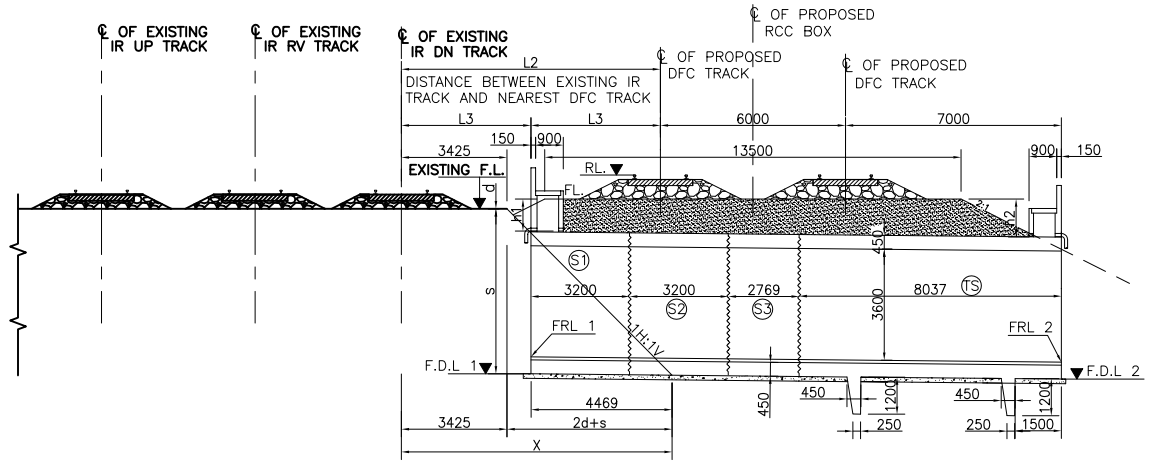
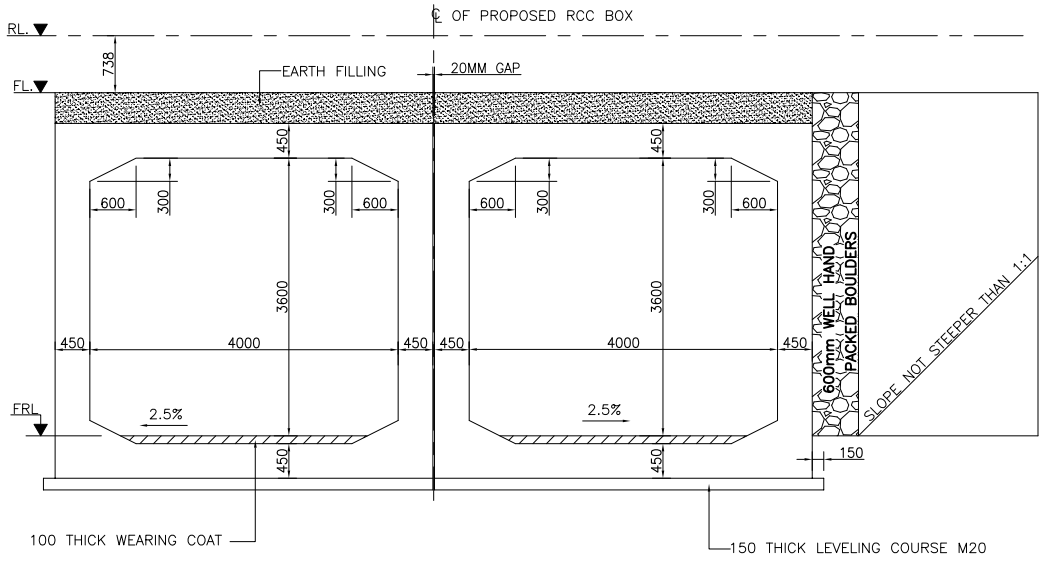
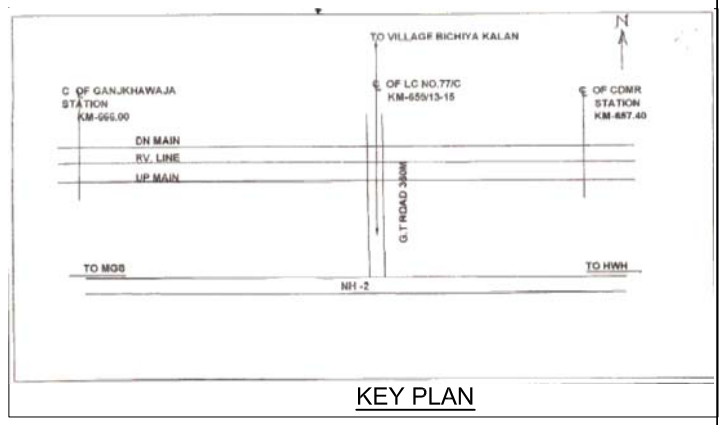


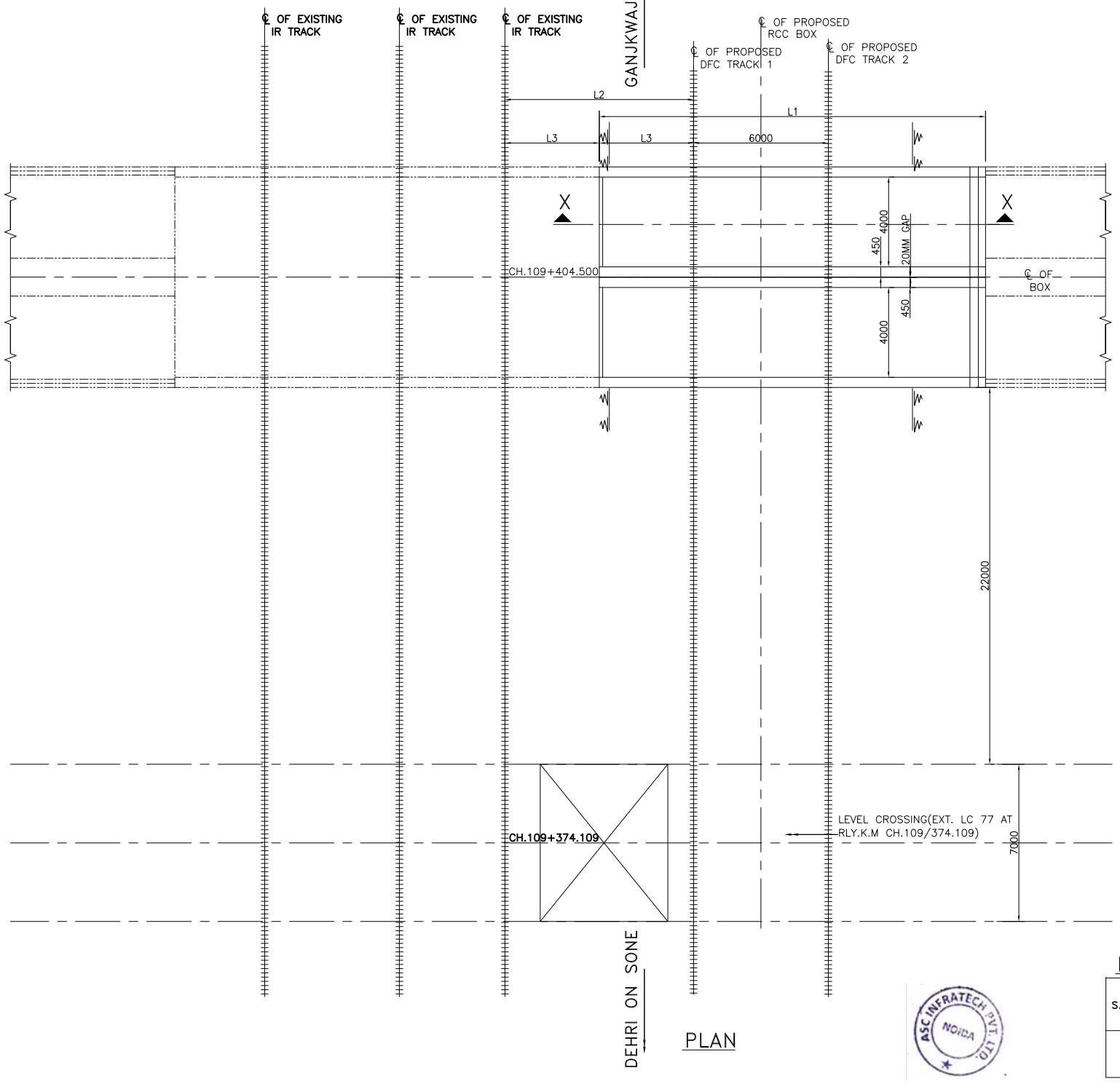
LONGITUDINAL SECTION AT X–X



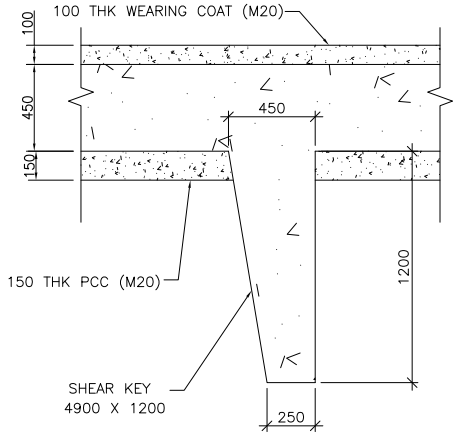
HALF ELEVATION–HALF SECTION OF RCC BOX



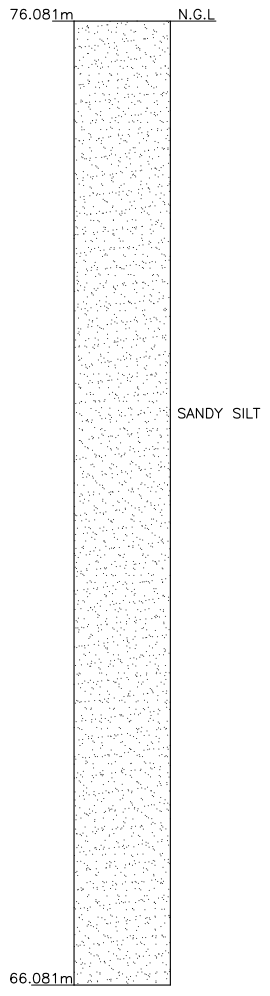
KEY PLAN



PLAN



DETAIL 'X'



DETAILS OF BORE HOLE

EXISTING TRACK

LOWEST RAIL LEVEL (m)
76.891

PROPOSED DIMENSIONS DETAILS(M)

L1	L2	L3	h1	h2	d	s	X
17.206	8.412	4.206	1.205	1.205	0.000	5.250	8.675

PROPOSED BRIDGE LEVELS (M)

S.NO.	BR.NO.	PROPOSED BRIDGE SPAN	G.L (m)	F.L (m)	F.D.L 1 (m)	F.D.L 2 (m)	FRL 1 (m)	FRL 2 (m)
1	BURIED BOX LC–77	2 X 4.00M X 3.60M RCC BOX	76.081	76.706	70.901	70.901	71.451	71.451

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. CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS ALIP)
   i) IRS BRIDGE RULES.
   ii) IRS CONCRETE BRIDGE CODE.
   iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
   iv) RELEVENT BIS CODES.
4. LOADING TO BE FOLLOWED IS D.F.C. LOADING & (IRC/MORTH) (32.5 TON AXLE LOAD)
5. GRADE OF REINFORCEMENT STEEL Fe–500 CONFORMING TO IS 1786–2008
6. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
7. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
8. CONSTRUCTION JOINTS SHALL BE PROVIDED AS PER APPENDIX–A OF IRS CONCRETE BRIDGE CODE.
9. WEEP HOLES SHALL BE OF 75/100mm DIA PVC PIPES STAGGERED @1000c/c HORIZONTALLY AND @1000mm. VERTICALLY THROUGH RETURN WALL.
10. WORK SCHME SHALL BE SUCH THAT ADJECENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCPABLE THE SITE ENGINEER WILL DECIDE. THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
11. BEARING CAPACITY OF SOIL IS 28T/M2.
    MAXIMUM BASE PRESSURE UNDER SERVICE CONDITION IS 12.5 T/M2
12. THE EXECUTION OF WORKS SHALL BE DONE SO AS TO ENSURE THAT EXISTING IR TRACK IS IN SAFE CONDITION.
13. BALLAST CUSHION SHALL BE MINIMUM OF 350MM AND MAXIMUM OF 400MM.
14. THE GRADE OF CONCRETE TO BE USED ARE AS FOLLOWS:–
    (a) FOR R.C.C. BOX M35
    (b) FOR LEVELLING COURSE M20
15. CLEAR COVER FOR REINFORCING BARS SHOULD BE 50MM.
16. 600MM THICK BOULDER FILLING SHOULD BE WELL HAND PACKED BOULDERS AND COBBLES BEHIND VERTICAL WALLS OF BOX AND R.C.C WALLS SHOULD BE PROVIDED.
17. A MINIMUM SAND LAYER OF 300MM TH. TO BE SPREAD BELOW PCC
18. ALL R.C.C WORKS TO BE DONE AS PER IRS CONCRETE BRIDGE CODE.
19. REINFORCEMENT SHALL BE CLEAN AND FREE FROM OIL, MILL SCALE ETC.
20. COLD JOINT SHOULD BE AVOIDED DURING CONCRETING WORK.
21. LAPPING OF BARS SHOULD BE MINIMIZED AND STAGGERED WHERE NECESSARY.MINIMUM LENGTH OF LAP SHALL BE MAX OF 53DIA OR 25 TIMES OF THE SMALLER BAR SIZE PLUS 150MM IN TENSION AND 20 TIMES OF THE SMALLER BAR SIZE PLUS 150MM IN COMPRESSION.
22. TOLERANCE SHALL BE FOLLOWED AS PER IRS CONCERT BRIDGE CODE.
23. THE CONCRETE SHALL INVARIABLY BE VIBARATED BY MECHANICAL MEANS.
24. FULL CURING TIME TO BE ALLOWED 14 DAYS MINIMUM.
25. CONSTRUCTION IS DONE BY BOX PUSHING METHODOLOGY, FOR WHICH REFER DRAWING NO. ASC/ILFS–GPT/DFC–EC/BURRIED BOX/77C/204
26. REINFORCEMENT DETAILS DRAWING, FOR WHICH REFER DRAWING NO. ASC/ILFS–GPT/DFC–EC/BURRIED BOX/77C/203

REV. NO.	DATE	STATUS	DESCRIPTION	DESIGNED	DRAWN	CHECK	DESIGN CONS. (PC,)
C	04.07.17	P	CROSS SECTION REVISED	SK	SS	KSN	
B	28.05.14	P	AS PER PMC COMMENTS	SK	SS	SPD	
A	21.05.14	P	HAUNCH SIZE CHANGED	SK	SS	SPD	
0	25.04.14	P	FIRST SUBMISSION	SK	SS	SPD	

डेडीकेटेड फ्रेट कोरीडोर

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. EASTERN CORRIDOR

(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 FOR RCC BURIED BOX NEAR LC-77 @ CH.109+404.500
SCALE :	
DFCCIL DRG.NO	ASC/ILFS-GPT/DFC-EC/BURRIED BOX/77C/201 — REVISION C

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