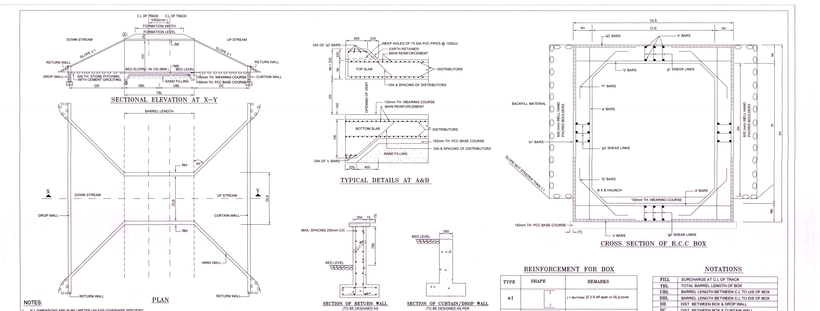
ANNEXURE
PB-1A F1



STRUCTURAL DESIGN DETAILS OF RCC SINGLE BOX CULVERT FOR 0.0m FILL HEIGHT - (DOUBLE LINE TRACK CURVED UPTO 4°)

DESCRIPTION OF DETAILS	SPAN LENGTH X BOX HEIGHT CONFIGURATION						
	2mX2.8m	2mX2.5m	2mX3.0m	2mX3.5m	2mX4.0m	3mX1.8m	3mX2.0m
REINFORCEMENT DETAILS A1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
A2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
B	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
C	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
D	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
E	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G3	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
h	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
T HICKNESS OF SLABS	TOP SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm
	BOTTOM SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm
	SIDE WALLS 40cm	40cm	40cm	40cm	40cm	40cm	40cm
MAX. FOUNDATION PRESSURE	20t/m²	20t/m²	21t/m²	20t/m²	20t/m²	19t/m²	18t/m²

DESCRIPTION OF DETAILS	SPAN LENGTH X BOX HEIGHT CONFIGURATION						
	3mX2.5m	3mX3.0m	3mX3.5m	3mX4.0m	3mX4.5m	3mX5.0m	3mX6.0m
REINFORCEMENT DETAILS A1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
A2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
B	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
C	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
D	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
E	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G3	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
h	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
T HICKNESS OF SLABS	TOP SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm
	BOTTOM SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm
	SIDE WALLS 40cm	40cm	40cm	40cm	40cm	40cm	40cm
MAX. FOUNDATION PRESSURE	19t/m²	17t/m²	18t/m²	18t/m²	20t/m²	20t/m²	20t/m²

NOTES:
1. BEARING CAPACITY SHOULD NOT BE LESS THAN MAXIMUM FOUNDATION PRESSURE
2. THIS DRAWING SHALL BE READ ALONG WITH GENERAL ARRANGEMENT DRAWING NO. RDSO/B-10155

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R. D. S. O.

STANDARD DRAWING OF SINGLE BOX CULVERT FOR DOUBLE LINE TRACK CURVED UPTO 4° (STRUCTURAL DESIGN DETAILS FOR 0.0m FILL HEIGHT) 25t LOADING – 2008

PROVISIONAL DATE: 22.05.2013

RDSO/B-10155/1

NOTE | SPECIFICATION | SCALE | ALT | DESCRIPTION | DATE

STRUCTURAL DESIGN DETAILS OF RCC SINGLE BOX CULVERT FOR 1.0m FILL HEIGHT - (DOUBLE LINE TRACK CURVED UPTO 4°)

DESCRIPTION OF DETAILS	SPAN LENGTH X BOX HEIGHT CONFIGURATION						
	2mX1.8m	2mX2.0m	2mX2.5m	2mX3.0m	2mX3.5m	2mX4.0m	3mX1.8m	3mX2.0m
REINFORCEMENT DETAILS A1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
A2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
B	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
C	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
D	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
E	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G3	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
h	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
T HICKNESS OF SLABS	TOP SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	BOTTOM SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	SIDE WALLS 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
MAX. FOUNDATION PRESSURE	17t/m²	17t/m²	18t/m²	18t/m²	20t/m²	21t/m²	18t/m²	18t/m²

DESCRIPTION OF DETAILS	SPAN LENGTH X BOX HEIGHT CONFIGURATION						
	3mX2.5m	3mX3.0m	3mX3.5m	3mX4.0m	3mX4.5m	3mX5.0m	3mX6.0m	4mX2.0m
REINFORCEMENT DETAILS A1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
A2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
B	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
C	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
D	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
E	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G3	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
h	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
T HICKNESS OF SLABS	TOP SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	BOTTOM SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	SIDE WALLS 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
MAX. FOUNDATION PRESSURE	19t/m²	20t/m²	21t/m²	20t/m²	20t/m²	20t/m²	18t/m²	18t/m²

NOTES:
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R. D. S. O.

STANDARD DRAWING OF SINGLE BOX CULVERT FOR DOUBLE LINE TRACK CURVED UPTO 4° (STRUCTURAL DESIGN DETAILS FOR 1.0m FILL HEIGHT) 25t LOADING – 2008

PROVISIONAL DATE: 22.05.2013

RDSO/B-10155/2

NOTE | SPECIFICATION | SCALE | ALT | DESCRIPTION | DATE

STRUCTURAL DESIGN DETAILS OF RCC SINGLE BOX CULVERT FOR 2.0m FILL HEIGHT - (DOUBLE LINE TRACK CURVED UPTO 4°)

DESCRIPTION OF DETAILS	SPAN LENGTH X BOX HEIGHT CONFIGURATION						
	2mX1.8m	2mX2.0m	2mX2.5m	2mX3.0m	2mX3.5m	2mX4.0m	3mX1.8m	3mX2.0m
REINFORCEMENT DETAILS A1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
A2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
B	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
C	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
D	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
E	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
F2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G3	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
h	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
T HICKNESS OF SLABS	TOP SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	BOTTOM SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	SIDE WALLS 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
MAX. FOUNDATION PRESSURE	19t/m²	20t/m²	21t/m²	20t/m²	20t/m²	20t/m²	18t/m²	18t/m²

DESCRIPTION OF DETAILS	SPAN LENGTH X BOX HEIGHT CONFIGURATION						
	3mX2.5m	3mX3.0m	3mX3.5m	3mX4.0m	3mX4.5m	3mX5.0m	3mX6.0m	4mX2.0m
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F2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G1	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G2	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
G3	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
h	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm	10mm Dia @ 150mm
T HICKNESS OF SLABS	TOP SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	BOTTOM SLAB 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
	SIDE WALLS 40cm	40cm	40cm	40cm	40cm	40cm	40cm	40cm
MAX. FOUNDATION PRESSURE	19t/m²	20t/m²	21t/m²	20t/m²	20t/m²	20t/m²	18t/m²	18t/m²

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R. D. S. O.

STANDARD DRAWING OF SINGLE BOX CULVERT FOR DOUBLE LINE TRACK CURVED UPTO 4° (STRUCTURAL DESIGN DETAILS FOR 2.0m FILL HEIGHT) 25t LOADING – 2008

PROVISIONAL DATE: 22.05.2013

RDSO/B-10155/3

NOTE | SPECIFICATION | SCALE | ALT | DESCRIPTION | DATE