



GENERAL SEISMIC NOTES:

1. SEE SPECIFICATIONS FOR PIPING AND DUCT BRACING REQUIREMENTS.
2. THE ROOF CONSTRUCTION CONSIST OF A INSULATED METAL DECK WITH STEEL BEAMS AND JOIST SYSTEM. THE SECOND FLOOR CONSTRUCTION CONSIST OF CONCRETE TOPPING ON A METAL DECK WITH STEEL BEAMS AND JOIST. ALL ATTACHMENTS TO THE ROOF OR FLOOR CONSTRUCTION SHALL BE MADE AT METAL DECK, BEAMS, OR JOIST.
3. THE HANGERS, ATTACHMENTS AND SEISMIC RESTRAINTS INDICATED ON SHEETS M7-4 , M7-5, M7-6 AND M7-7 ARE SHOWN TO INDICATE THE GENERAL DESIGN METHOD ONLY AND MAY NOT SHOW ALL ITEMS THAT REQUIRE SEISMIC RESTRAINT OR PROTECTION. THE CONTRACTOR SHALL SUBMIT ALL SEISMIC RESTRAINT SHOP DRAWINGS PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER. THESE DRAWINGS AND CALCULATIONS SHALL SHOW ALL SIZES, SNUBBERS, ATTACHMENTS, BOLT SIZES, AND PLANS THAT SHOW ALL PIPE, CONDUIT, DUCT, AND EQUIPMENT SEISMIC RESTRAINTS THAT ARE REQUIRED IN THIS CONTRACT. A STATEMENT SHALL BE PROVIDED WITH THE SHOP DRAWINGS (THAT IS SIGNED AND STAMPED BY THE ENGINEER) STATING THAT ALL SEISMIC RESTRAINTS THAT ARE FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL MEET THE MINIMUM SEISMIC REQUIREMENTS AND CODES OF THE LOCALITY AND THE STATE OF CALIFORNIA.
4. SEE SHEET M7-6 FOR ISOLATOR LEGEND AND DESCRIPTION.

VIBRATION ISOLATION & SEISMIC RESTRAINT SCHEDULE				
DESCRIPTION	TYPE BASE SEE DETAILS THIS SHEET	TYPE ISOLATOR	MIN. STATIC DEFL. mm	NOTES
WATER HEATER (FLOOR MOUNTED)	C	-	-	1,4,7,8
AIR COMPRESSOR (FLOOR MOUNTED)	A	SX	25	1,3,4,5
ORAL EXCAVATION TURBINES (FLOOR MT'D)	A	SX	25	1,3,4,5
ORAL EVACUATION RECEIVER (FLOOR MT'D)	C	-	-	1,4,7,8
WATER SOFTENER TANKS	C	-	-	1,4,7,8
AIR HANDLING UNITS (FLOOR MOUNTED)	B	PN	6	1,2,4,6
A/C UNITS (SUSPENDED)	-	HS	25	1,4,10
ACCU (FLOOR OR PAD MOUNTED)	C	-	-	1,4,7
ACCU (ROOF MOUNTED)	ROOF CURB	SX	25	1,4,7
TERMINAL UNITS (SUSPENDED)	-	HN	25	1,4,10
IN LINE FANS (SUSPENDED)	-	HS	25	1,4,10
WATER CHILLER (FLOOR MOUNTED)	B	PN	6	1,4,6
BOILER (FLOOR MOUNTED)	B	PN	6	1,4,6
PUMPS (FLOOR MOUNTED)	-	SX	25	1,2,3,13
AIR SEPARATOR (SUSPENDED)	-	HS	25	1,2,10
EXPANSION TANKS (FLOOR MOUNTED)	C	-	-	1,4,7,8
PIPE AND CONDUIT (SUSPENDED)	-	HS	25	1,2,4,11
DUCT (SUSPENDED)	-	HN	25	1,2,4,12
TRANSFORMERS (FLOOR MOUNTED)	B	PN	6	1,4,6
COMMUNICATION RACKS (FLOOR MOUNTED)	C	-	-	1,4,7
MOTOR CONTROL PANELS (FLOOR MOUNTED)	C	-	-	1,4,7
SWITCHBOARDS (FLOOR MOUNTED)	C	-	-	1,4,7

- NOTES:**
1. SEE SPECIFICATION SECTION 15070 FOR SEISMIC RESTRAINTS.
 2. INSTALL TYPE HS IN THE FIRST 15 m FROM PUMPS AND AT LAST HANGER BEFORE COILS. USE RIGID (NON ISOLATION TYPE HANGER) AT ALL OTHER PIPE HANGER LOCATIONS.
 3. SEISMIC RESTRAINT INTEGRAL WITH ISOLATOR.
 4. PROVIDE FLEXIBLE CONNECTION AT CONNECTION TO EQUIPMENT.
 5. TYPE A FRAME IS A RECTANGULAR STEEL, VIBRATION ISOLATION, INERTIA BASE. THE FRAME SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION. HEIGHT SAVING BRACKETS SHALL BE EMPLOYED IN ALL MOUNTING LOCATIONS TO MAINTAIN THE MINIMUM STATIC DEFLECTION INDICATED ABOVE FOR CLEARANCE BELOW THE BASE. SEE DETAIL 23 FOR BASE TYPE "A".
 6. SEE DETAIL 20 FOR BASE TYPE "B".
 7. SEE DETAIL 20a FOR BASE TYPE "C".
 8. SEE DETAIL 31 FOR VERTICAL FLOOR MOUNTED TANK.
 9. D E L E T E D.
 10. SEE DETAIL 25 FOR SUSPENDED EQUIPMENT SUPPORT.
 11. SEE DETAIL 26 AND 27 FOR SUSPENDED PIPE AND CONDUIT SUPPORT.
 12. SEE DETAIL 28 FOR SUSPENDED DUCT SUPPORT.
 13. SEE DETAIL 29 FOR PUMP SUPPORT.

IF SHEET IS LESS THAN 28"x42", IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY.

M7-4

MEDICAL/DENTAL CLINIC

HVAC
DETAILS

SIZE	CODE IDENT. NO.	DRAWING NO.
F	XXXXX	8144746
CONST. CONTR. NO.		
SCALE: AS SHOWN	SPEC. 11996048	SHEET 241 OF 316