

three eighths inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot

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100% CONSTRUCTION DOCUMENTS

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Drawing Title	PHASE 1 AND PHASE 2 LEAD SHIELDING PLAN
Approved Project Director	

Project Title	CT SCANNER PREP VA NORTHERN CALIFORNIA HEALTHCARE SYSTEM	Project Number	612-14-037
Location	MARTINEZ, CA	Building Number	19
Date	04/28/2015	Drawn	NV
Checked	NV	Drawn	NV
Dwg	A4.3	of	42

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

PROJECT LEAD SHIELDING REQUIREMENTS

NO DEVIATION ALLOWED

PHASE 1 LEAD SHIELDING REQUIREMENTS ROOM C-156

EAST SCANNER ROOM (ADJACENT TO HOT LAB)  
SYMBIA T2  
ROOM C156  
DECK - ASSUMED TO BE AT LEAST 2.5 INCH THICK NORMAL DENSITY REINFORCED CONCRETE. IT DOES NOT REQUIRE MODIFICATION FOR THE PURPOSE OF X-RAY SHIELDING. HOWEVER, DURING CONSTRUCTION, THE DECK MUST BE INSPECTED TO VERIFY THE MINIMUM CONCRETE THICKNESS AND TO CERTIFY IT TO BE FREE OF VOIDS AND LARGE CRACKS.

ALL PERIMETER WALLS AND STRUCTURES IN THE WALLS, WINDOWS, FRAMES, AND DOORS REQUIRE SHIELDING. THE SPECIFICATION FOR ALL STRUCTURES IS NOMINAL 4 POUND PER SQUARE FOOT (1/16 INCH THICK) LEAD SHIELDING APPLIED FROM THE LEVEL OF THE FINISHED FLOOR TO A HEIGHT OF SEVEN FEET ABOVE THE FINISHED FLOOR.  
NOTE THAT THE LEADING OF THE SOUTH WALL CONTINUES INTO THE CONTROL ROOM (C157) AND IS CONTINUOUS WITH THE LEADING OF THE SOUTH WALL OF ROOM C158.

CONTROL ROOM WALL FOR C156 (PHASE 1):  
THIS INTERIOR WALL REQUIRES NOMINAL 4 POUND PER SQUARE FOOT (1/16 INCH THICK) LEAD SHIELDING APPLIED FROM THE LEVEL OF THE FINISHED FLOOR TO A HEIGHT OF SEVEN FEET ABOVE THE FINISHED FLOOR.  
ALL OTHER STRUCTURES DEFINING THIS BARRIER (WINDOWS, DOORS, AND FRAMES) REQUIRE THE SAME LEAD EQUIVALENCY.

PHASE 2 LEAD SHIELDING REQUIREMENTS ROOM C-158

WEST SCANNER ROOM (ADJACENT TO DEXA)  
SYMBIA T6  
ROOM 158  
DECK - ASSUMED TO BE AT LEAST 2.5 INCH THICK NORMAL DENSITY REINFORCED CONCRETE. PART OF THE CEILING REQUIRES AN ADDITIONAL LAYER OF 2 POUND PER SQUARE FOOT (NOMINAL 1/32 INCH THICK) LEAD APPLIED AT THE LEVEL OF THE DROP CEILING. THE LEAD WILL BEGIN AT THE INTERSECTION LINE OF THE WEST WALL WITH THE CEILING AND CONTINUE FOR 15 FEET IN THE DIRECTION OF THE OPERATOR'S CONTROL AREA. IT WILL BE THE FULL WIDTH OF THE ROOM IN THIS AREA. ALSO, DURING CONSTRUCTION, THE DECK MUST BE INSPECTED TO VERIFY THE MINIMUM CONCRETE THICKNESS AND TO CERTIFY IT TO BE FREE OF VOIDS AND LARGE CRACKS.

ALL PERIMETER WALLS (EXCEPT CONTROL WALL) AND STRUCTURES IN THE WALLS, WINDOWS, FRAMES, AND DOORS REQUIRE SHIELDING. THE SPECIFICATION IS NOMINAL 4 POUND PER SQUARE FOOT (1/16 INCH THICK) LEAD SHIELDING APPLIED FROM THE LEVEL OF THE FINISHED FLOOR TO A HEIGHT OF SEVEN FEET ABOVE THE FINISHED FLOOR FOR ALL AREAS. EXCEPT AN 8 FOOT WIDE SECTION CENTERED IN THE WEST WALL THAT REQUIRES 8 POUND PER SQUARE FOOT LEAD (1/8 INCH THICK).

CONTROL ROOM WALL FOR C158 (PHASE 2):  
THIS INTERIOR WALL REQUIRES NOMINAL 4 POUND PER SQUARE FOOT (1/16 INCH THICK) LEAD SHIELDING APPLIED FROM THE LEVEL OF THE FINISHED FLOOR TO THE HEIGHT OF THE DROP CEILING.  
ALL OTHER STRUCTURES DEFINING THIS BARRIER (WINDOWS, DOORS, AND FRAMES) REQUIRE THE SAME LEAD EQUIVALENCY.

PHASE 1 & 2

CONTROL ROOM  
ROOM C157  
CONTROL ROOM WALL FOR C158 (PHASE 2):  
THIS INTERIOR WALL REQUIRES NOMINAL 4 POUND PER SQUARE FOOT (1/16 INCH THICK) LEAD SHIELDING APPLIED FROM THE LEVEL OF THE FINISHED FLOOR TO THE HEIGHT OF THE DROP CEILING.  
ALL OTHER STRUCTURES DEFINING THIS BARRIER (WINDOWS, DOORS, AND FRAMES) REQUIRE THE SAME LEAD EQUIVALENCY.  
SOUTH WALL REQUIRES NOMINAL 4 POUND PER SQUARE FOOT (1/16 INCH THICK) LEAD SHIELDING APPLIED FROM THE LEVEL OF THE FINISHED FLOOR TO HEIGHT OF 7 FEET.

NOTE:  
NEW LEADLINED WALL TO +7'-0" A.F.F. (U.O.N.) SHOWN THUS  
CONTRACTOR TO PROVIDE 5/8" THICK 4# PER SQ. FT. (s/s), TYPE 'X' GYPSUM BOARD AT ALL WALL LOCATIONS, EXCEPT AS NOTED ABOVE