MYNAGAPALLY

240.00 m(24*10 spans)

48.10 m(RETAINING WALL PORTION)

NOTES:

1. All dimensions are in millimetres and Levels are in metres.

No dimension shall be scaled from the drawing.

Any discrepancy in the drawings to be brought to the notice of the

Engineer.
4. All RCC works are to be done as per IRC code of practice read with

All R.C. Works are to be onor as per INC. code or practice read with Southern railway Specification for Materials & Works 1969.
 Grade of concrete to be adopted as recommended below:

 M20 grade concrete for levelling course below pile cap.
 M45 grade concrete for construction of Superstructure & Pier cap.
 M35 grade concrete for the construction of Pile cap, Pier,

Abutment and Wearing Coat. iv) M35 grade concrete for the construction of Piles. v) M45 grade concrete for all RCC works in the

superstructure of composite section.

6. Minimum cement content fori) M20 grade concrete - 310 kg/cum.
ii) M35 grade concrete - 380 kg/cum.
iii) M45 grade concrete - 380 kg/cum.
iv) For Piles - 400 kg/cum.
iv) For Piles - 400 kg/cum.
iv) M20 grade concrete - 0.45
ii) M35 grade concrete - 0.45
ii) M35 grade concrete - 0.40
iii) M45 grade concrete - 0.40
iii) M45 grade concrete - 0.40
iii) M5 grade concrete - 0.40
iii) M5 grade concrete - 0.40
iv) For Piles - 0.45
8. Use 53 / 43 grade Ordinary Portland cement conforming to IS 12269:
1987 or IS 8112: 1989.
Reinforcement steel shall be CRS bars of grade Fe 500 conforming to IS

8. Use 53 / 43 grade Ordinary Portland cement conforming to IS 12269: 1987 or IS 8112: 1989.

9. Reinforcement steel shall be CRS bars of grade Fe 500 conforming to IS :1786 (PartI).

10. Bar bending shall conform to IS: 2502.

11. Development length (Lid) shall be 46 times diameter of bars.

12. Minimum Lap length (Lid) shall be 60 x d where 'd' is the diameter of smaller bar. The spacing of Transverse reinforcement shall not be more than 150m at the locations where bars are lapped. Not more than 50% of bars shall be lapped at any section.

13. 12. 7mm nominal dia. low relavation strands as per IS 14268:1995 shall be used for pre stressing.

14. Structural details of Composite girder for the superstructure is as per the RDSO drawing RDSO(P=11758/R.

15. All structural steel members shall be Corrosion Resistant Steel and tested for quality, conform to IS: 2062 (Latest).

16. Structural steel to be painted with one coat of primer (conforming with anti corrossive paint) after fabrication and another coat of primer and two coats of anti corrossive paint after erection.

18. Minimum clear cover to any reinforcement shall be 50mm for all the members except for Piles. For Piles Clear cover to any reinforcement shall be 57mm.

shall be /smm.

8. All members are designed for relevant IRC codes.

19. PVC Drainage spout and collection pit assembly shall be provided at suitable locations.

20. Initial pile load test shall be done for one pile as per IS: 2911 (Part-4)

to assess pile capacity.

21. Routine pile load test shall be done for one pile as per IS: 2911 (Part-4)

Coordinates

Easting Northing

N=-405.69

N=-386.03

N=-370.63

N=-357.16 N=-345.32

N=-335.18

N=-326.81

N=-320.04

N=-311.53

N=-305.00

N=-298.07

N=-288.07

N=-274.73

N=-258.38

N=-239.44

N=-218.74

N=-197.90

N=-177.05

N=-156.20

N=207.527

E=1871.813 N=316.585

E=2037.39

E=2023.75

E=2005.39

E=1985.54

E=1942.94

E=1920.45

214.3 E=1897.42

269.58 E=1844.23

389.58 E=1747.30

437.58 E=1723.25

461.58 E=1711.35

485.58 E=1699.48

22 TBM 3 E=1879.179 N=323.579 TBM 4 E=2059.143 N=396.294

Koutine pile load test shall be done for one pile as per is: 2911 (Part to ensure working pile capacity.
 Borehole bottom shall be well flushed to remove all slush and other loose materials before laying the tremi concrete.
 The Minimum slump for the pile concrete shall be 150-170mm. If necessary add suitable plastiszers to get the required slump.
 Strip seal Type Expansion Joint shall be used.
 All the Bearings shall be of POT cum PTFE / NEOPRENE Bearings.

Chainage

46.3

70.3

94.3

118.3

142.3 166.3

190.3

317.58

365.58

10

17

18

19

9 245.58 E=1867.32

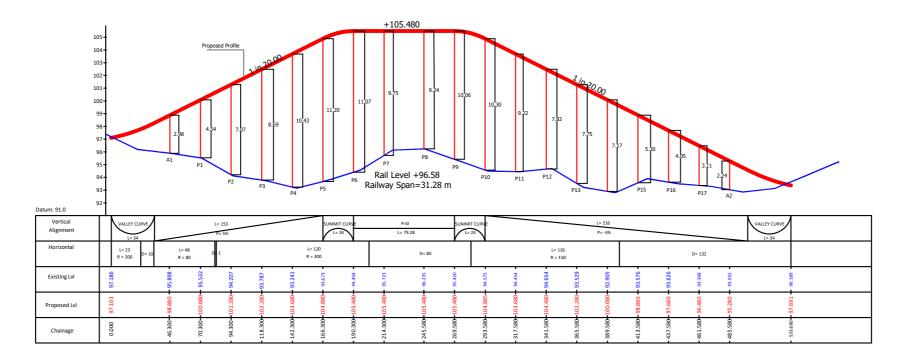
11 293.58 E=1821.26

13 341.58 E=1779.56

16 413.58 E=1735.15

20 TBM 1 E=1741.980

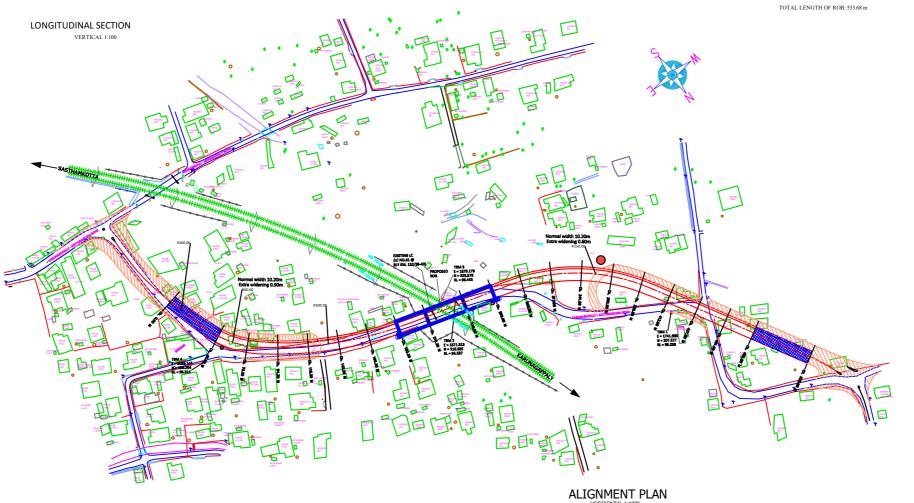
TBM 2



31.28 m(RLY PORTION)

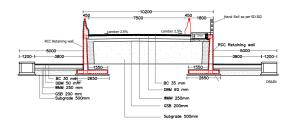
168.00 m(24* 7 m spans)

46.30 m(RETAINING WALL PORTION)

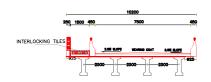


50 250 1500 650 INTERLOCKING TILES

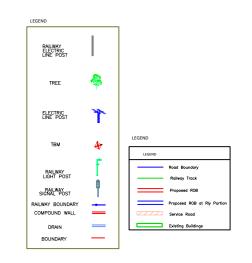
TYPICAL CROSS SECTION AT APPROACH (TRESTLE)
PORTION (24.00 M SPAN)



TYPICAL CROSS SECTION AT APPROACH ROAD (RETAINING WALL PORTION)



TYPICAL CROSS SECTION AT MIDSPAN (24.00 M SPAN)



г				Drawn:		CLIENT:	DRUCK 1+4			
ш				Checked:		l ((RDDCK Ltu.		
1				Approved:			(A Government of Kerala Undertaking) M.V.ROAD, PALARIVATTOM, KOCHI-682 03			
1						CONSULTANT	T.C. 7/768(25), Kesavapuram Lane, Maruthankuthy, Karhirampara P.O. Thiruvananthapuram - 695 030			
1				Date:						
L				SCALE:						
	REVISION					TITLE:	TLE: GENERAL ARRANGEMENT DE			
This drawing is the property of ISA and is to be used only for the purpose for which it was lent and must not be in only way						DRG No.:	RBDCK/ISA/LC No.61/GAD		SHEET No. 1/2	