



GENERAL NOTES:

1. ANCHORAGE TO CONCRETE WALL OR SOLID BRICK, USE HILTI KWIK BOLT II EXPANSION ANCHORS 3/8" Ø (MIN.)
2. ANCHORAGE TO HOLLOW CONCRETE BLOCK, USE HILTI TOGGLE BOLT (CARBON STEEL) 1/2" Ø (MIN.)
3. ANCHORAGE TO METAL STUDS AND GYP. BOARD WALLS, USE CARBON STEEL THROUGH BOLT, 3/8" Ø (MIN.)
4. PROVIDE CARBON STRUCTURAL STEEL ANGLES, BARS & SHEETS PER ASTM A36.
5. WELD PER AWS D1.1, STRUCTURAL STEEL.

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

HVAC DUCT SECURITY BARS DETAIL
SCALE: NONE

NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM MECHANICAL POC.
2. SECURITY BARS ARE REQUIRED WHEN DUCT IS GREATER THAN 96 SQ. INCHES AND MORE THAN 6 INCHES IN ITS SMALLEST DIMENSION.
3. IT IS PREFERRED TO LOCATE ACCESS DOOR IN SECURED AREA. PROVIDE ACCESS DOOR WITH LOCK HASP WHEN DOOR IS LOCATED IN NON SECURED AREA.

1	9-16-04	U		GENERAL REVISION:	RP	KM	MIN	CD	TO	
NO	DATE	CLASS	REV	ADD	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP
ENGINEERING STANDARDS PROGRAM										
ENGINEERING STANDARDS MANUAL										DRAWN R.PEARSON
HVAC DUCT SECURITY BARS DETAIL										DESIGN DETAIL
BLDG X										DATE 3-10-04
SUBMITTED										APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH
DISCIPLINE POC: CHARLES DUPRE										SHEET 1
										1 OF 2
CLASSIFICATION: U										REVIEWER: LARRY BAYS
PROJECT ID										DATE:
CHAPTER 6										REV 1
ST-D3040-6										

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