Bob Riley
GOVERNOR

ALABAMA
DEPARTMENT OF TRANSPORTATION
MAINTENANCE BUREAU
1409 COLISEUM BOULEVARD
MONTGOMERY, ALABAMA 36130-3050

PHONE (334) 242-6272 *FAX (334) 242-6378*

Joe McInnes
TRANSPORTATION DIRECTOR

June 26, 2009

Specification on Packaged Units of Type III Barricades

Special Instructions: The vendor whose bid is awarded will package all components used in the Type III Barricade together as a single unit. Each unit should contain three boards with sheeting applied, feet and uprights, and necessary hardware for mounting. Boards will be slip sheeted to prevent reflective sheeting being damaged. Finished unit of issue will be banded together for shipment and labeled as to whether it is a right or left barricade.

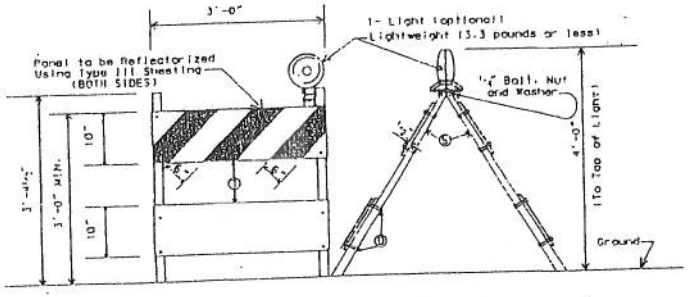
Items not packaged in this manner will not be received and will be the responsibility of the vendor for transportation costs incurred and/or returned.

Ship To: Ala. Dept. of Trans. Sign Shop
Shop Foreman
523 Traffic Operations Drive
Montgomery, Al. 36110

Bill To: Same as "Ship To"

FHWA REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TO
4	AL				

TYPE I

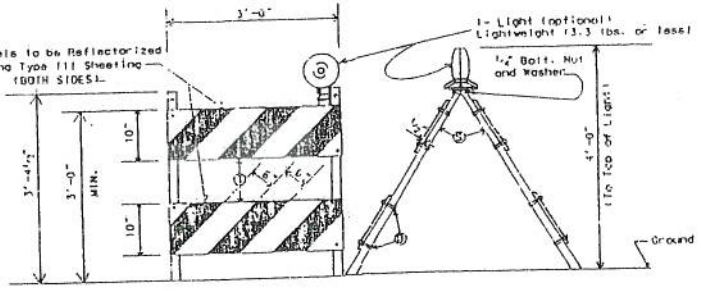


FRONT VIEW SIDE VIEW

⑤ 4 EACH 4'-0" LONG, 12 Ga. STEEL ANGLE, 1 1/4" x 1 1/4", "A-FRAME" DESIGN

① 4 EACH 3'-0" LONG, 10" WIDE, 1/2" PLYWOOD OR 1/2" WAFFLEBOARD

TYPE II



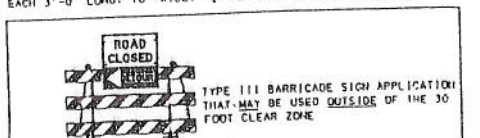
FRONT VIEW SIDE VIEW

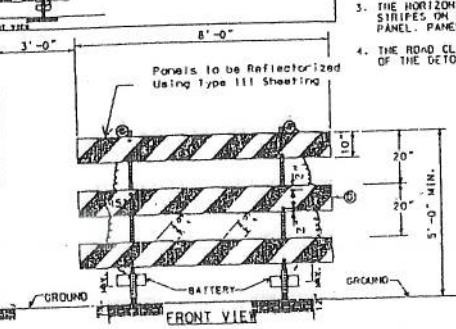
⑤ 4 EACH 4'-0" LONG, 12 Ga. STEEL ANGLE, 1 1/4" x 1 1/4", "A-FRAME" DESIGN

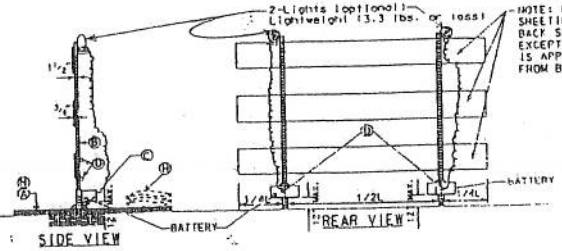
① 4 EACH 3'-0" LONG, 10" WIDE, 1/2" PLYWOOD OR 1/2" WAFFLEBOARD

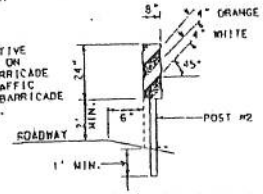
GENERAL NOTES

1. STRIPES SHALL MAKE AN ANGLE OF 45° WITH THE VERTICAL SLANTING DOWNWARD TOWARD THE SIDE WHICH TRAFFIC IS TO PASS. AT LOCATIONS WHERE THE BARRICADE EXTENDS ENTIRELY ACROSS A ROADWAY, STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING. IF BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR, THE STRIPES SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER, WHERE NO TURNS ARE INTENDED. THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES.
2. SEE THE M.U.T.C.D., PART 6, MILLENNIUM EDITION FOR ERECTION LOCATIONS AND OTHER PERTINENT DATA.
3. THE HORIZONTAL PANELS ARE DESIGNED TO BE STRIPED IDENTICALLY AND SPACED AS NOTED, SO THE DIAGONAL STRIPES ON EACH PANEL ARE LINED UP TO REFLECT A CONTINUOUS STRIPE FROM THE TOP PANEL TO THE BOTTOM PANEL. PANELS WILL BE INTERCHANGEABLE.
4. THE ROAD CLOSED AND DETOUR SIGNS SHALL BE PLACED ON THE SIDE OF THE BARRICADE NEAREST THE DIRECTION OF THE DETOUR.

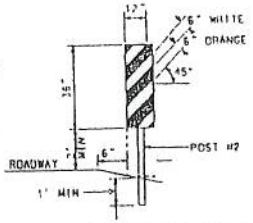








TYPE I VERTICAL PANEL

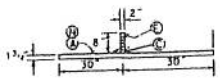


TYPE II VERTICAL PANEL

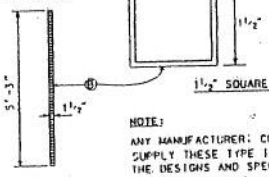
1. IN SITUATIONS WHERE A PORTABLE DEVICE IS DESIRABLE, PANEL SHALL BE MOUNTED ON #2 POST.
2. THIS PANEL MAY BE UTILIZED (AT NO ADDITIONAL COST) AS AN ALTERNATE TO THE TYPE I BARRICADE ONLY WHEN SPACE IS LIMITED.
3. PANEL SHALL BE REFLECTORIZED USING TYPE III REFLECTORIZED SHEETING.
4. THE VERTICAL PANEL SHALL BE PAID FOR AS (SINGLE SIDED) OR (DOUBLE SIDED) PER EACH.
5. WHEN CONDITIONS WARRANT THE PANEL MAY BE MOUNTED FLUSH RIGHT OR FLUSH LEFT ON THE POST TO AVOID ENCROACHING THE TRAVELWAY.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

Ⓐ 2 EACH OF 5'-0" LONG 1 1/2" x 1 1/2", 10 GA. ANGLE BASES ALL STEEL TO BE HIGH-CARBON, HOT ROLLED STEEL.
Ⓑ 2 EACH UPRIGHT 5'-3" TALL UPRIGHT: 1 1/2" x 1 1/2", 10 GA., ALL STEEL TO BE HIGH-CARBON, HOT ROLLED STEEL.
Ⓒ WELD: 1/4" FILLET WELD-AFTER WELDING COMPLETE AREA SHALL BE RE-GALVANIZED IN ACCORDANCE WITH MIL-T-21035 GALVANIZING REPAIR SPECS.
Ⓓ 2 1/4" x 3/8" STD. STRENGTH. STEEL BOLTS WITH NUTS AND LOCK WASHERS.
Ⓔ 2 EACH OF WELDED 8" LONG x 2" SQUARE TUBE INTO WHICH THE 5'-3" TALL 1 1/2" x 1 1/2", 10 Ga. UPRIGHTS ARE INSERTED.
Ⓕ LIGHTS: TYPE A, B, OR C LIGHTS, LIGHTWEIGHT (OPTIONAL). (3.3 POUNDS OR LESS)
Ⓖ PANELS: 10" x 8'-0" x 3/4" ACX PLYWOOD, FRONT SIDE SHALL BE STRIPED WITH ALTERNATING ORANGE AND WHITE STRIPES SLOPING 45° TO VERTICAL.
Ⓗ SAND BAGS OR SPIKES MAY BE USED FOR ADDED STABILITY.
Ⓘ LENGTH OF PANELS SHALL BE 8'-0" MAXIMUM.
Ⓙ BASE AND UPRIGHT MAY BE PERFORATED OR NON-PERFORATED.



BASE
SECTION-A



UPRIGHT
SECTION-B

TYPE III

NOTE:

ANY MANUFACTURER, CONTRACTOR, SUBCONTRACTOR, VENDOR OR STATE FORCES MAY BUILD AND/OR SUPPLY THESE TYPE I, TYPE II AND TYPE III BARRICADES AND CERTIFY THAT THEY CONFORM TO THE DESIGNS AND SPECIFICATIONS OF THIS DRAWING.

OTHER DESIGNS MEETING THE PANEL WIDTH AND LENGTH AND BARRICADE HEIGHT DIMENSIONS SHOWN ON THIS DRAWING MAY BE SUPPLIED PROVIDED THEY HAVE BEEN SUCCESSFULLY CRASH TESTED IN ACCORDANCE WITH NCHRP REPORT 350 REQUIREMENTS FOR THE BARRICADE AND ANY LIGHT OR SIGN COMBINATION.

N.T.S.

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS
1. Changed Note No. 4 and Millennium Edition on 11-25-02 AF.T.

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

PERFORATED SQUARE STEEL TUBING(PSST) BARRICADE TYPE I, TYPE II, TYPE III
VERTICAL PANELS TYPE I AND TYPE II

DRAWN BY: Joe F. Thomas
DATE DRAWN: 04-24-01

SPECIAL DRAWING NO. B-107-2

PAGE 90