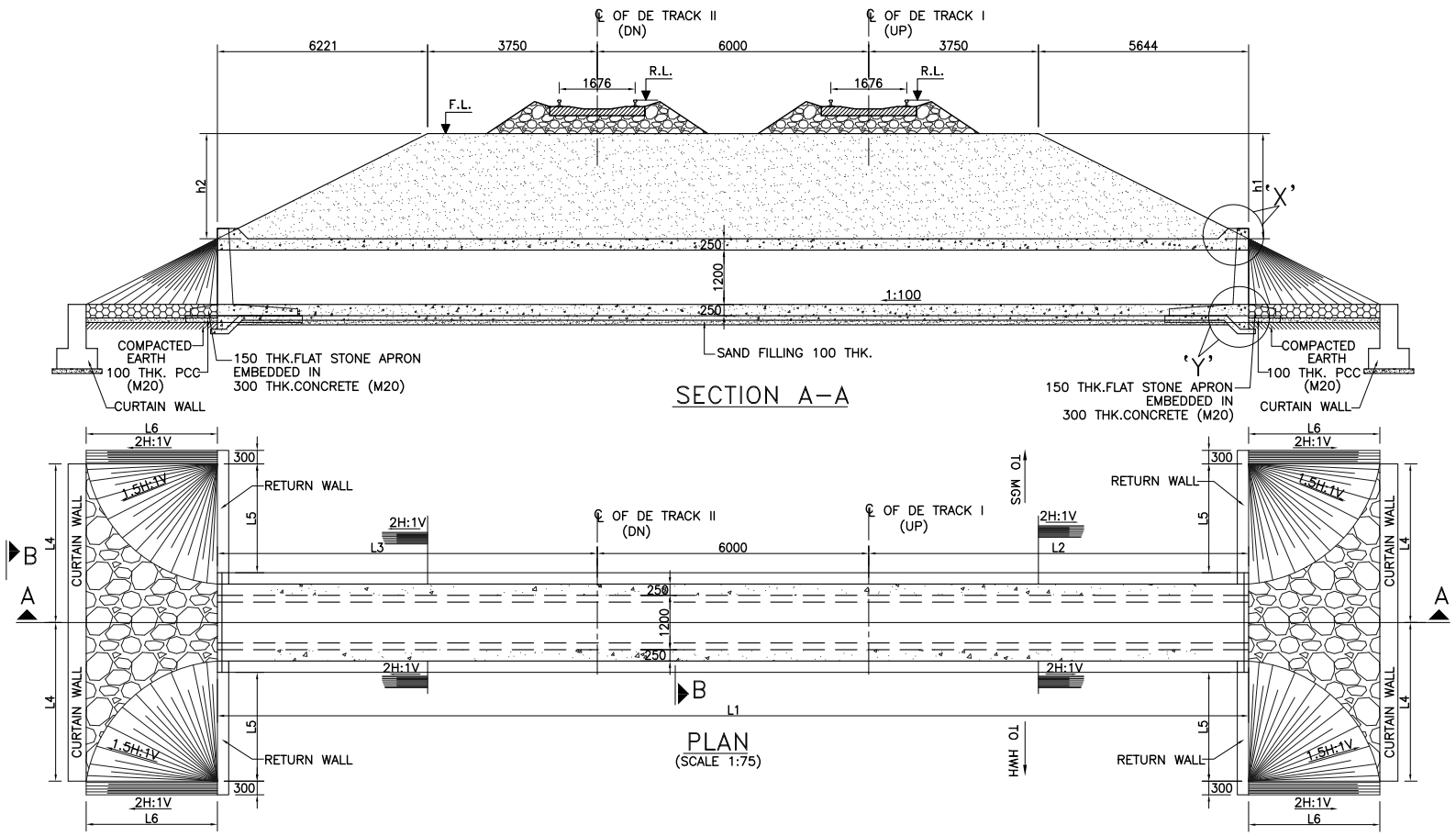
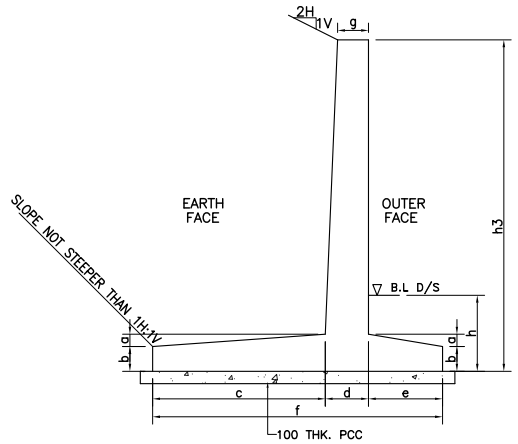
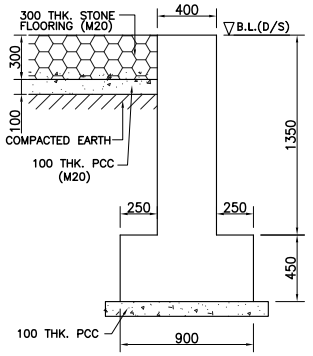
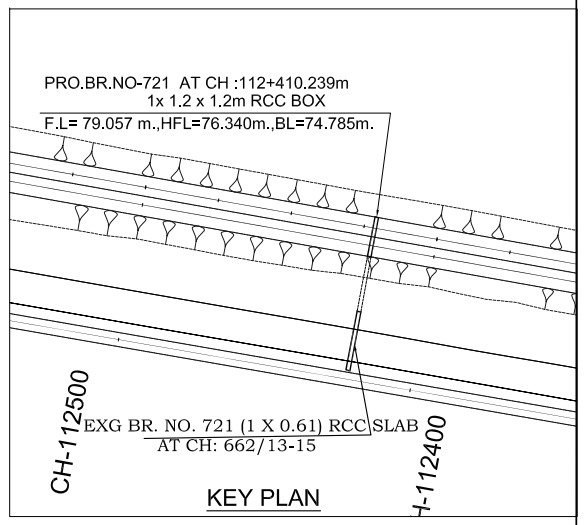




TYPICAL SECTION FOR RETURN WALL
(SCALE 1:25)



TYPICAL DETAIL OF CURTAIN WALL
(SCALE 1:25)



KEY PLAN

TRACK DETAIL	
ALIGNMENT	STRAIGHT
GRADE	LEVEL

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENIONS SHALL BE FOLLOWED.
3. SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
4. 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 INCHARGE AT SITE.
5. STONE PITCHING ON SLOPES OF BANK ON APPROACHES OF BRIDGE IF REQUIRED SHALL BE PROVIDED DEPENDING ON SITE CONDITION. THIS SHALL BE DECIDED BY INCHARGE AT SITE.
6. THE BRIDGE IS DESIGNED FOR MODERATE EXPOSURE CONDITION
7. GRADE OF CONCRETE SHALL BE DESIGN MIX AND 28 DAY CHARACTERISTIC STRENGTH OF VARIOUS COMPONENTS SHALL BE AS UNDER:–
   a. RCC BOX /RETURN WALL M35
   b. BALLAST RETAINER /RCC TROUGH M30
   c. CURTAIN WALL /DROP WALL M25
   d. LEVELING COURSE PCC M20
8. GRADE OF REINFORCEMENT STEEL Fe–500 CONFORMING TO IS 1786–2008
9. FOR BOX MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50MM.
10. ø VALUE FOR BACKFILL MATERIAL SHALL NOTE BE LESS THAN 35° BACKFILL MATERIAL BEHIND ABUTMENTS. WING WALLS AND RETURN WALLS SHALL BE PROVIDED.
11. ALL WORKS ARE TO BE CARRIED OUT AS PER THE FOLLOWING STANDARD & SPECIFICATION.
    a. IRS BRIDGE RULES.
    b. IRS CONCRETE BRIDGE CODE.
    c. IRS SUB STRUCTURE & FOUNDATION CODE.
    d. DFCC SPECIFICATIONS.
    e. IRS BRIDGE MANUAL.
12. DEPTH AND TYPE OF MATERIAL FOR GROUND IMPROVEMENT BELOW BOX AND FOUNDATION OF PROTECTION WORK SHALL BE PROVIDED AS PER GT RECOMMENDATION.
13. BASE PRESSURE AT FOUNDING LEVEL IS 11.7 T/m².
14. SAFE BEARING CAPACITY AT FOUNDING LEVEL CONSIDERED IS 12T/m². SOIL DENSITY –1.8T/m3 ANGLE OF INTERNAL FRICTION ø=30°.
15. LEVELS SHOWN IN THE DRAWING SHALL BE VERIFIED AT SITE BEFORE PROCEEDING FOR CONSTRUCTION.

PROPOSED BRIDGE DETAILS

S.NO.	BR.NO.	CHAINAGE	PROPOSED BRIDGE SPAN	F.L (m)	H.F.L (m)	B.L U/S (m)	B.L D/S (m)	FREE BOARD (m)
1	721	112+410.239	1 X 1.20M X 1.20M RCC BOX	79.057	76.340	74.785	74.531	2.717

EXISTING BRIDGE DETAILS

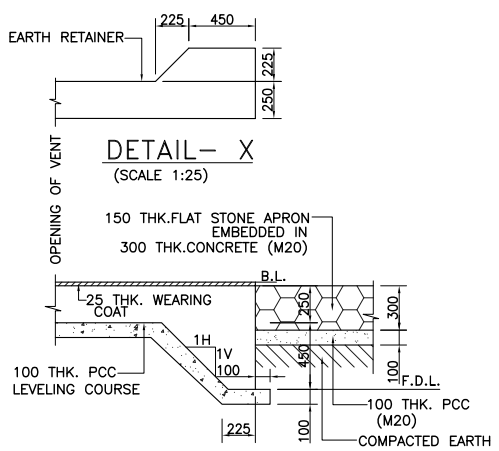
S.NO.	BR.NO.	EXISTING BRIDGE SPAN	F.L (m)	H.F.L (m)	B.L (m)	FREE BOARD (m)	RAILWAY CHAINAGE
1	721	1 X 0.61M RCC BOX	--	76.340	74.785	--	662/13-15

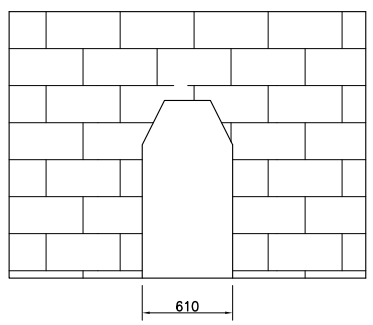
PROPOSED DIMENSIONS DETAILS(M.M)

L1	L2	L3	L4	L5	L6	h1	h2	h3
25365	9394	9971	3025	2175	2900	2822	3076	3425

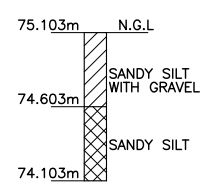
RETURN WALL DETAILS(M.M)

a	b	c	d	e	f	g	h
100	200	1200	300	500	2000	250	1750

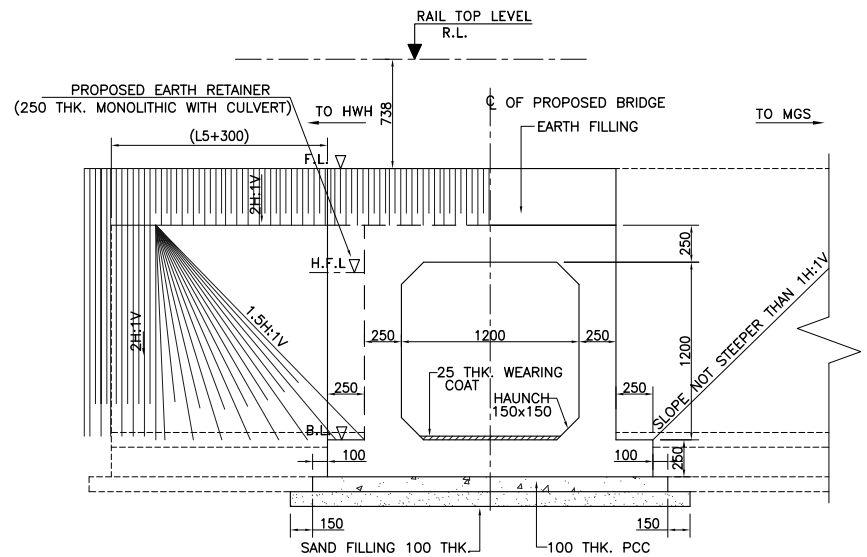




BRIDGE UNDER TRACK 1
(UP LINE–IR TRACK)
DET.OF EXG. BRIDGE No. 721
(SCALE 1:25)



BORE HOLE DETAILS



HALF ELEVATION D/S HALF SECTION U/S

SECTION B–B

ABBREVIATIONS

R.L : RAIL LEVEL.	U/S : UP STREAM.
F.L : FORMATION LEVEL.	D/S : DOWN STREAM.
B.L : BED LEVEL.	ROW : RIGHT OF WAY.
S.L : SCOUR LEVEL.	G.T. : GEOTECHNICAL.
Bn : BETWEEN	TH : THICK.
G.L : GROUND LEVEL.	CH. : CHAINAGE.
N.G.L : NATURAL GROUND LEVEL.	No. : NUMBER.
H.F.L : HIGHEST FLOOD LEVEL.	Br. : BRIDGE.
IR : INDIAN RAILWAY.	EXG. : EXISTING.
DFC : DEDICATED FREIGHT CORRIDOR.	PROP. : PROPOSED.
P.C.C. : PLAIN CENENT CONCRETE.	℄. : CENTRE LINE
R.C.C. : REINFORCEMENTD CENENT CONCRETE.	MGS. : MUGHAL SARAI.
GSB. : GRANULAR SUB BASE.	FDL. : FOUNDING LEVEL.
TYP. : TYPICAL.	REF. : REFER.
ø : FRICTION ANGLE FOR SOIL	

LOADING STANDARD: AS PER CONTRACT

REV. NO.	DATE	STATUS	DESCRIPTION	DESIGNED	DRAWN	CHECK	DESIGN CONS. (PC.)
E							
D	22.03.16	P	REVISED AS PER PLAN & PROFILE	SH	SS	KSN	ASV
C	11.08.15	P	REVISED AS PER PLAN & PROFILE	ADS	SS	SPD	ASV
B	20.06.15	P	REVISED AS PER PLAN & PROFILE	ADS	SS	SPD	ASV
A	30.04.15	P	REVISED AS PER PLAN & PROFILE	ADS	SS	SPD	ASV

डेडीकेटेड फ्रेट कोरीडोर

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. EASTERN CORRIDOR

SRINAGANJANEYULU
SR. MANAGER (BRIDGE)
(ASC Infratech Pvt. Ltd.)

PM	CPM	RE	TL	APM	DY CPM	CPM	GM
IL & FS Engg-GPT JV		ICT / PMC		DFCCIL / MGS			ENGG-3/DFCCIL / DELHI

IL & FS Engg - GPT (JV)
Door No.8-2-120/113/34F,
Sanali Info Park,Cyber Towers,Road No.2,
Banjara Hills,Hyderabad-500033,India
Tel.No+91-40-40409333 Fax.No+91-40-40409444.

PROJECT :	**Design & Construction of Rail Flyover Near Ganjkhwaja on Lumpsum Basis in different stretches between Dehri -on-Sone & Mughal Sarai of Eastern Dedicated Freight Corridor**
DETAIL :	GENERAL ARRANGEMENT DRAWING BRIDGE NO.721 CH:- 112+410.239(1 X 1.20M X 1.20M RCC BOX,CAST IN SITU)
SCALE :	
DFCCIL DRG.NO	ASC/ILFS-GPT/DFC-EC/MNBR/721/101 REVISION D

ASC Infratech Pvt. Ltd.
H-37, 1st Floor, Sector-63,
Noida - 201301 (U.P) Tel: 0120-4248813-20
Fax: 0120-4237953, email: info@ascinfratech.com

STATUS P