

PROPOSED BRIDGE DETAILS

S.NO.	BR.NO.	CHANNAGE	PROPOSED BRIDGE SPAN	F.L. (m)	H.F.L. (m)	B.L. BOARD CHANNAGE (m)	RAILWAY CHANNAGE
1	722	112+777.450	1 X 2.00M X 2.00M RCC BOX	80.746	75.934	74.895	662/23-25

RETURN WALL DETAILS(M.M)

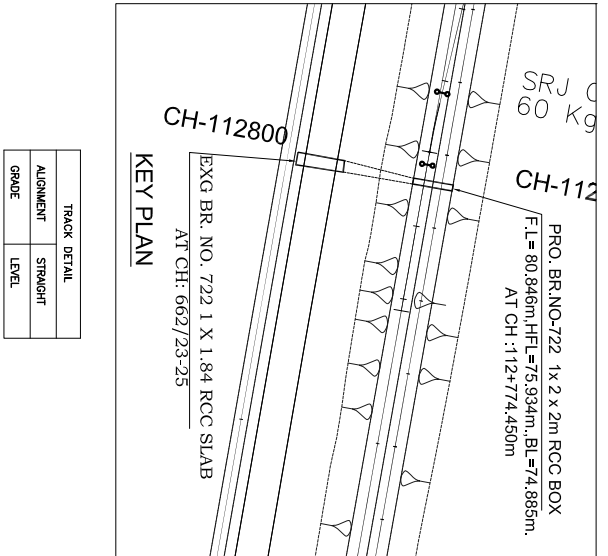
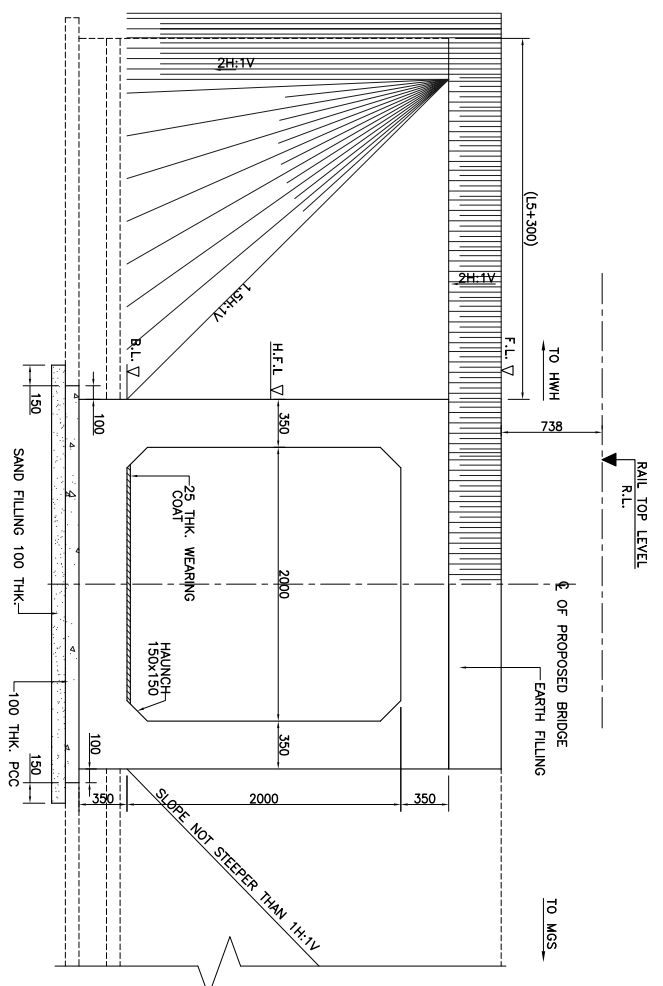
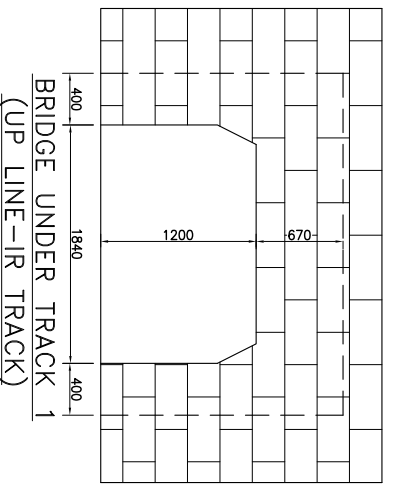
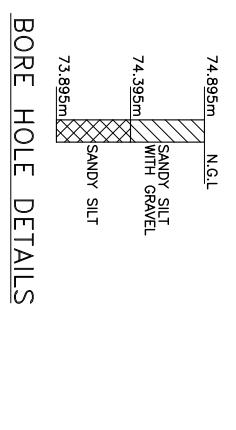
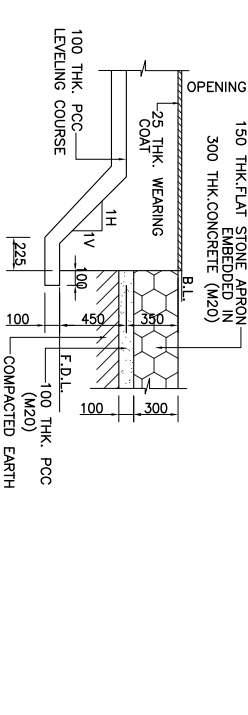
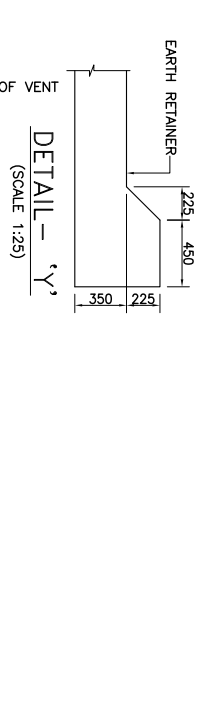
a	b	c	d	e	f	g	h
200	200	1700	400	700	2800	250	1750

PROPOSED DIMENSIONS DETAILS(M.M)

L1	L2	L3	L4	L5	L6	n1	n2	n3
28294	10972	11322	4875	3525	4700	3611	3894	4325

EXISTING BRIDGE DETAILS

S.NO.	BR.NO.	EXISTING BRIDGE SPAN	F.L. (m)	H.F.L. (m)	B.L. BOARD CHANNAGE (m)	RAILWAY CHANNAGE
1	722	1 X 1.84M X 1.20M RCC BOX	--	75.934	74.895	--



- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
 - EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE APPROVAL OF THE CONCERNED ZONAL RAILWAY & COMPLIANCE OF THE SAFETY REQUIREMENT AS DIRECTED BY STONE PROHIBITION IN SLOPES OF BANK ON APPROACHES OF BRIDGE IF REQUIRED SHALL BE PROVIDED DEPENDING ON SITE CONDITION. THIS SHALL BE DECIDED BY INCHARGE AT SITE.
 - THE BRIDGE IS DESIGNED FOR MODERATE EXPOSURE CONDITION.
 - GRADE OF CONCRETE SHALL BE DESIGN MIX AND 28 DAY CHARACTERISTIC STRENGTH OF VARIOUS COMPONENTS SHALL BE AS UNDER:-
a. RCC BOX / RETURN WALL M25
b. BALLAST RETAINER / RCC TROUGH M20
c. CURTAIN WALL / DROP WALL M25
d. LEVELING COURSE PCC M20
 - GRADE OF REINFORCEMENT STEEL, F_a-500 CONFORMING TO IS 1786-2008 FOR BOX MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50MM.
 - VALUE FOR BACKFILL MATERIAL SHALL NOTE BE LESS THAN 35% BACKFILL MATERIAL BEHIND ABUTMENTS, WING WALLS AND RETURN WALLS SHALL BE PROVIDED.
 - ALL WORKS ARE TO BE CARRIED OUT AS PER THE FOLLOWING STANDARD & SPECIFICATION.
a. IRS BRIDGE RULES.
b. IRS CONCRETE BRIDGE CODE.
c. IRS SPECIFICATION & FOUNDATION CODE.
d. DECC SPECIFICATION.
e. IRS BRIDGE MANUAL.
 - DEPTH AND TYPE OF MATERIAL FOR GROUND IMPROVEMENT BELOW BOX AND FOUNDATION OF PROTECTION WORK SHALL BE PROVIDED AS PER 6th RECOMMENDATION.
 - BASE PRESSURE AT FOUNDING LEVEL IS 13.0 T/m².
 - SAFE BEARING CAPACITY AT FOUNDING LEVEL CONSIDERED IS 13T/m² SOIL DENSITY -1.8T/m³ ANGLE OF INTERNAL FRICTION $\phi=30^\circ$.
 - LEVELS SHOWN IN THE DRAWING SHALL BE VERIFIED AT SITE BEFORE PROCEEDING FOR CONSTRUCTION.

ABBREVIATIONS

Abbreviation	Meaning
R.L.	RAIL LEVEL.
F.L.	FORMATION LEVEL.
B.L.	BED LEVEL.
S.L.	SCOUR LEVEL.
Bn	BETWEEN
G.L.	GROUND LEVEL.
N.G.L.	NATURAL GROUND LEVEL.
H.F.L.	HIGHEST FLOOD LEVEL.
I.R.	INDIAN RAILWAY.
DFC	DEDICATED FREIGHT CORRIDOR.
P.C.C.	PLAIN CEMENT CONCRETE.
R.C.C.	REINFORCEMENT CEMENT CONCRETE.
G.S.B.	GRANULAR SUB BASE.
TYP.	TYPICAL.
ϕ	FRICTION ANGLE FOR SOIL.

LOADING STANDARD: AS PER CONTRACT

PROJECT : Design & Construction of Rail Flyover Near Ganjalkhwa on Lumsum Basis in different stretches between Delhi -on-Sone & Mughal Sarai of Eastern Dedicated Freight Corridor

DETAIL : GENERAL ARRANGEMENT DRAWING BRIDGE NO.722 CH-112+777.450(1 X 2.00M X 2.00M RCC BOX CAST IN SITU)

REV. NO.	DATE	STATUS	DESCRIPTION	DESIGNED	CHECK	DESIGN CONTS.
E	22.03.16	P	REVISED AS PER PLAN & PROFILE	SS	SS	ASV
D	11.08.15	P	REVISED AS PER PLAN & PROFILE	AS	SS	ASV
C	20.06.15	P	REVISED AS PER PLAN & PROFILE	AS	SS	ASV
B	30.04.15	P	REVISED AS PER PLAN & PROFILE	AS	SS	ASV
A	30.04.15	P	REVISED AS PER PLAN & PROFILE	AS	SS	ASV

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. EASTERN CORRIDOR

SHRINAGANIVILLU SR. MANAGER (BRIDGE)
SINHGANIVILLU (Asst. Incharge Pct. Ltd.)

II & FS Engrg. CPT JV

ICT / P/MC

DRCC / M/GS

ENGG-DRCC/CL / DELHI

SCALE :

DRCC/CL DRG. NO

ASC INFRA TECH PVT. LTD.

STATIS D