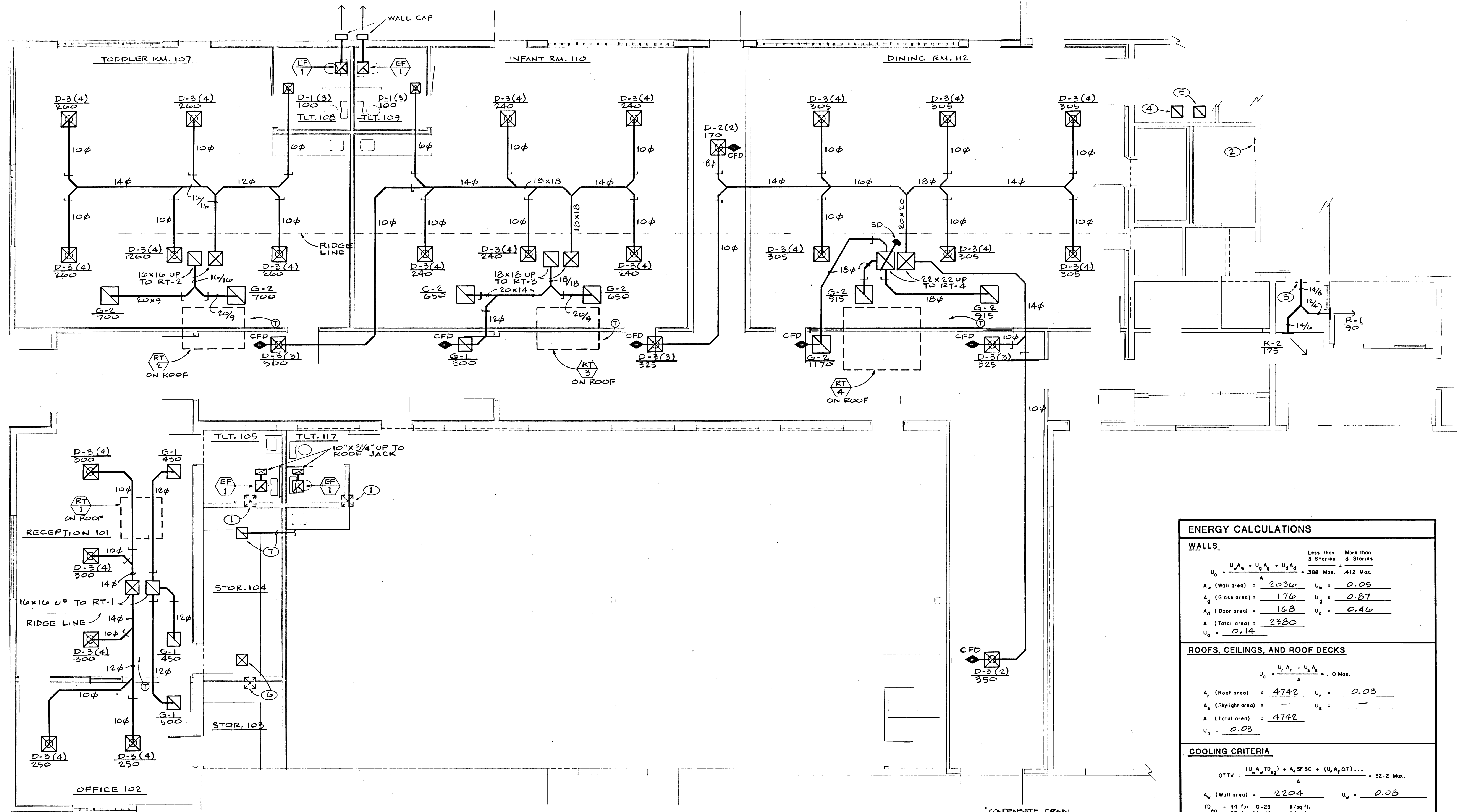


SHEET NOTES

- 1 REMOVE EXIST. CEILING MOUNTED AIR DIFFUSER, CAP SUPPLY DUCT ABOVE CEILING.
- 2 REMOVE EXIST. WALL MOUNTED REGISTER, CAP SUPPLY DUCT ABOVE CORRIDOR CEILING.
- 3 REMOVE EXIST. WALL MOUNTED REGISTER, EXTEND SUPPLY DUCT AS SHOWN.
- 4 NEW 14"x14" COMBUSTION AIR DUCT FROM 12" ABOVE FLOOR TO 24" ABOVE ROOF. TERMINATE ABOVE ROOF WITH GOOSENECK WITH GALVANIZED 1/4" MESH SCREEN. VERIFY EXACT LOCATION.
- 5 NEW 14"x14" COMBUSTION AIR DUCT FROM 12" BELOW ROOF TO 24" ABOVE ROOF. TERMINATE ABOVE ROOF WITH GOOSENECK WITH GALVANIZED 1/4" MESH SCREEN. VERIFY EXACT LOCATION.
- 6 RELOCATE EXIST. AIR DIFFUSER TO SERVE RM. 104; EXTEND DUCT AS NECESSARY.
- 7 PROVIDE NEW RETURN (G-1) EXTEND NEW DUCT TO EXIST. RA MAIN, VERIFY EXACT LOCATION.

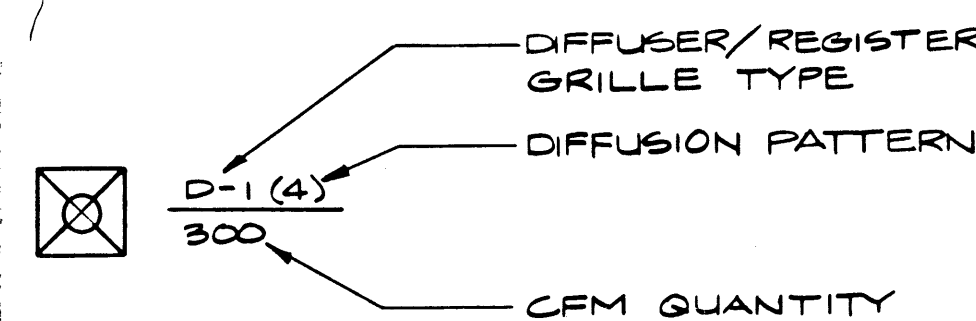
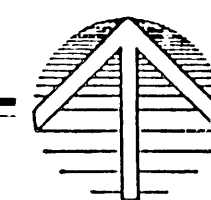
GENERAL NOTES

1. HVAC CONTR. SHALL VERIFY EXACT PLACEMENT LOCATION OF ROOFTOP UNITS & ASSOCIATED PENETRATIONS WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
2. SEE ARCHITECTURAL DOCUMENTS FOR DESCRIPTION OF BOUNDARIES OF NEW EXISTING CONSTRUCTION.
3. SEE ARCHITECTURAL DOCUMENTS FOR DESCRIPTION OF ALTERNATES.
4. COORDINATE LOCATION OF AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN & ELECTRICAL LIGHTING PLAN PRIOR TO CONSTRUCTION.



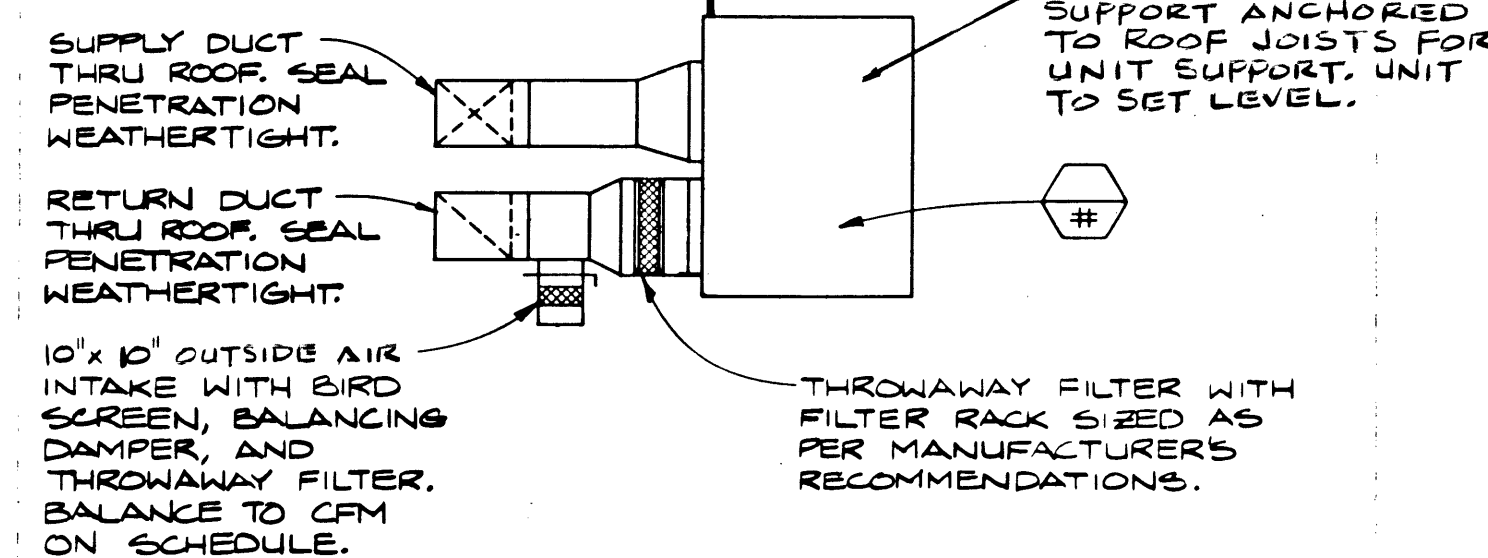
HVAC FLOOR PLAN

SCALE: 1/4"=1'-0"



AIR DEVICE CALLOUT TAG

NO SCALE



ROOF TOP UNIT DETAIL

NO SCALE

ENERGY CALCULATIONS

WALLS		Less than 3 Stories	More than 3 Stories
$U_o = \frac{U_w A_w + U_g A_g + U_d A_d}{A}$		$\leq .388 \text{ Max.}$	$\leq .412 \text{ Max.}$
A_w (Wall area) =	2036	$U_w =$	0.05
A_g (Glass area) =	176	$U_g =$	0.87
A_d (Door area) =	168	$U_d =$	0.46
A (Total area) =	2380		
$U_o =$	0.14		

ROOFS, CEILINGS, AND ROOF DECKS

$U_o = \frac{U_r A_r + U_g A_g}{A} = .10 \text{ Max.}$			
A_r (Roof area)	=	<u>4742</u>	$U_r =$ <u>0.03</u>
A_g (Skylight area)	=	<u>—</u>	$U_g =$ <u>—</u>
A (Total area)	=	<u>4742</u>	
$U_o =$		<u>0.03</u>	

COOLING CRITERIA

$OTTV = \frac{(U_o A_o T_o) + A_g SF SC + (U_g A_g \Delta T) \dots}{A}$		$= 32$
A_o (Wall area) =	<u>2204</u>	$U_o =$ <u>0</u>
T_o	$= 44$ for 0-25 37 for 26-40 30 for 41-70 23 for 71+ above	$U_g =$ <u>0.87</u>
A_g (Fenestration area) =	<u>176</u>	$U_f =$ <u>0</u>
SF (Solar Factor)	<u>124.5</u>	
SC (Shading Coef)	<u>0.85</u>	
ΔT (Exterior - Interior) =	<u>106° - 75° = 31°</u>	
$OTTV =$	<u>12.04</u>	

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MECHANICAL/ELECTRICAL CONSULTANTS
2785 East Desert Inn Road, Suite 200
Las Vegas, Nevada 89121
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400 EAST STEWART AVENUE
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HVAC FLOOR PLAN, DETAILS AND CALCULATIONS

drawn by: RPD
issue dates:
11/9/88
11/22/88 bidding

revisions:
2/1/89 2nd. bidding

job no.:

M.3

28

As Built

671-25

ARCHITECT • GERALD GARADICH & ASSOCIATES A.I.A.
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2000 PASEO DEL PRADO, C-108, LAS VEGAS, NV 89102 (702) 357-4445

PHASE I (VARIETY CLUB)
"D" STREET / JEFFERSON AVENUE
NEIGHBORHOOD FACILITY PROJECT

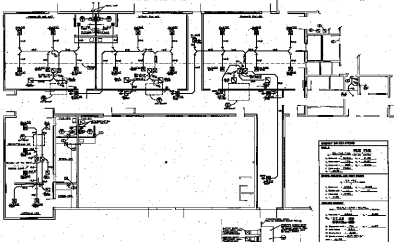
27-176

KEY NOTES

- 1. SEE THE ARCHITECT'S SPECIFICATIONS FOR THE MATERIALS AND METHODS OF CONSTRUCTION.
- 2. SEE THE ARCHITECT'S SPECIFICATIONS FOR THE MATERIALS AND METHODS OF CONSTRUCTION.
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GENERAL NOTES

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FRONT FLOOR PLAN



DOOR TO HALL DETAIL

DOOR SCHEDULE	
NO.	DESCRIPTION
1	DOOR TO HALL
2	DOOR TO HALL
3	DOOR TO HALL
4	DOOR TO HALL
5	DOOR TO HALL
6	DOOR TO HALL
7	DOOR TO HALL
8	DOOR TO HALL
9	DOOR TO HALL
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48	DOOR TO HALL
49	DOOR TO HALL
50	DOOR TO HALL