

SECTION A-A

(@ Post #2)

PARTIAL VIEW OF POST 1

(Typical @ Post 3 - 7)

NOTE: RAIL NOT BOLTED @ POST #3

FED. AID **FISCAL** FED. ROAD SHEET TOTAL STATE DIST. NO. PROJ. NO. YEAR NO.

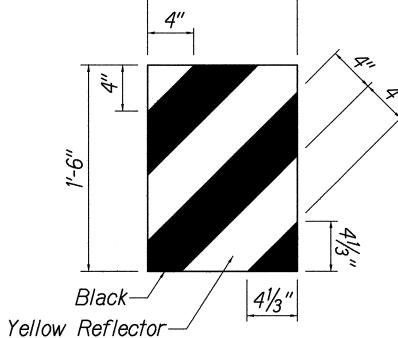
2001 HAW. ER-12(2) HAWAII 116 BILL OF MATERIALS IMPACT HEAD

ITEM NO. QTY F3000 F1303 W-BEAM GUARDRAIL END SECTION, 12 GA. F1304 W-BEAM GUARDRAIL CENTER SECTION, 12 GA. G1203 W-BEAM GUARDRAIL, 12 GA. \$730 *FOUNDATION SOIL TUBE, 6" x 8" x 72" E750 BEARING PLATE *S*760 CABLE ANCHOR BOX E770 BCT CABLE ANCHOR ASSEMBLY E780 GROUND STRUT PB620 STEEL BREAKAWAY END POST PB621 STEEL BREAKAWAY LINE POST RECYCLED PLASTIC BLOCKOUT OR OFFSET BLOCK IMPACT HEAD REFLECTOR MARKER-IHRM (R) or (L. HARDWARE 5/8" Dia. x 11/4" SPLICE BOLT, POST #2 B580122 B580754 5%" Dia. x 7½" HEX BOLT B341004 'a" Dia. x 10" HEX BOLT B581002 %" Dia. x 10" H.G.R. BOLT (POST 3 THRU 7) (SPLICE 24, SOIL TUBES 2, POST 2 THRU 7, 6) N050 5/8" Dia. H.G.R. NUT N030 3/4" Dia. HEX NUT W050 H.G.R. WASHER W030 3/4" ID WASHER 1" ANCHOR CABLE HEX NUT N100 W100 1" ANCHOR CABLE WASHER 1/4" x 4" HEX BOLT B140404 1/4" HEX NUT N014 4 1/4" WASHER SB58A CABLE ANCHOR BOX SHOULDER BOLT 1/2" A325 STRUCTURAL NUT N055A 11/16" OD x 9/16" ID A325 STR. WASHER W050A

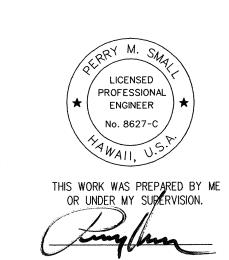
Foundation Tube Options For Posts 1 \$ 2

*6'-0" Split Foundation Tubes S730 *6'-0" Solid Foundation Tubes E731 *5'-0" Foundation Tubes S735 W/Soil Plates SP600

*4'-6" Foundation Tubes E735 W/Soil Plates SP600



IMPACT HEAD REFLECTOR MARKER INSERT DETAIL



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION *FLEAT-350* FLARED ENERGY ABSORBING TERMINAL

MAMALAHOA HIGHWAY, EMERGENCY

REPLACEMENT OF KAALAALA STREAM BRIDGE FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII

SHEET No. BC22 OF 28 SHEETS

Date: FEBRUARY 20, 2001 Scale: As Shown