENTAL HEATER, 208 VOLT, 1PH. OUTDOOR SECTION: 7.0 EER. COOLING EFFICIENCY, 2.6 C.O.P. HEATING EFFICIENCY AT +7°F, HERMETICALLY SEALED COMPRESSOR, SUCTION-TUBE ACCUMULATOR, LOW-PRESSURE SWITCH, CRANK-CASE HEATER, AND RELIEF VALVE FOR HIGH-PRESSURE PROTECTION, TOTALLY ENCLOSED FAN COIL MOTOR, EXTERNAL SERVICE VALVES, HEAT-SAVING REVERSING VALVE, TIME/TEMPERATURE DEFROST CONTROL, 208 VOLT, 3 PH. UNIT FURNISHED WITH MANUAL CHANGEOVER ROOM THERMOSTAT, OUTDOOR THERMOSTAT, AND REFRIGERANT LINE: 3/8" O.D. LIQUID LINE, 1-3/8" O.D. VAPOR LINE WITH 1/2" THICK INSULATION WITH R-VALUE OF 2.0, 2-WAY FILTER-DRIER/LIQUID TUBE AND MOUNTING BRACE	DAY AND NIGHT 5454000 519 A 030 MCC 520 B 030 BF P/N 3014387-422 34427 DP TR 53123 T03 50159-701 301592-702 RUUD JPCA 057 UHQA 20
②	2	SPLIT-SYSTEM HEAT PUMP UNIT, EQUAL TO ITEM 1 EXCEPT 1/2" O.D. LIQUID LINE, 1-3/8" O.D. VAPOR LINE	SAME AS ABOVE
③	16	12 x 12, 4 WAY PERFORATED CEILING DIFFUSER WITH OPPOSED BLADE DAMPER, STEEL CONSTRUCTION FOR TEE BAR CEILING INSTALLATION	ENVIRONMENTAL AIR PRODUCT MODEL 104 WITH OBD ANEMOSTAT PM30
④	10	EQUAL TO ITEM 3 EXCEPT 10 x 10	E.A.P. MODEL 104 WITH OBD SAME AS ABOVE
⑤	4	20 x 20 PERFORATED RETURN AIR GRILLE WITH OPPOSED BLADE DAMPER, STEEL CONSTRUCTION, FOR TEE BAR CEILING INSTALLATION	E.A.P. MODEL 190 WITH OBD ANEMOSTAT 3PROD
⑥	2	EQUAL TO ITEM ⑤ EXCEPT 16 x 16	E.A.P. MODEL 190 WITH OBD
⑦	2	EQUAL TO ITEM ⑤ EXCEPT 18 x 18	E.A.P. MODEL 190 WITH OBD
⑧	7	EQUAL TO ITEM ⑤ EXCEPT 10 x 10	E.A.P. MODEL 190 WITH OBD
⑨	2	EQUAL TO ITEM ⑤ EXCEPT 12 x 12	E.A.P. MODEL 190 WITH OBD ANEMOSTAT 3PROD
⑩	2	10 x 5 DOUBLE DEFLECTION SUPPLY REGISTER WITH OPPOSED BLADE DAMPER, EXTRUDED ALUMINUM CONSTRUCTION WITH LACQUERED FINISH	E.A.P. DDV-OB ANEMOSTAT 52VO
⑪	1	EQUAL TO ITEM ⑩ EXCEPT 4 x 6	E.A.P. DDV-OB ANEMOSTAT 52VO
⑫	1	12 x 12, 3 WAY PERFORATED CEILING DIFFUSER WITH OPPOSED BLADE DAMPER, STEEL CONSTRUCTION, FOR TEE BAR CEILING INSTALLATION	E.A.P. MODEL 103 WITH OBD ANEMOSTAT PM30
⑬	2	8 x 8 4 WAY CEILING DIFFUSER WITH ADJUSTABLE CURVED BLADES AND OPPOSED BLADE DAMPER, ALUMINUM CONSTRUCTION WITH LACQUERED FINISH	E.A.P. MODEL CB-4 WITH OBD ANEMOSTAT 104
⑭	1	SIDEWALL DIRECT DRIVE PROPELLER FAN, IN ATTIC 1/6 HP, 115 VOLT, 2,519 CFM @ 1/8" S.P.	GREENHECK SP-24-3-10 POWERLINE 24DX7C
⑮	1	LINE VOLTAGE THERMOSTAT, 70° TO 140° RANGE, SET POINT 110°F, MOUNT ON SOUTH HALL IN ATTIC.	HONEYWELL T631
⑯	2	CEILING EXHAUST FAN, 155 CFM AT 1/8" S.P., PHOSPHATIZED STEEL CONSTRUCTION WITH BAKED ENAMEL FINISH, INTERIOR HOUSING LINED WITH 1/2" THICK ACOUSTIC INSULATION, FORWARD CURVED CENTRIFUGAL FAN WHEEL WITH BACKRAFT DAMPER AT THROAT OF DISCHARGE, 1/5 HP, 115 V.	GREENHECK SP-17 LOREN COOK 5-10
⑰	1	EQUAL TO ITEM ⑯, EXCEPT 90 CFM AT 1/8" S.P., 1/125 HP, 115 V.	GREENHECK SP-8 LOREN COOK 4-15
⑱	1	10 x 10 CLEAR OPENING, 1 1/2 HOUR RATED FIRE DAMPERS, GALVANIZED STEEL FRAME, 165°F REPLACEABLE FLEXIBLE LINK, U.L. LISTED, VERTICAL MOUNT	AIR BALANCE INC. MODEL 119 AL PREFCO 5500 E4 W/BC FRAME
⑲	2	EQUAL TO ITEM ⑱, EXCEPT 8 x 6 CLEAR OPENING	AIR BALANCE INC. MODEL 119 AL
⑳	2	EQUAL TO ITEM ⑱, EXCEPT 12 x 10 CLEAR OPENING	AIR BALANCE INC. MODEL 119 AL
㉑	2	EQUAL TO ITEM ⑱, EXCEPT 8 x 8 CLEAR OPENING	AIR BALANCE INC. MODEL 119 AL
㉒	3	EQUAL TO ITEM ⑱, EXCEPT 10 x 4 CLEAR OPENING, HORIZONTAL MOUNT	AIR BALANCE INC. MODEL 119 AL

W.A. 2041
Scale (v) Date 9-30-80
Scale (h) Filed. no. N/A
Design by BERT ANZAI
Drawn by NORMA GOMEZ

Engineering Design Division

Department of Public Services

HVAC SECTIONS AND EQUIPMENT LIST

WEST SIDE SCHOOL RENOVATION

City of Las Vegas
Clark County

Drawing no. 513-53
M-2/57

Revisions

Date