

DRAWINGS: TOTAL TWO. REQUIRED. C. INDIVIDUALLY GROUND EACH SHEET METAL SIDING FOR WALLS AND  $\Rightarrow$ ENDS - TOTAL FOUR WASHERS PER WIRE. OUTLINE OF FAN ENCL (TYP-OF 2) SEE MECH DWGS MATCH FRAME COLOR. -ALUMINUM BUS (TYP) WEST ELEVATION 1/8":1'-0"

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UNI	ING	WORK	

FOR THE PURPOSE OF REDUCING RF INDUCED VOLTAGES IN THE EQUIPMENT INSTALLED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING GROUNDING WORK AS LISTED BELOW AND AS INDICATED ON THE

1. GROUND ALL EXTERIOR FAN ENCLOSURES ON UPPER LEVEL HELIX ROOM -

A. GROUND BASE PLATE TO EXISTING ALUMINUM BUS USING 1" X 1/8" X 12" COPPER STRAP. USE EXOTHERMIC WELDING AT BOTH ENDS. B. GROUND ALL DOORS TO STEEL STRUCTURE USING 1" X 1/8" X LENGTH TO SUIT TINNED COPPER BRAID. USE EXOTHERMIC WELDING ON STEEL STRUCTURE END AND APPROPRIATELY SIZED STAINLESS STEEL SCREW ON DOOR; PROVIDE STAINLESS STEEL WASHER WITH SCREW. COPPER BRAID GROUNDING STRAP SHALL BE APPROPRIATELY TERMINATED AT BOTH ENDS FOR THE TYPE OF CONNECTION

ROOF TO STEEL STRUCTURE USING #6, SOFT DRAWN, BARE COPPER WITH APPROPRIATELY SIZED, RING TYPE, CRIMP-ON, TERMINAL CONNECTOR BOTH ENDS; REMOVE INSULATION AND SECURE CRIMP-ON CONNECTION WITH SILVER SOLDER. USE 1/8" X LENGTH TO SUIT STAINLESS STEEL BOLTS BOTH ENDS. PROVIDE STAINLESS STEEL WASHERS, TWO EACH BOTH ENDS; TOTAL FOUR PER WIRE. D. GROUND FAN FRAME & SLEEVE TO STEEL STRUCTURE USING #6, SOFT DRAWN, BARE COPPER CONDUCTOR WITH APPROPRIATELY SIZED, RING TYPE, CRIMP-ON CONNECTORS BOTH ENDS; REMOVE INSULATION AND SECURE CRIMP-ON CONNECTION WITH SILVER SOLDER. USE 1/8" X LENGTH TO SUIT STAINLESS STEEL BOLTS BOTH ENDS. PROVIDE STAINLESS STEEL WASHER, TWO EACH BOTH

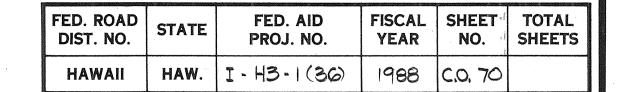
2. GROUND ALL EXTERIOR FILTER FRAMES ON THIRD FLOOR - TOTAL TWO.

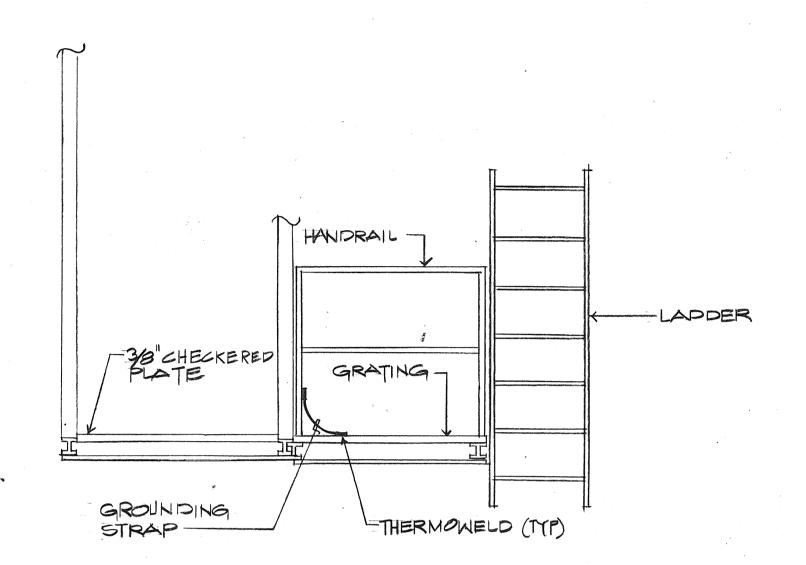
A. GROUND FILTER ASSEMBLY FRAME & SHELL TO EXISTING ALUMINUM BUS USING 1" X 1/8" X LENGTH TO SUIT COPPER STRAP; EXOTHERMIC WELD BOTH

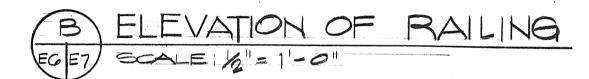
B. INDIVIDUALLY GROUND EACH PART OF THE FRAME TO EACH OTHER USING # 6 SOFT DRAWN BARE COPPER WITH APPROPRIATELY SIZED, RING TYPE, CRIMP-ON, TERMINAL CONNECTOR BOTH ENDS. PROVIDE STAINLESS STEEL WASHERS, TWO EACH BOTH ENDS; TOTAL FOUR PER WIRE. IF IT WILL HOLD, SILVER SOLDERING COPPER WIRE DIRECTLY TO FRAME SECTIONS IN LIEU OF BOLTING IS ACCEPTABLE; PRIME AND PAINT (TWO COATS) SOLDERED AREA TO

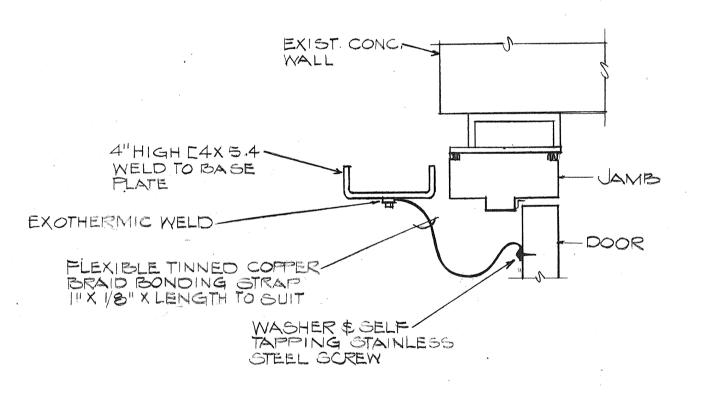
3. TEST EACH STRUCTURE GROUNDING TO EARTH GROUND.

A. TEST GROUNDING FROM VARIOUS POINTS OF STRUCTURE OR FRAME TO THE ALUMINUM BUS. RESISTANCE SHALL BE LESS THAN 3 OHMS FROM EACH POINT TO THE ALUMINUM BUS; OTHERWISE, PROVIDE ADDITIONAL BONDING. B. TEST FROM STRUCTURE BASE PLATE OR FRAME TO GROUND RODS AT BASE OF TRANSMITTER BUILDING. RESISTANCE SHALL BE LESS THAN FIVE OHMS. C. PROVIDE REPORT OF TESTING OF EACH AND ALL NEW EXTERIOR STRUCTURES AND FRAMES (4 EACH).





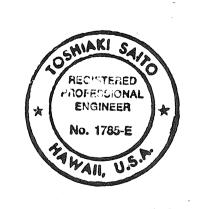






## METHOD OF BONDING STEEL DOOR TO FRAME

NOT TO SCALE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

> WEST ELEVATION DETAILS, NOTES

HAIKU ACCESS ROAD

INTERSTATE ROUTE H-3 F.A.I. PROJECT HO.1 - H3 - 1 (3G) SCALE: AS NOTED

E-7 SHEET NO. |4 OF |4 SHEETS