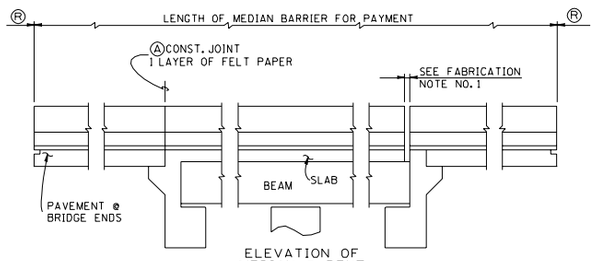
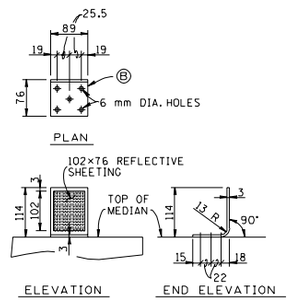
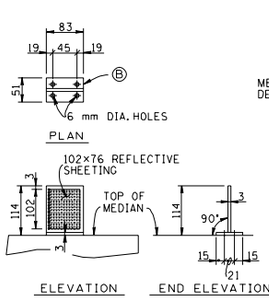
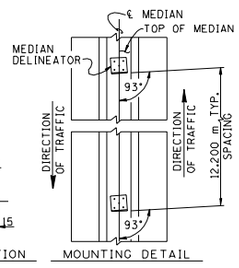
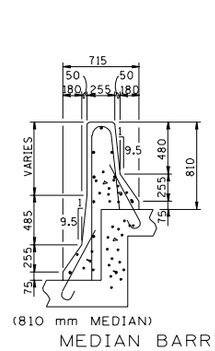
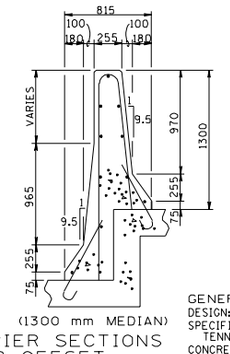












PARAPET DELINEATOR

Ⓐ Ⓑ MEDIAN BARRIER DELINEATORS SHALL BE HIGH IMPACT, UV-STABILIZED, ENGINEERED THERMOPLASTIC OR POLYCARBONATE SUBSTRATE. SEE TDOT APPROVED QUALIFIED PRODUCT LISTS FOR ACCEPTABLE PRODUCTS.

MEDIAN BARRIER SECTIONS AT SLAB OFFSET

PROJECT NO.	YEAR	SHEET NO.
	1996	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
M/A 1	6-10-96	BRB	NEW METRIC STANDARD
M/A 2	4-28-97	CMH	REVISED BARS B1371E ℄ ADDED LENGTH
M/A 3	5-21-99	CMH	REVISED NOTE Ⓐ, Ⓑ, DELINEATORS ℄ ADDED V-GROOVE NOTE #5
M/A 4	7-31-00	CMH	REVISED NOTE Ⓐ, #5, PLAN VIEW ℄ DELETED JOINT ℄ BENT

GENERAL NOTES:

DESIGN: AASHTO SPECIFICATIONS CURRENT EDITION WITH ADDENDA.

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (CURRENT EDITION).

CONCRETE: TO BE CLASS 'A' f'c = 21 MPa SEE SPECIAL PROVISION REGARDING SECTION 604 - CONCRETE STURCTURES.

REINFORCING STEEL: TO BE ASTM A615M GRADE 400. SPACING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED. THE SUFFIX 'E' FOR BARS SO MARKED, DENOTES EPOXY COATED REINFORCEMENT. SEE SPECIAL PROVISION 907A.

Ⓐ NOTE: CONTRACTOR MAY POUR THE MEDIAN BARRIER WITHOUT FELT PAPER PROVIDED HE FORMS A 13 mm DEEP V-GROOVE ALONG BOTH FACES AND TOP OF MEDIAN BARRIER DURING CASTING OF CONCRETE OR SOON AFTER SLIP-FORMING.

Ⓑ MEDIAN BARRIER DELINEATOR REFLECTIVE SHEETING SHALL MEET ASTM D4956, TYPE V SPECIFICATIONS. THE REFLECTIVE SHEETING SHALL BE A MINIMUM OF 102×76 AND HAVE MINIMUM COVEREGE AREA OF 7740 SQUARE MILLIMETERS THE COLOR OF THE DELINEATORS SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. MEDIAN BARRIER DELINEATORS WILL NOT BE REQUIRED IN AREAS WHERE ROADWAY IS LIGHTED.

Ⓒ THE COST OF FURNISHING AND INSTALLING MEDIAN BARRIER DELINEATORS, INCLUDING ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION, SHALL BE INCLUDED IN BID PRICE FOR CONCRETE MEDIAN BARRIER.

Ⓓ MEDIAN BARRIER DELINEATORS SHALL BE MOUNTED TO THE CONCRETE MEDIAN BARRIER WITH A ONE COMPONENT ADHESIVE AS RECOMMENDED BY THE MANUFACTURER. THEY SHALL BE INSTALLED NO EARLIER THAN THREE WEEKS AFTER THE TEXTURE COATING HAS BEEN APPLIED.

FABRICATION NOTES:

1. OPEN JOINTS OR FILLED JOINTS WILL BE ALLOWED IN MEDIAN ONLY WHEN SHOWN ON PROJECT DRAWINGS. JOINTS SHALL CONFORM TO THE JOINT DETAILS ON THIS SHEET OR AS OTHERWISE SHOWN ON PROJECT DRAWINGS.
2. MEDIAN BARRIER CONCRETE SHALL NOT BE CAST PRIOR TO REMOVAL OF ALL SUPERSTRUCTURE RELATED FALSEWORK.
3. ALIGNMENT AND PROFILE OF MEDIAN BARRIER SHALL CONFORM TO ROADWAY PROFILE AND GEOMETRY.
4. IF THE BARRIER IS SLIP-FORMED, ROUNDED EDGES WITH A 20 mm RADIUS MAY BE USED INSTEAD OF THE 20 mm CHAMFER AS SHOWN.
5. Ⓐ Ⓑ A 13 mm DEEP V-GROOVE ALONG BOTH FACES AND TOP OF MEDIAN BARRIER SHALL BE FORMED DURING CASTING OF CONCRETE OR SOON AFTER SLIP-FORMING ø 3050 mm CENTER-TO-CENTER.

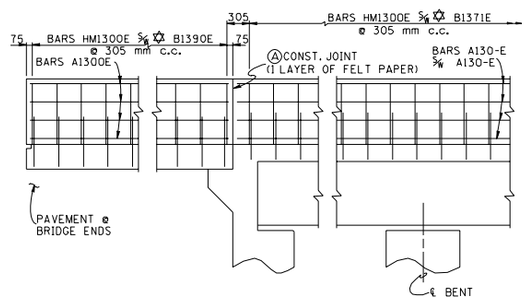
REINFORCING NOTES:

1. BAR DIMENSIONS ARE OUT TO OUT. FIRST DIGIT INDICATES SIZE.
2. THESE BARS SHALL BE FULL LENGTH OF MEDIAN BARRIER EXCEPT THAT NO BAR WILL PASS THROUGH OPEN JOINTS.
3. BASED ON NO OVERLAY ON THE BRIDGE. TO BE INCREASED AS REQUIRED FOR ASPHALT OVERLAY.

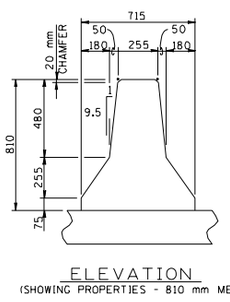
Ⓐ ✡ BARS B1371E TO BE INCLUDED IN EPOXY COATED REINFORCING QUANTITIES AND BILL OF STEEL FOR SUPERSTRUCTURE.

✡ BARS B1390E TO BE INCLUDED IN EPOXY COATED REINFORCING QUANTITIES AND BILL OF STEEL FOR PAVEMENT AT BRIDGE ENDS.

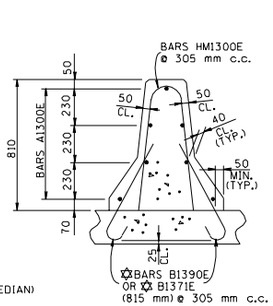
NOTE: BARS LISTED IN ABOVE NOTES ARE NOT INCLUDED IN PER METER QUANTITIES SHOWN THIS SHEET.



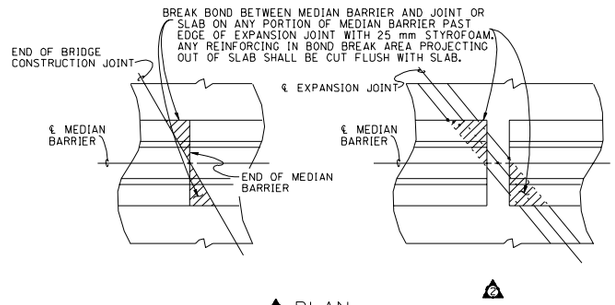
Ⓐ Ⓑ ELEVATION SHOWING REINFORCING STEEL
(810 mm MEDIAN)



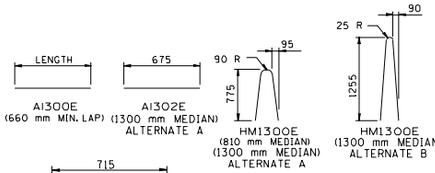
ELEVATION
(SHOWING PROPERTIES - 810 mm MEDIAN)



Ⓐ SECTION
(SHOWING REINFORCING - 810 mm MEDIAN)

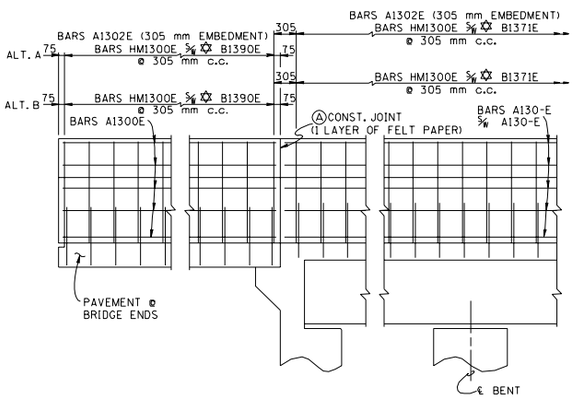


Ⓐ PLAN
(SHOWING DETAIL ✡ OPEN JOINT)

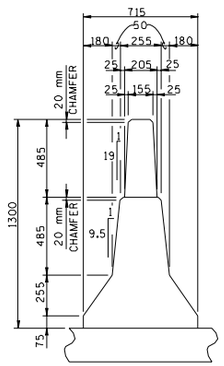


ESTIMATED QUANTITIES - PER METER

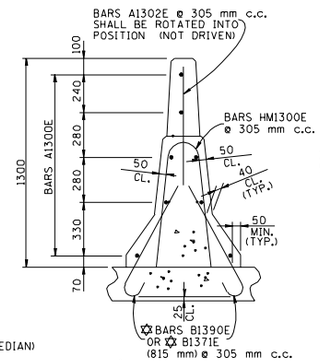
ITEM	CLASS 'A' CONCRETE (BRIDGES) m^3	EPOXY COATED REINFORCING STEEL kg	TEXTURE COATED FINISH (NEW STRUCTURE) m^2
810 mm MEDIAN	0.336	12	1.9748
1300 mm MEDIAN ALT 'A'	0.421	15	2.8924
1300 mm MEDIAN ALT 'B'	0.434	18	2.8562



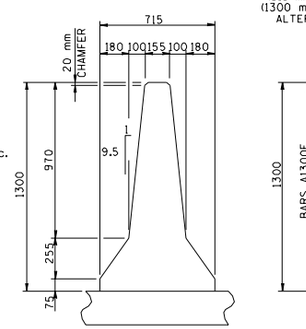
Ⓐ Ⓑ ELEVATION SHOWING REINFORCING STEEL
(1300 mm MEDIAN)



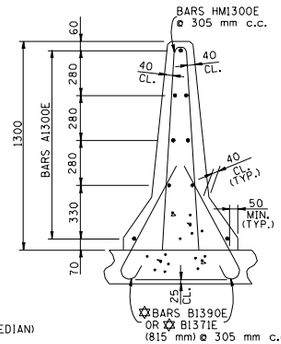
ELEVATION
(SHOWING PROPERTIES - 1300 mm MEDIAN)
(ALTERNATE 'A')



Ⓐ SECTION
(SHOWING REINFORCING - 1300 mm MEDIAN)
(ALTERNATE 'A')



ELEVATION
(SHOWING PROPERTIES - 1300 mm MEDIAN)
(ALTERNATE 'B')



Ⓐ SECTION
(SHOWING REINFORCING - 1300 mm MEDIAN)
(ALTERNATE 'B')

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

M/A MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD CONCRETE MEDIAN BARRIER 1996

DESIGNED BY C.M. HILES DATE
DRAWN BY KIM FRANKENFIELD DATE 1-93
SUPERVISED BY C.M. HILES DATE 1-93
CHECKED BY DATE

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

DIVISION OF METRIC ENGINEERING

SHEET 3 OF 13
STDM-1-3