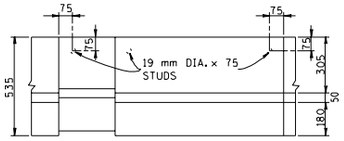
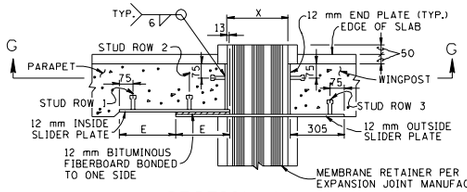
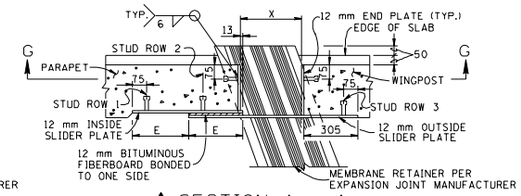


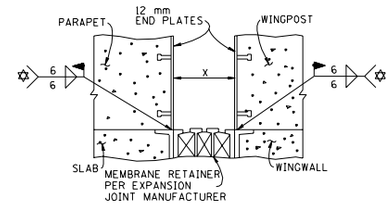
PLAN VIEW OF PARAPET



SECTION A - A



SECTION A - A
(SKEWED EXPANSION JOINT)



SECTION G - G
NOTE: WELD WIDTH OF CONTACT POINT

E DENOTES: ONE HALF OF THE TOTAL EXPANSION JOINT MOVEMENT PLUS (+) 75 mm, AT MID TEMPERATURE.

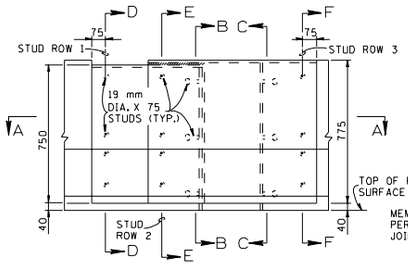
IF E IS LESS THAN 165 mm OMIT STUD ROW 2

X DENOTES: EXPANSION JOINT

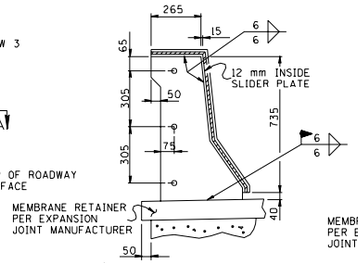
PROJECT NO.	YEAR	SHEET NO.
	1996	

REVISIONS

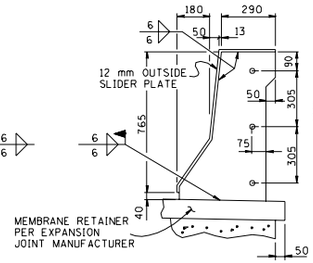
NO.	DATE	BY	BRIEF DESCRIPTION
1	6-10-96	BRB	NEW METRIC STANDARD
2	5-21-99	CMH	REVISED DEPTH OF 13mm DIA.ROD
3	7-31-00	CMH	REVISED WELD & ADDED SKEWED SECTION
4	1-5-01	CMH	REVISED NOTE



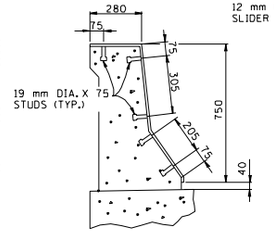
ELEVATION VIEW OF PARAPET



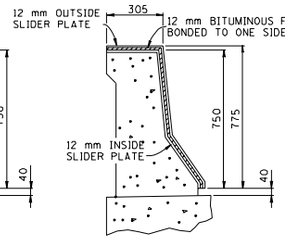
SECTION B - B
(SHOWING STUD SPACING IN END PLATE)



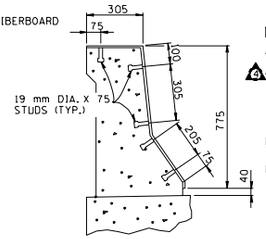
SECTION C - C
(SHOWING STUD SPACING IN END PLATE)



SECTION D - D
(SHOWING STUD SPACING FOR 12 mm INSIDE SLIDER PLATE)



SECTION E - E



SECTION F - F
(SHOWING STUD SPACING IN 12 mm OUTSIDE SLIDER PLATE)

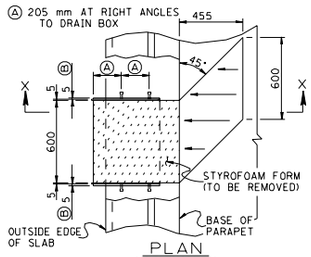
NOTES:

ALL METAL PLATE MATERIAL SHALL BE (ASTM A709M) GRADE 250.

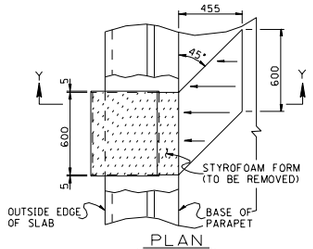
ALL WELDING, INCLUDING STUDS, SHALL BE COMPLETED PRIOR TO METAL PLATES BEING PAINTED OR GALVANIZED. ALL STEEL THAT IS PART OF THE JOINT ASSEMBLY SHALL BE PAINTED WITH 4 MILS OF INORGANIC ZINC OR GALVANIZED IN ACCORDANCE WITH ASTM STANDARD SPECIFICATION A123, UNLESS SHOWN OTHERWISE ON PLANS.

NOTE: ALL CONCRETE POURS SHALL BE WELL CONSOLIDATED AROUND THE SLIDER PLATE ASSEMBLIES.

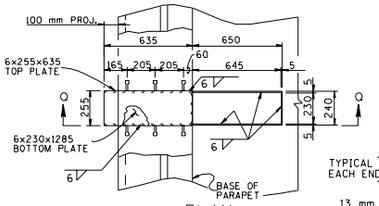
NOTE: COST OF STRUCTURAL STEEL, FORMING, LABOR AND ALL MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE INSTALLATION OF SLIDER PLATE ASSEMBLIES TO BE INCLUDED IN EXPANSION DEVICE.



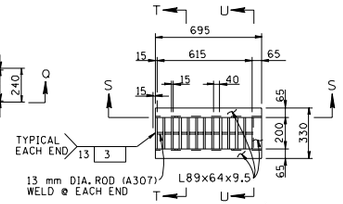
PLAN
(ALTERNATE A)



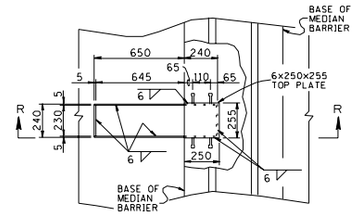
PLAN
(ALTERNATE B)



PLAN



PLAN Ⓐ



PLAN

NOTES:
(FOR ALTERNATES A & B)

FOR ALTERNATE A: ALL METAL PLATE MATERIAL SHALL BE AASHTO M270 (ASTM A709M) GRADE 250.

TOP OF DRAIN TO BE SUPPORTED INTERNALLY PRIOR TO AND DURING POURING OF PARAPET CONCRETE. SUPPORT MATERIAL TO BE REMOVED AFTER THE PARAPET CONCRETE HAS SET.

THE COST OF THE DECK DRAINS TO BE INCLUDED IN COST OF THE PARAPET.

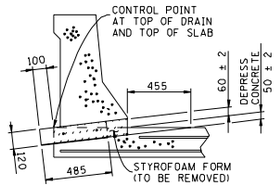
GENERAL NOTES:

ALL STUDS SHALL BE 12.7 mm DIA. x 50 mm (A307).

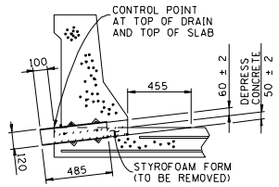
THE CONTRACTOR MAY USE EITHER ALTERNATE A OR B, EXCEPT WHERE GRATE INLET DRAINS ARE DESIGNATED. EITHER A WHITE OR GREY PVC MATERIAL MAY BE USED FOR ALTERNATE B.

ALL WELDING, INCLUDING STUDS, SHALL BE COMPLETED PRIOR TO METAL DRAINS BEING ZINC COATED. ZINC COATING SHALL BE AS SPECIFIED BY ASTM STANDARD SPECIFICATION A123.

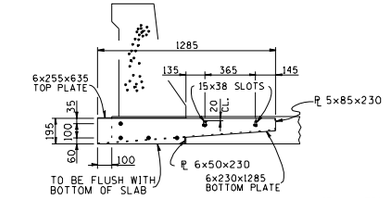
REINFORCING STEEL IN CONFLICT WITH DECK DRAIN TO BE CUT IN FIELD. EPOXY COATED REINFORCING STEEL TO BE REPAINTED ACCORDING TO ASTM D3963M AND SPECIAL PROVISION 907A.



SECTION X - X
(ALTERNATE A)

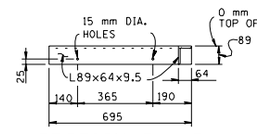


SECTION Y - Y
(ALTERNATE B)

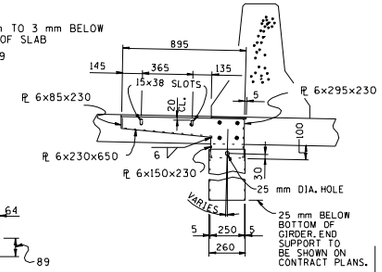


SECTION Q - Q

TYPE 1

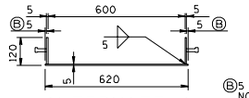


SECTION S - S



SECTION R - R

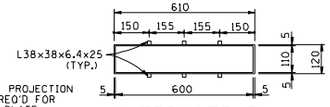
TYPE 2



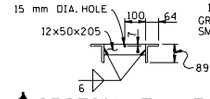
ALTERNATE A

(SECTION MAY BE BENT PLATE IN LIEU OF FABRICATION SHOWN THIS DETAIL)

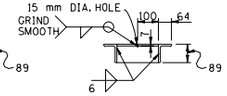
Ⓑ 5 mm PROJECTION NOT REQ'D FOR BENT PLATE.



ALTERNATE B



Ⓐ SECTION T - T



SECTION U - U Ⓐ

GRATE INLET DRAIN DETAILS

NOTE: COST OF STRUCTURAL STEEL, FORMING, LABOR AND ALL MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE INSTALLATION OF GRATE INLET DRAIN TO BE INCLUDED IN PAY ITEM FOR GRATE INLET DRAIN TYPE 1 AND/OR TYPE 2.

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STEEL SLIDER PLATE ASSEMBLIES FOR CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS 1996

DESIGNED BY C.M. HILES DATE 12-92
DRAWN BY KIM FRANKENFIELD DATE 12-92
SUPERVISED BY C.M. HILES DATE 12-92
CHECKED BY C.M. HILES DATE

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

DIVISION OF METRIC

SHEET 2 OF 13
STDM-1-2