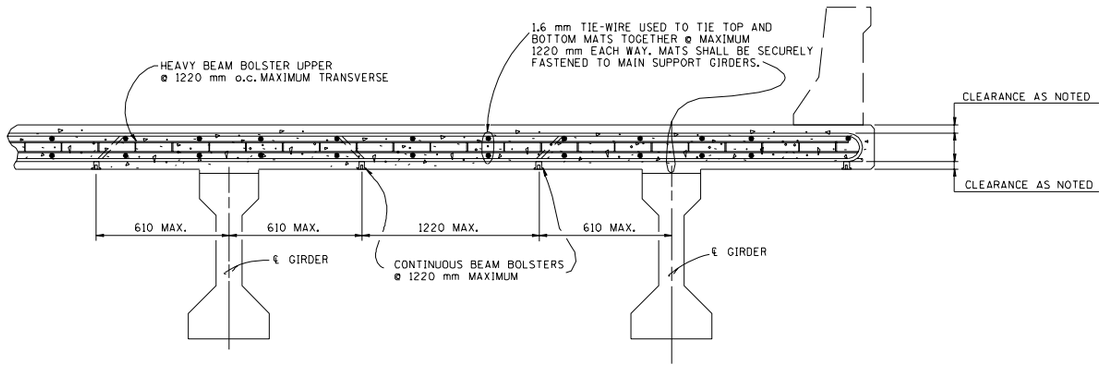
PROJECT NO.	YEAR	SHEET NO.
	1996	

REVISIONS

	NO.	DATE	BY	BRIEF DESCRIPTION
M/R	1	6-10-96	BRB	NEW METRIC STANDARD



TYPICAL DETAILS FOR GIRDER TYPE BRIDGES

TABLE A

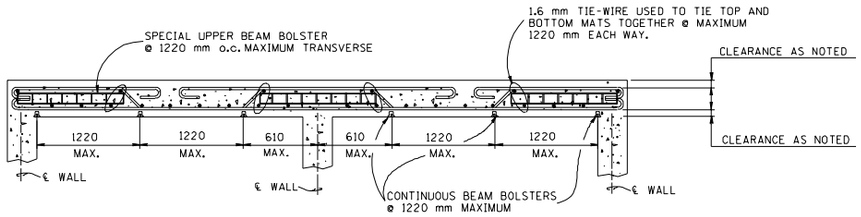
BAR SIZE	APPROX. DIA. OUTSIDE DEFORMATIONS (mm)
#10	11
#13	14
#16	17
#19	22
#22	25

TABLE B

BAR SIZE	APPROX. DIA. OUTSIDE DEFORMATIONS (mm)
#25	29
#29	32
#32	37
#36	41
#43	48
#57	64

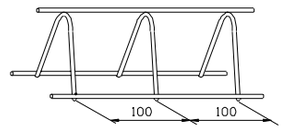
HEAVY BEAM BOLSTER UPPER (HBBU)

1. REINFORCEMENT IN BRIDGE SLABS AND TOP SLABS OF BOXES SHALL BE SECURELY SPACED FROM THE FORMS BY METAL SPACERS AS INDICATED THIS SHEET. OTHER TYPE SPACERS WILL NOT BE PERMITTED.
2. ALL BEAM BOLSTERS (BB) AND HEAVY BEAM BOLSTER UPPER (HBBU) AND SPECIAL UPPER BEAM BOLSTER SHALL BE MADE ACCORDING TO C.R.S.I. SPECIFICATIONS.
*3. BEAM BOLSTER (BB) LEGS IN CONTACT WITH FORMS AND TO BE AT EXPOSED SURFACE OF CONCRETE, SHALL BE EITHER "PLASTIC PROTECTED" OR "STAINLESS STEEL PROTECTED".
4. REINFORCING BARS SHALL BE SECURELY FASTENED TOGETHER AT EACH INTERSECTION USING A MINIMUM 1.6 mm TIE WIRE, EXCEPT WHERE SPACING IS LESS THAN 305 mm IN EACH DIRECTION, ALTERNATE INTERSECTIONS SHALL BE FASTENED.
5. REINFORCING BAR SUPPORTS SHALL BE FURNISHED TO MINUS 2 mm OR PLUS 3 mm OF SPECIFIED BAR.
6. THE TOP AND BOTTOM REINFORCING MATS SHALL BE TIED TOGETHER AT MAXIMUM OF 1220 mm O.C. EACH WAY.
7. WHEN ANY TYPE SHEAR CONNECTOR PROTRUDES FROM THE TOP FLANGE OF THE BEAM, THE REINFORCING STEEL SHALL BE TIED TO THESE CONNECTORS AT MAXIMUM 610 mm O.C. ALONG THE BEAM.
8. REINFORCING STEEL SHALL NOT BE USED TO SUPPORT CONCRETE BUGGIES, MATERIAL CARTS OR BUNDLES OF RE-BARS.
9. COST OF ALL BAR SUPPORTS AND TIE WIRE SHALL BE INCLUDED IN BID PRICE FOR REINFORCING STEEL.
10. A REINFORCING BAR MAY BE SUBSTITUTED WHEN HEAVY BEAM BOLSTER UPPER OF A 25 mm OR LESS HEIGHT IS REQUIRED. SEE TABLE A ABOVE.
11. A SPECIAL UPPER BEAM BOLSTER (AS DETAILED THIS SHEET) MAY BE SUBSTITUTED FOR HEAVY BEAM BOLSTER UPPERS REQUIRED IN HEIGHTS OF 135 mm OR GREATER.
12. STEEL IN TOP AND BOTTOM OF SLABS OF REINFORCED CONCRETE HOLLOW BOX GIRDERS WILL BE SUPPORTED IN ACCORDANCE WITH THIS DRAWING.
- 3a. PLASTIC PROTECTED LEGS SHALL BE DIPPED AND BAKED ONTO THE UNTURNED LEGS PER THE LATEST C.R.S.I. SPECIFICATIONS.
- 3b. STAINLESS PROTECTED LEGS SHALL BE MADE FROM STAINLESS STEEL WITH A MINIMUM CHROMIUM CONTENT OF 16 % (SIMILAR TO AISI TYPE 430) PER THE LATEST C.R.S.I. SPECIFICATIONS.
13. USE TABLE A AND/OR B FOR BAR SIZES TO DETERMINE BEAM BOLSTER SIZE TO USE.
14. REINFORCING STEEL FOR THE BOTTOM MAT OF APPROACH SLABS AND BOTTOM SLABS OF BOX BRIDGES AND CULVERTS MAY BE SUPPORTED ON PRECAST CONCRETE OR MORTAR BLOCKS, PROVIDED THE LINES AND GRADE SHOWN ON PLANS AND THE REQUIREMENTS OF SECTION 604 TENNESSEE SPECIFICATIONS ARE SATISFIED.

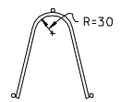


TYPICAL DETAILS FOR BOX TYPE STRUCTURES

BEAM BOLSTER (BB)



SPECIAL UPPER BEAM BOLSTER



END VIEW

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

M/R MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS 1996

DESIGNED BY _____ DATE _____
DRAWN BY K.L. FRANKENFIELD DATE 9-87
SUPERVISED BY J. FIELDS ℄ DATE 9-87
CHECKED BY _____ DATE _____

CORRECT. Edward P. Wasserman
ENGINEER OF STRUCTURES

DIVISION OF MSTRIC

STDM-9-1