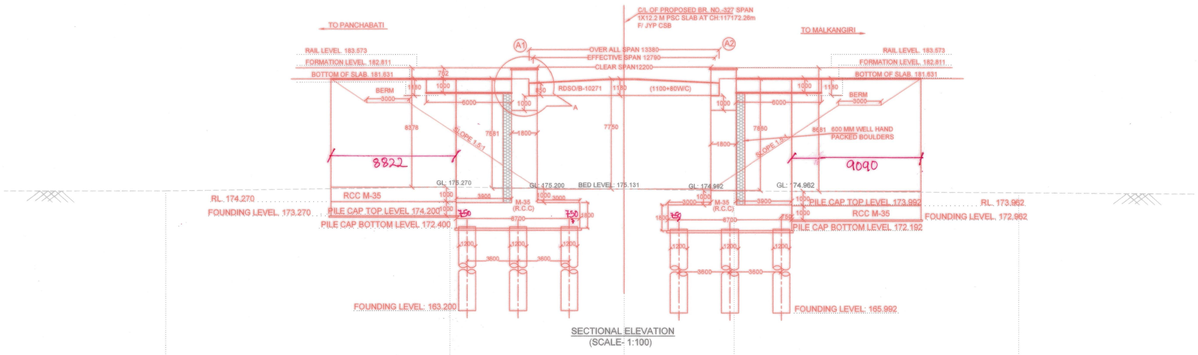
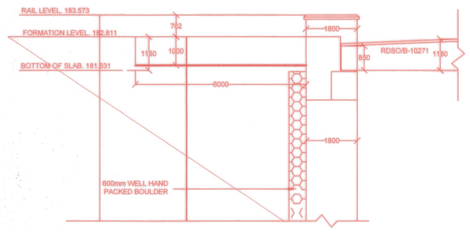
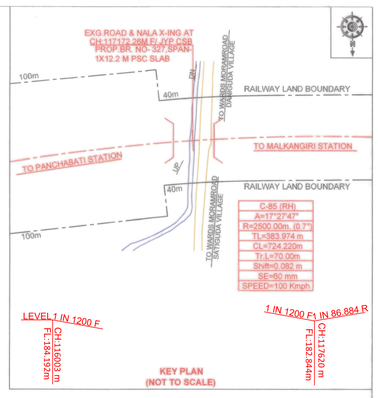


SECTIONAL ELEVATION
(SCALE- 1:100)

FILLING HEIGHT	+7.896	+7.822	+7.750	+7.883	+8.021
FORMATION LEVEL	182.908	182.892	182.881	182.875	182.868
GROUND LEVEL	175.012	175.270	175.131	174.992	174.857
CHAINAGE	117140.00	117160.00	117172.26	117180.00	117200.00

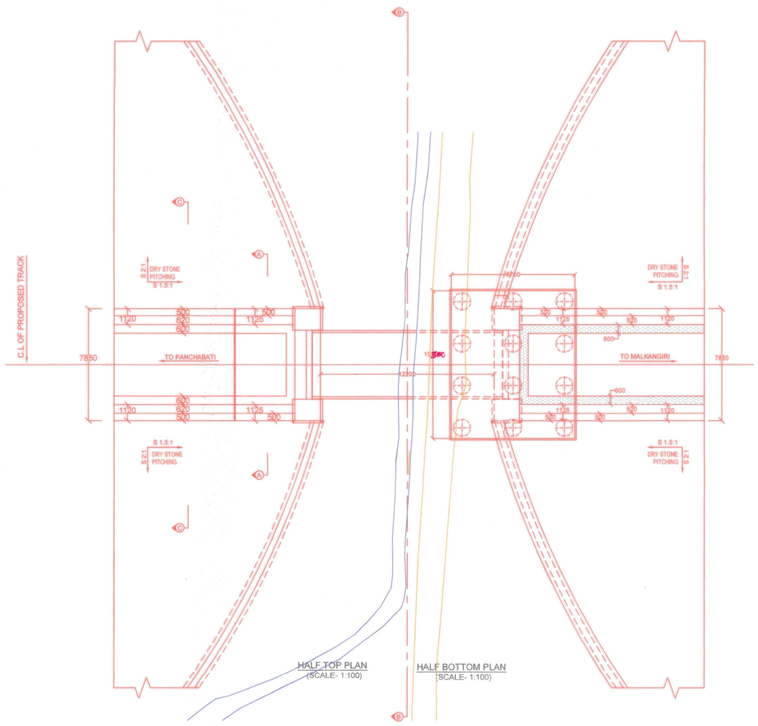


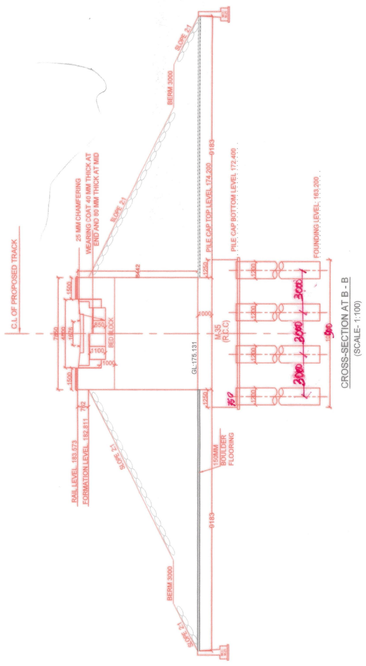
DETAILS OF ABUTMENT AT 'A'
(SCALE- 1:50)



NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRE & ALL LEVELS IN METRE UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED BEFORE EXECUTION.
3. THE DRAWING SHOULD NOT BE SCALED, ONLY DIMENSIONS SHOWN ARE TO BE FOLLOWED.
4. CONCRETE GRADE: I) RCC WORKS - M35 (DESIGN MIX). II) MCC WORKS - M25 (DESIGN MIX).
5. ALL REINFORCEMENT SHOULD BE OF HSDS TMT BARS OF FE-500 D CONFORMING TO IS 1786-2008.
6. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS OF U/S & D/S SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA & GROUND LEVEL).
7. CHAINAGES SHOWN ARE RECKONED FROM CENTER LINE OF JEYPORE STATION BUILDING AS 0.00
8. STANDARD OF LOADING - 25 T LOADING - 2008
9. EXPOSURE CONDITION: SEVERE.
10. CLEAR COVER TO MAIN REINFORCEMENT - 50MM.
11. IN RETAING WALLS, WEEP HOLES TO BE PROVIDED @ 1000 C/C BOTH HORIZONTALLY & VERTICALLY (WITH 1 IN 30 SLOPE) STAGGERED ABOVE LWL.
12. CONCRETE SHALL BE MECHANICALLY MIXED, VIBRATED AND THROUGHLY CURVED.
13. ANGLE OF REPOSE OF BACK FILL SHALL NOT BE LESS THAN 35°.
14. 600MM THICK WELL HAND PACKED BOULDER FILLING OF SHOULD BE PROVIDED BEHIND ABUTMENT & RETURN WALL RESPECTIVELY.
15. BACK FILL SHOULD BE AS PER CLAUSE 7.5 A&C SLIP NO:3 OF IRS BRIDGE SUB-STRUCTURE CODE.
16. DIMENSION TOLERANCE SHALL BE AS PER IRS CONCRETE BRIDGE CODE.
17. LAPPING OF BAR SHOULD BE MINIMISED AND STAGGERED WHEREEVER. MINIMUM LENGTH OF LAP SHALL BE AS GIVEN IN IRS CONCRETE BRIDGE CODE FOR TOR STEEL.
18. ALL RCC SURFACE COMING IN CONTACT WITH SOIL SHOULD BE PAINTED WITH BITUMEN OR COALTAR OF APPROVED QUALITY @1.464 Kg/Sqm.
19. THE FOUNDATION SOIL STRENGTHENING MAY BE TAKEN UP BY SAND/BOULDER FILLING AS PER SITE CONDITION & AS DIRECTED BY ENGINEER-IN-CHARGE.
20. PSC SLAB AS PER RDSO DRG. NO. RDSO/B- 10271 TO 10271/1.
21. PROVISION OF OHE MAST SHALL BE DONE ON AS PER EXTENT POLICY IN THIS REGARDS.
22. DIMENSIONS SHOWN FOR SUBSTRUCTURE ARE TENTATIVE,WHICH MAY CHANGE AFTER FINA DESIGN.
23. CRS SANCTIONED SHOULD BE OBTAINED BEFORE EXCEUTION THE WORK AT SITE IF REQUIRED.
24. ROCK ANCHORING SHALL BE DONE WHERE EVER REQUIRED AS PER PARA 403(2) OF IRBM-1998.
25. THE FOUNDATION DETAILS SHOWN ARE TENTATIVE AND SHALL BE DESIGNED BY DESIGN CELL OF CAO/C/BBS AFTER SOIL EXPLORATION.
26. IRS BRIDGE RULE, IRS CONCRETE BRIDGE CODE, IRS BRIDGE SUBSTRUCTURE CODE WITH UPDATE CORRECTION SLIP SHALL BE FOLLOWED.
27. LOAD TESTING OF SUPER STRUCTURE IS TO BE DONE AS PER IRC : SP : SI.
28. THIS DRAWING IS BASED ON APPROVED DETAILED PLAN AND SECTION:- CE / CON / I / VSKP / JEYPORE-MALKANGIRI / 18 OF 18.

DESIGN CRITERIA
1. IRS BRIDGE RULE 2014 INCORPORATING A&C SLIP NO - 49
2. IRS CONCRETE BRIDGE CODE INCORPORATING LATEST CORRECTION SLIPS.
3. IRS BRIDGE SUBSTRUCTURE & FOUNDATION CODE INCORPORATING LATEST CORRECTION SLIPS.





ABUTMANT -1

RL =175.200 m.

BH-47				
DEPTH	TYPE		SPTN	SBC(T/M²)
0.00	ML			
1.00				
1.50			16	9.17
2.50				
3.00			24	14.56
4.00				
4.50			14	8.96
5.50			-	
6.00			22	14.82
7.00			-	
7.50			21	14.84
8.50			-	
9.00			24	17.77
10.00			-	
10.50			31	23.98
11.50			-	
12.00			38	30.67
13.00			-	
13.50			42	35.30
14.50			-	
15.00			45	39.32
16.00			-	
16.50			49	44.45
17.50			-	
18.00			50	47.03
19.00				
19.50			R	

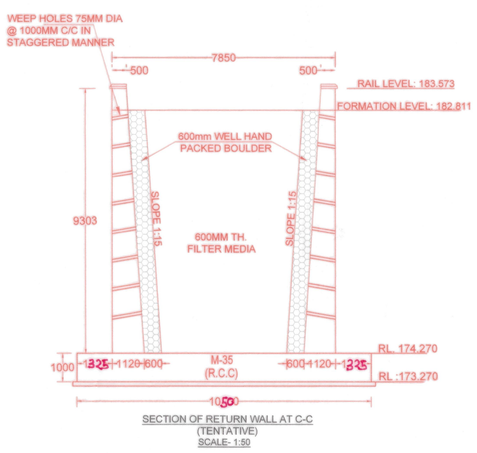
SM- POORLY GRADED MEDIUM DENSE SILTY SAND
SM-SP- POORLY GRADED DENSE SAND WITH SILTY
ML- INORGANIC AND SILTY CLAY OF MEDIUM PLASTICITY

ABUTMANT -2

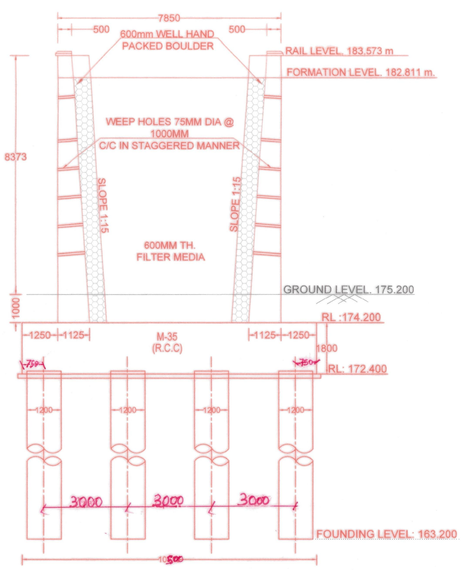
RL =174.992 m.

BH-48				
DEPTH	TYPE		SPTN	SBC(T/M²)
0.00	ML			
1.00				
1.50			23	13.18
2.50				
3.00			33	20.02
4.00				
4.50			16	10.24
5.50			-	
6.00			19	12.80
7.00			-	
7.50			27	19.08
8.50			-	
9.00			33	24.43
10.00			-	
10.50			39	30.17
11.50			-	
12.00			42	33.90
13.00			-	
13.50			44	36.98
14.50			-	
15.00			49	42.82
16.00			-	
16.50			46	41.73
17.50			-	
18.00			R	
19.00				
19.50			R	

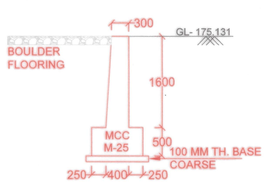
SM- POORLY GRADED MEDIUM DENSE SILTY SAND
SM-SP- POORLY GRADED DENSE SAND WITH SILTY
ML- INORGANIC AND SILTY CLAY OF MEDIUM PLASTICITY



SECTION OF RETURN WALL AT C-C
(TENTATIVE)
SCALE- 1:50



SECTION OF RETURN WALL A-A
AT MAXIMUM HEIGHT(A1 SIDE)
(TENTATIVE)
(SCALE- 1:50)



SECTION OF TOE WALL
(TENTATIVE)
SCALE- 1:25

DRG.NO. CE/CON/I/VSKP/JEYPORE-MALKANGIRI/NEWBG/327/2024		
STANDARD OF LOADING : RAILWAY LOADING (25T-2008)		
EAST COAST RAILWAY (CONSTRUCTION)		
DIVISION:	WALTAIR	
BR.NO-327	PROP.BRIDGE	12.2m PSC SLAB
	LOCATION	CH:117172.26M
PROPOSED BRIDGE NO-327(CH:117172.26M) BETWEEN PANCHABATI-MALKANGIRI IN WALTAIR DIVISION OF EAST COAST RAILWAY		
CONSULTANTS: M/s SATRA SERVICES AND SOLUTIONS PVT. LTD. Corporate Office : 401, Capital Park, Image Garden Lane, Hi-Tech City, Madhapur, Hyderabad, Telangana - 500 081, India.		
Prepared By: M/s ODRA ASSOCIATES PVT. LTD Corporate Office : Plot No, 5841, Chakreisiluni, Near Mangala Mandir, Post - Mancheswar, Mancheswar Road, Bhubaneswar, Khurda, Odisha, India - 751010 Email: odraassociates@gmail.com / info@odraassociates.com Ph: 09439068176/0674-2952715		
SHEET NO :	SHEET SIZE	1000 X 900
SCALE : AS SHOWN	REVISION : R 0	ISSUE DATE :
☐ TENDER ☐ PRELIMINARY ☐ INFORMATION ☑ APPROVAL ☐ CONSTRUCTION		

(A.GOURI SANKAR RAO) CE / C-II / VSKP E.Co.Railway	(B.B MOHARANA) DY.CE/CON/I/KRPU E.Co.Railway	(SANYASI NAIDU) SSE/DRG/CON/VSKP E.Co.Railway
SAIRANJAN PANDA PROJECT INCHARGE	JEEVAN NANDA CHECKED BY	PRACHITA MOHANTY DRAWN BY