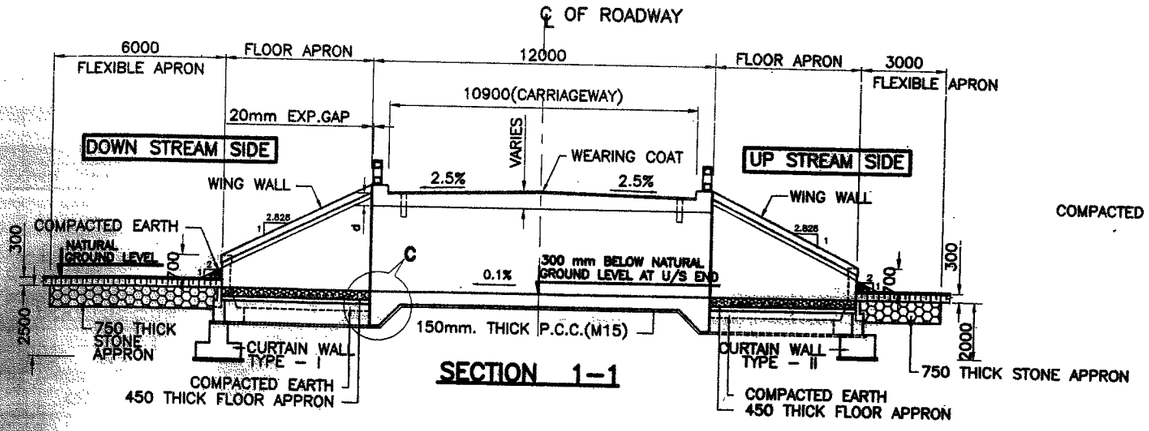
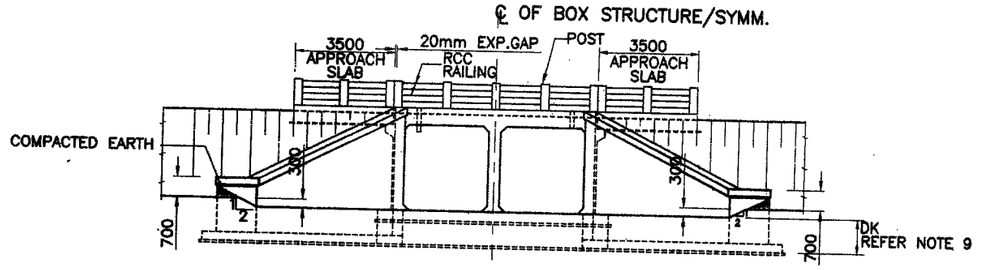
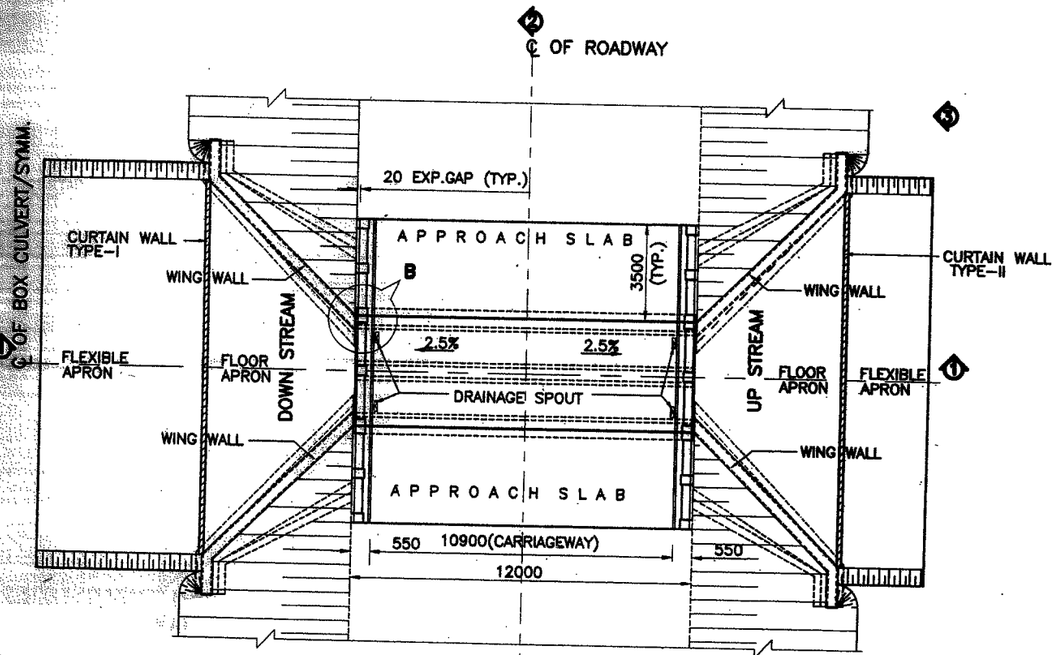
DRG.NO. SD/104



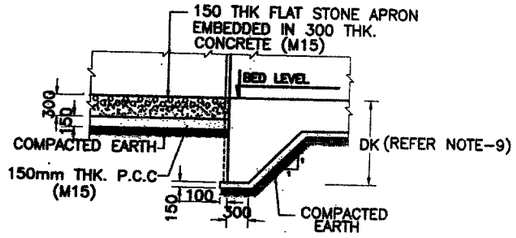
SECTION 1–1



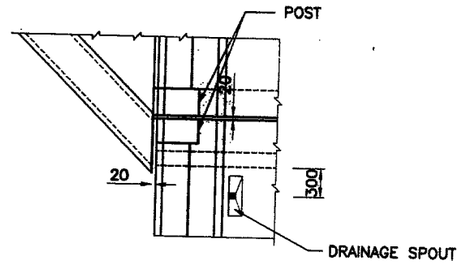
VIEW 3–3



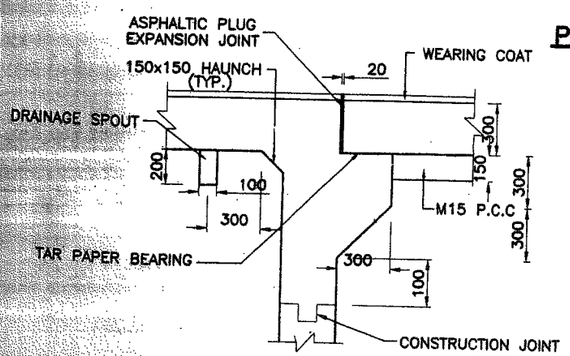
PLAN



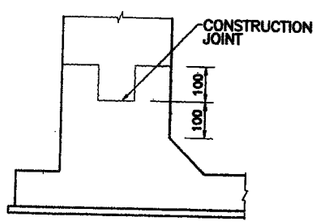
DETAIL – C



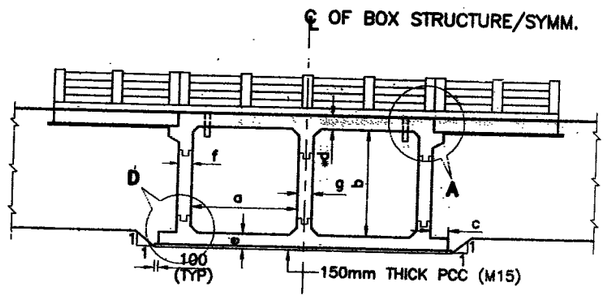
DETAIL – B



DETAIL – A



DETAIL D



SECTION 2–2

TABLE SHOWING SALIENT DIMENSIONS

BOX CELL DESIGNATION Nc/ab/Ec	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	g (mm)	REQUIRED BEARING CAPACITY CATEGORY	DESIGN BASE PRESSURE (T/M²)	ALLOWABLE DRAWDOWN AT A TIME (M)
2/22/0	2000	2000	300	400	400	370	300	B	8.97	0.76
2/23/0	2000	3000	300	400	420	400	300	C	10.35	0.91
2/32/0	3000	2000	300	450	450	400	300	B	7.56	1.47
2/33/0	3000	3000	300	470	450	420	350	B	8.52	1.75

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
2. FOR GENERAL NOTES AND REFERENCE DRAWINGS REFER DRG. NO. SD/101.
3. FOR REINFORCEMENT DETAILS REFER DRG. NO. SD/110.
4. FOR DETAILS OF WING WALL REFER DWG. NO. SD/113.
5. SOIL DENSITY ON THE BACKFILL SHOULD CONFORM TO CLAUSE 305.2.1.5 OF MOST SPECIFICATION.
6. NET BEARING CAPACITY REQUIRED FOR SOIL IS DIVIDED IN FOUR CATEGORIES AS SHOWN BELOW :

CATEGORY	::	NET BEARING CAPACITY REQUIRED FOR SOIL
A	::	8 T/M²
B	::	10 T/M²
C	::	15 T/M²
D	::	20 T/M²

7. SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
8. DESIGNS ARE GIVEN FOR THE BOX CELL STRUCTURES ONLY. THESE HAVE NO BEARING WITH THE DESIGN OF EMBANKMENT WHICH WILL BE TAKEN UP BY ENGINEER–IN–CHARGE SEPERATELY.
9. 'DK' IS DEPTH OF KEY AT BASE SLAB.

FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UPTO 900mm	1200mm.
GREATER THAN 900mm	e+300mm

e = BASE SLAB THICKNESS

*d DECK SLAB THICKNESS AT INNER EDGE OF KERB AS SHOWN IN SECTION

GOVERNMENT OF INDIA
MINISTRY OF SURFACE TRANSPORT
(ROADS WING), NEW DELHI.

STANDARD DRAWINGS FOR BOX CELL STRUCTURES

DOUBLE CELL R.C.C BOX CULVERTS
2m x 2m TO 3m x3m
(WITHOUT EARTH CUSHION)
GENERAL ARRANGEMENT

DESIGNED BY	CHECKED BY	APPROVED FOR ISSUE BY	1999
1 (A.R.GHOSH) CES (I) LTD	(M.C.TANDON) TCPL	(C.C.BHATTACHARYA) C.E (R) S&R MOST	DRG. NO. SD/104

Source: MoST Standard Drawings for Box Cell Culverts (2000) - older reference, verify with current IRC / MoRTH. Scan cleaned by helptheengineer.com