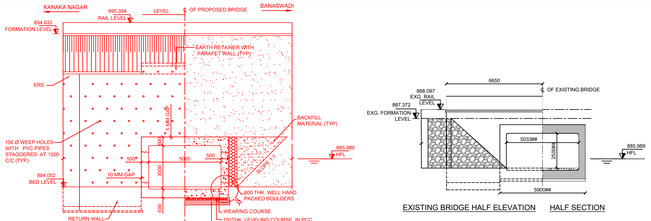
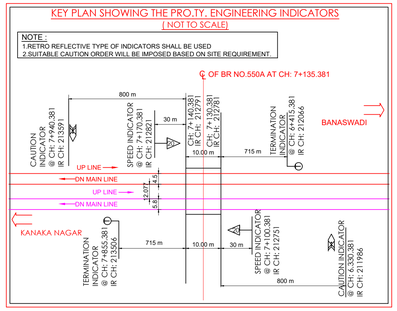
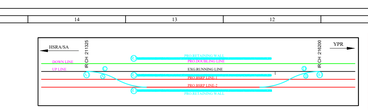






BRIDGE DETAILS

DESCRIPTION	EXISTING IR BRIDGE : 550A	PROPOSED BSRP BRIDGE : 550A
CHAINAGE AT CENTER OF BRIDGE (km)	212786	7+135.381
RAIL LEVEL AT CENTER OF BRIDGE (m)	888.097	895.394
FORMATION LEVEL AT CENTRE OF BRIDGE (m)	887.372	894.632
DIMENSIONS (Nos.x SPANs(m) x HEIGHT(m))	1 x 5.033 x 2.5 m ##	1 x 5 x 3.0m
STRUCTURE CONFIGURATION	SLAB BRIDGE	RCC BOX

LOADING STANDARD

A) PRO.BRIDGE 25T-AXLE LOAD 2008 STD
B) EXG.BRIDGE MBG OF 1987

TRACK DETAILS (PRO.BRIDGE)

LOADING	25T-AXLE LOAD
ALIGNMENT	STRAIGHT
GRADE	LEVEL
RAIL LEVEL	895.394 m
FORMATION LEVEL	894.632m

WATERWAY PARTICULARS

CATCHMENT AREA	3.790 km²
LATITUDE	13° 1' 36.648" N
LONGITUDE	77° 37' 8.690" E
TOPOSHEET NO	0413 N 13
Qdd DISCHARGE	30.96 Cum/sec
Qmax FLOW	2.027 m.
DEPTH OF FLOW	2.027 m.
OHFL	885.989 m
DSHWFL (DESIGN HFL)	885.989 m

	REQUIRED	PROVIDED
WATERWAY AREA, Sqm	15.150	14.25
FREE BOARD, m	1	6643
VERTICAL CLEARANCE, m	0	0.613
SCOUR DEPTH		
From GFWL, m	2	
Scour Level	881.954	
From EL, m	2.033	2.059

EXISTING WATERWAY PARTICULARS

	PROVIDED
WATERWAY AREA, Sqm	8.12
FREE BOARD, m	2394
VERTICAL CLEARANCE, m	1674

TRACK DETAILS (EXG.BRIDGE)

LOADING	MBG-1987
ALIGNMENT	STRAIGHT
GRADE	FALL I IN 66.493
RAIL LEVEL	888.097 m
FORMATION LEVEL	887.372 m

DEPTH OF CONSTRUCTION FOR 1 x 5.0x 3.0 m RCC BOX

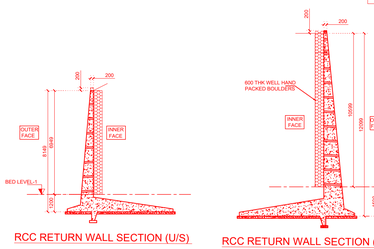
RAIL 60 kg	:	172 mm
GR PAD	:	6 mm
PSC SLEEPER	:	210 mm
BALLAST CUSHION	:	350 mm
EARTH CUSHION	:	7130mm
TOP SLAB	:	600 mm
TOTAL	=	8468 mm

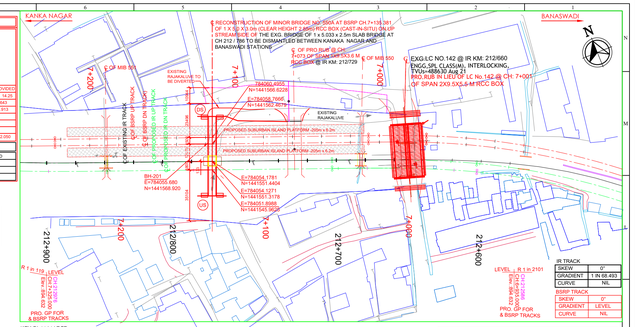
GRADE OF CONCRETE

	GRADE
i. RCC BOX	M35
ii. WEARING COURSE	M25
iii. LEVELLING COURSE (PCC)	M25
iv. RETAINING WALL	M35

ABBREVIATIONS :

℄	-	CENTER LINE
TYP	-	TYPICAL
THK	-	THICKNESS
U/S	-	UP STREAM SIDE
D/S	-	DOWN STREAM SIDE
DN	-	DOWN
EXG	-	EXISTING
FRL	-	FORMATION LEVEL




KANAKA NAGAR
BANASWADI
℄ RECONSTRUCTION OF MINOR BRIDGE NO. 550A AT BSRP CH.7+135.381 OF 1 X 5.0 X 3.0m (CLEAR HEIGHT 2.85m) RCC BOX (CAST-IN-SITU) ON UP STREAM SIDE OF THE EXG. BRIDGE OF 1 x 5.033 x 2.5m SLAB BRIDGE AT CH 212 / 786 TO BE DISMANTLED BETWEEN KANAKA NAGAR AND BANASWADI STATIONS
℄ OF PRO SUMP @ CH: 7+170.381
℄ OF EXG. BRIDGE OF 1 x 5.033 x 2.5 M
EXG.SUMP @ IR KM: 212/729
EXG.LC NO.142 @ IR KM: 212/660
ENGG.SR. CLASS(A), INTERLOCKING
TVU=486.00 Axle 3
EXG.LC NO.142 LC No.142 @ CH: 7+002 OF SPAN 2X9.5A+3.8 M RCC BOX
EXISTING RAILWAYLINE
PROPOSED SUBURBAN ISLAND PLATFORM -200m x 6.2m
PROPOSED SUBURBAN ISLAND PLATFORM -200m x 6.2m
EXISTING TRACK
EXISTING RAILWAYLINE TO BE DIVERTED
EXISTING TRACK
EXISTING TRACK
EXISTING TRACK