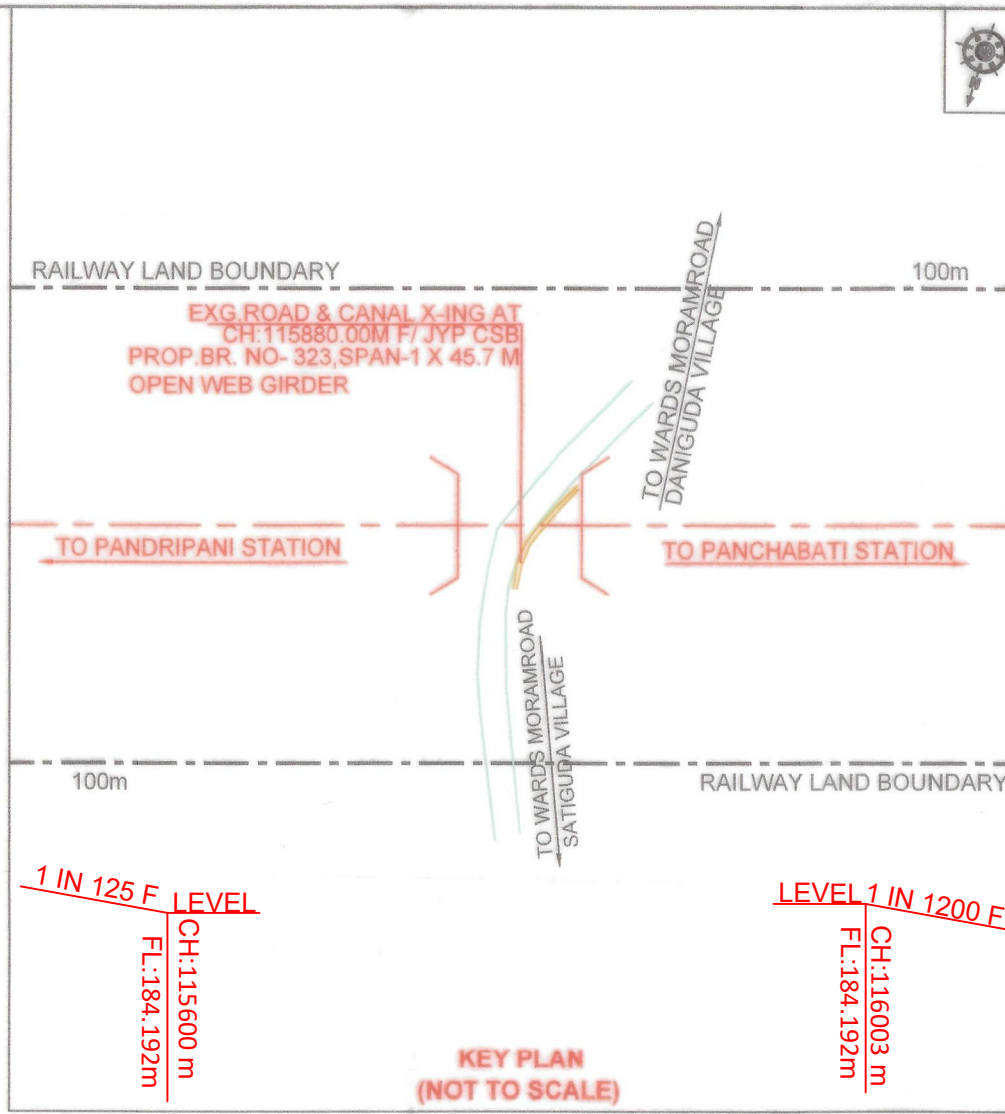
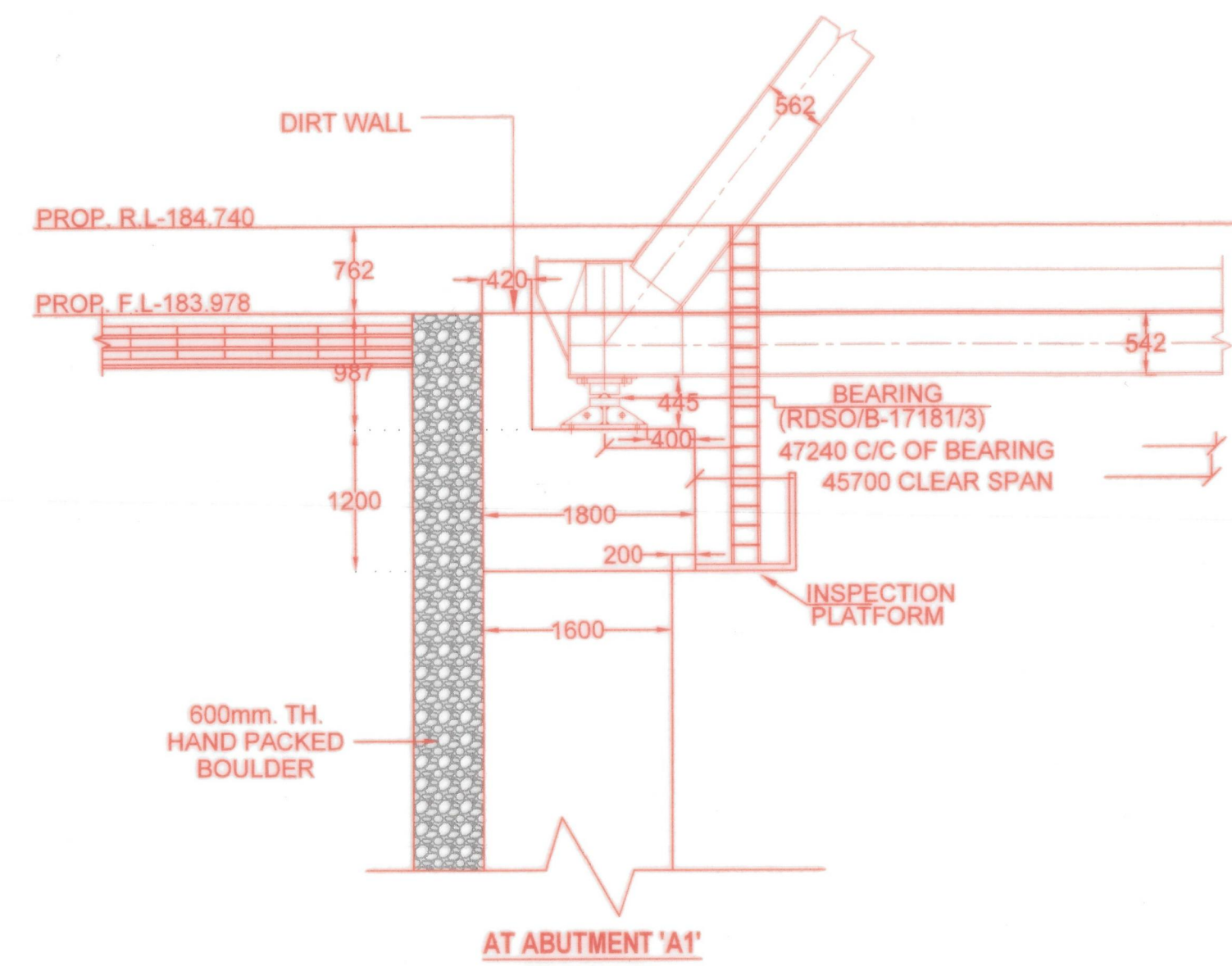


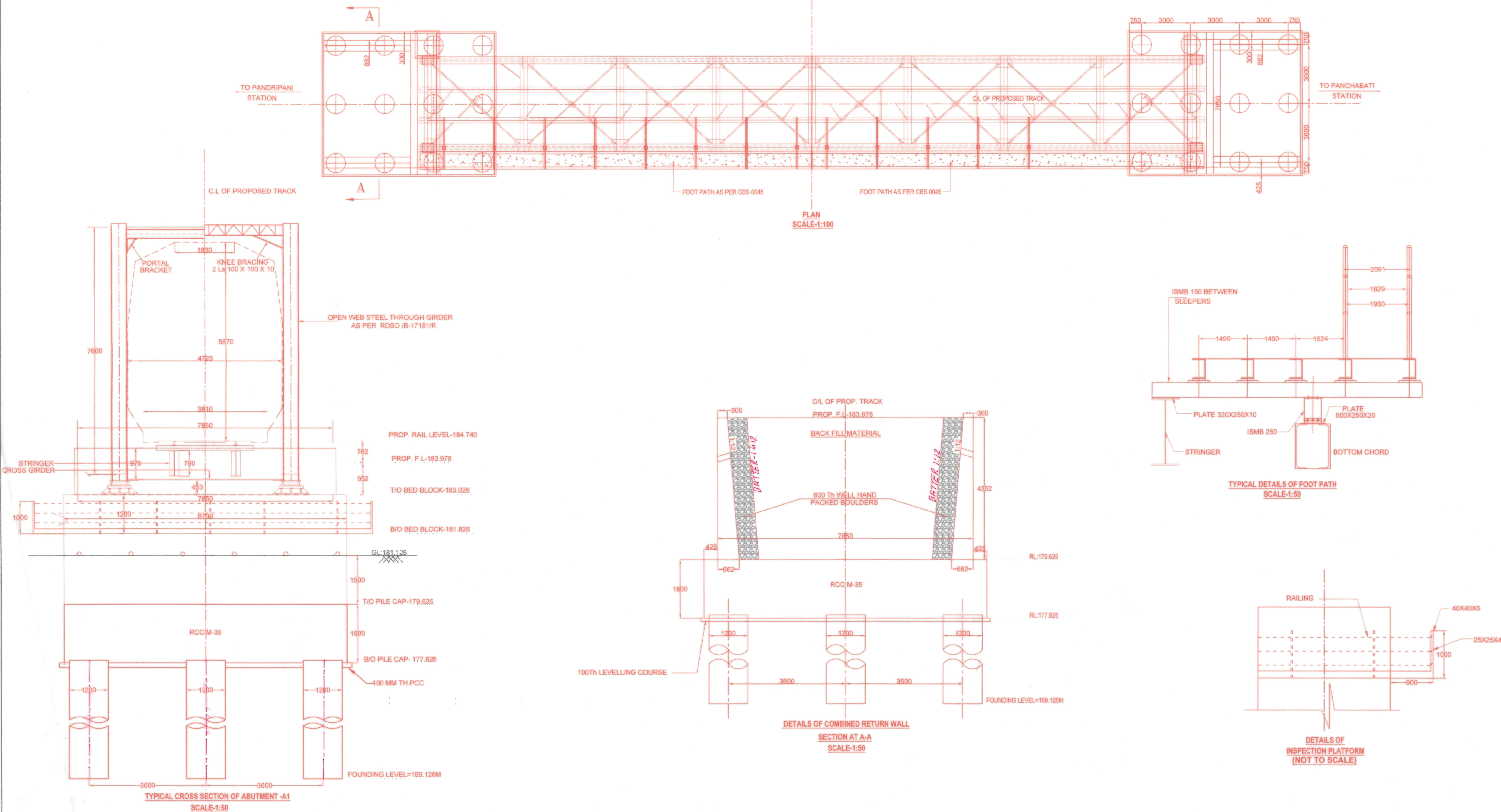
FILLING HEIGHT	+2.851	+3.003	+2.898
FORMATION LEVEL	183.992	183.998	183.925
GROUND LEVEL	181.341	181.088	181.837
CHAINAGE	115540	115860	115920



#### NOTES-1 (GENERAL): -

- ALL DIMENSIONS ARE IN MILLIMETER & ALL LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED. NO DIMENSION SHALL BE SCALED FROM THIS DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE:
  - ABUTMENT = 50MM
  - FOUNDATION = 75MM
  - WING WALL = 50MM
- DESIGN CRITERIA:
  - IRS BRIDGE RULES-2014 (INCORPORATING LATEST CORRECTION SLIPS AS ON DATE)
  - IRS CONCRETE BRIDGE CODE (INCORPORATING LATEST CORRECTION SLIPS AS ON DATE)
  - IRS BRIDGE SUBSTRUCTURE & FOUNDATION CODE, (2nd REVISION-2013) (INCORPORATING LATEST CORRECTION SLIPS AS ON DATE)
- FOR SUPERSTRUCTURE DETAILS REFER RDSO DRG. NO RDSO/B-17181/R. FOR BEARING DETAILS REFER RDSO DRG. NO RDSO/B-17181/3.
- LOADING STANDARD: 25 T. AXLE LOAD.
- EXPOSURE CONDITION: SEVERE
- CONCRETE GRADE:
  - ALL RCC WORKS - M-35/45 (DESIGN MIX)
  - ALL MCC WORKS - M-25 (DESIGN MIX)
  - LEVELING COURSE - C.C-1:2:4
  - SKIN REINFORCEMENT TO BE PROVIDED FOR RETAINING WALL.
- HS/D/T/MT BARS CONFORMING TO IS-1786-2008 SHALL BE USED AS REINFORCEMENT. GRADE OF REINFORCEMENT IS Fe-500 / Fe-500D.
- INSPECTION PLATFORM WILL BE PROVIDED AT ABUTMENTS.
- RDSO LETTER NO CBS/DBR/IMP/POLICY dtd. 02.11.2017 HAS BEEN FOLLOWED FOR PREPARING THE GAD.
- THE PROPOSED RAIL LEVEL AND THE FORMATION LEVEL HAVE BEEN CHECKED WITH RESPECT TO THE APPROVED L-SECTION. SAME SHOULD BE VERIFIED BY ENGINEER-IN-CHARGE BEFORE EXECUTION OF WORK.
- SUITABILITY OF THE FOUNDATION PRESSURE SHALL BE CHECKED AS PER SITE CONDITION.
- BACK FILL MATERIAL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE & FOUNDATION CODE. ANGLE OF INTERNAL FRICTION OF BACKFILL SHALL NOT BE LESS THAN 35.
- ALL RCC SURFACES COMING IN CONTACT WITH SOIL SHOULD BE PAINTED WITH BITUMEN OR COAL-TAR OF APPROVED QUALITY @ 1.464 KG/SQM.
- TOLERANCE SHALL BE FOLLOWED AS PER IRS CONCRETE BRIDGE CODE.
- DEPTH & SIZE OF FOUNDATION, LENGTH OF RETURN WALL SHALL BE DECIDED BASED ON-SITE CONDITION AND AS PER IRS SUBSTRUCTURE CODE.
- DIMENSIONS SHOWN FOR RETURN WALL ARE TENTATIVE, WHICH MAY CHANGE AFTER FINAL DESIGN AS PER ARTICLE 20 OF SP-13 - IRC-2004 AND IRS SUB-STRUCTURE CODE.
- TYPE OF FOUNDATION IS TENTATIVE AND MAY CHANGE DURING DETAIL DESIGN.
- NECESSARY TOE WALL SHALL BE PROVIDED WITH PROPER PITCHING.
- NO CONSTRUCTION JOINT SHALL BE NORMALLY ALLOWED IN CONCRETE WORKS WITHOUT SPECIAL PRECAUTIONS AS PER RELEVANT BRIDGE CODE.
- ALL CONCRETE WORK SHALL BE MECHANICALLY MIXED AND VIBRATED.
- MIX DESIGN SHALL BE APPROVED BY ENGINEER IN CHARGE.
- CURING SHALL BE DONE AS PER CLAUSE 8.4 OF IRS CONCRETE BRIDGE CODE.
- BRIDGE DETAILS LIKE INSPECTION STEPS, PAINTINGS ETC. SHOULD BE FOLLOWED AS PER BRIDGE MANUAL DURING CONSTRUCTION.
- PILES ARE BORED CAST IN SITU AND THEIR CONSTRUCTION SHALL CONFIRM TO RELEVANT CLAUSES OF IS-2911 (PART 1/ SEC 2) AND IRC-78-2000.
- FINISHED PILE HEAD AFTER CUT - OFF SHALL BE 75MM MINIMUM INTO PILE CAP FOR ANCHORAGE.
- BOTH VERTICAL AND HORIZONTAL INITIAL AND ROUTINE LOAD TEST SHALL BE CARRIED OUT IN PILE AS PER IS: 2911 (PART-IV) FOR CONFIRMING DESIGN LOAD CARRYING CAPACITY OF PILE.
- ALL SAFETY NORMS SUCH AS PROVISION OF BARRICADING THE EXISTING TRACK DURING THE PERIOD OF THE CONSTRUCTION SHOULD BE ENSURED. (JOINT SAFETY CIRCULAR 01/2014 DT. 18.03.2014)
- THIS DRAWING IS BASED ON APPROVED DETAILED PLAN AND SECTION:-  
CL / CON / I / VSKP / JEYPORE-MALKANGIRI / 17 OF 18.
- THE TRANSITION SYSTEM ON BRIDGE APPROACH ARE PROVIDED AS PER DRG. No.GE/SK/GL/912A/Rev.0/2024

DETAILS OF	PROPOSED BRIDGE
1. LOADING STANDARD	25T AXLE LOADING
2. ALIGNMENT	STRAIGHT
3. GRADE	1 IN 1200 F
4. SIZE OF BRIDGE	1 X 45.7 m C.G
5. DESIGN DISCHARGE	175.33 Cumecs
6. VERTICAL CLEARANCE	0.929 m
7. FREE BOARD	3.216 m
8. FOUNDATION	PILE

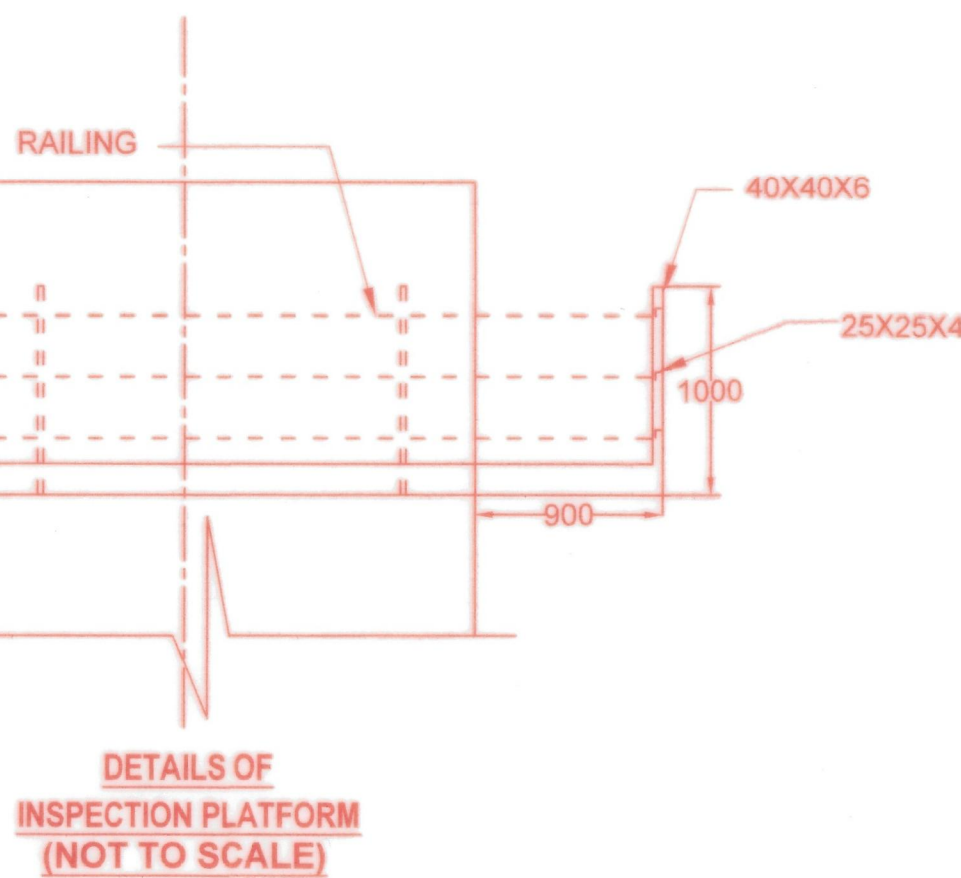
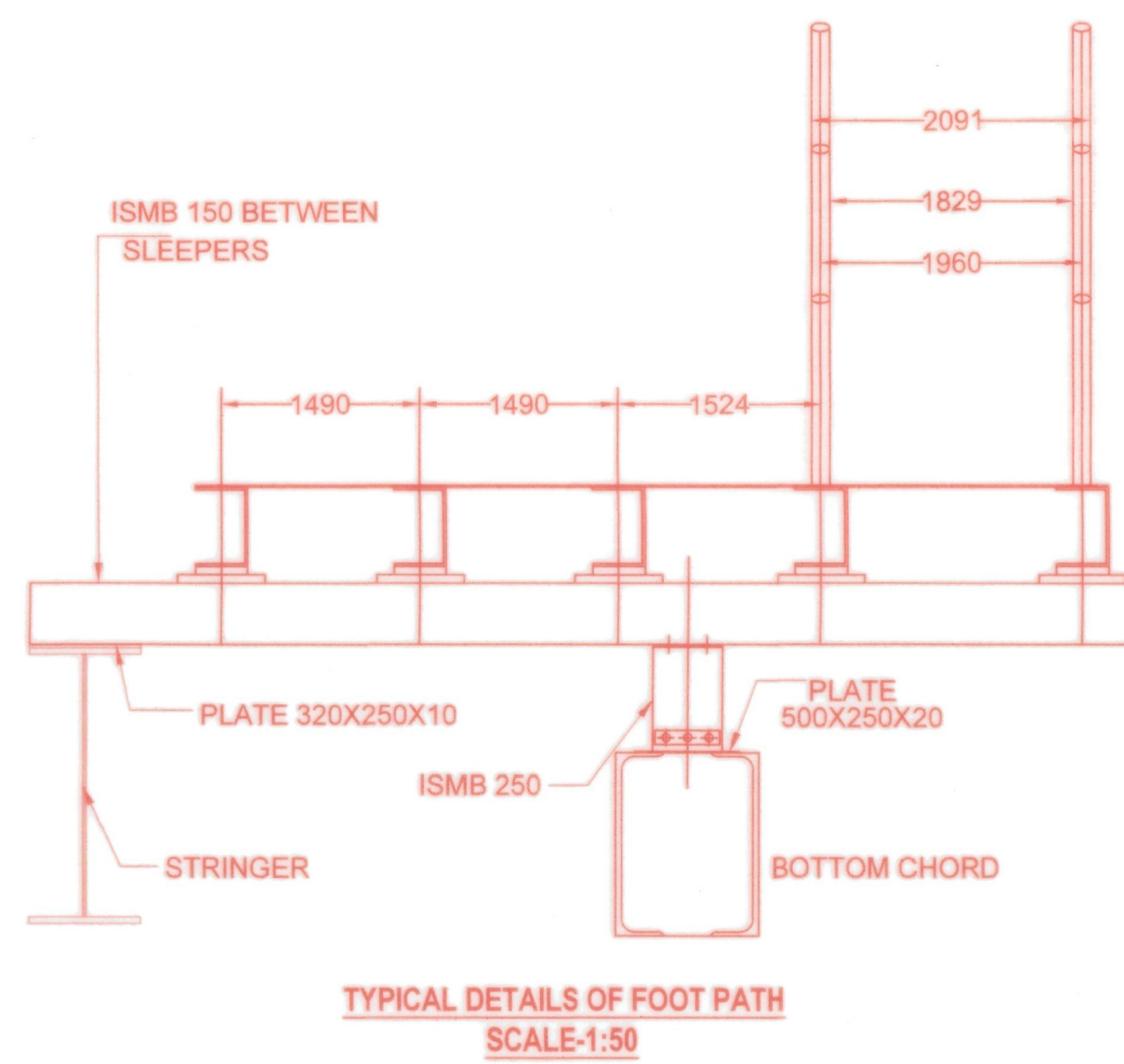


ABUTMENT - 1			
DEPTH	TYPE	SPTN	SBC(T/M²)
0.00	SM	-	-
1.00	SM	-	-
1.50	SM	49	28.09
2.50	SM	-	-
3.00	SM-SP	74	44.89
4.00	SM	-	-
4.50	SM	R	-
5.50	SM	R	-
6.00	SM	R	-
7.00	SM	R	-
7.50	SM	R	-
8.50	SM	-	-
9.00	SM	-	-
10.50	SM	-	-
12.00	SM	-	-
13.50	SM	-	-
15.00	SM	-	-
16.50	SM	-	-
18.00	SM	-	-

SM- POORLY GRADED  
MEDIUM DENSE SILTY SAND  
SM-SP- POORLY GRADED  
DENSE SAND WITH SILTY  
CALCULATED SBC VALUE OF SOIL  
AS PER REPORT IS 22.50 t/m²

ABUTMENT - 2			
DEPTH	TYPE	SPTN	SBC(T/M²)
0.00	SM	-	-
1.00	SM	-	-
1.50	SM	43	24.65
2.50	SM	-	-
3.00	SM-SP	77	46.71
4.00	SM	-	-
4.50	SM	R	-
5.50	SM	R	-
6.00	SM	R	-
7.00	SM	R	-
7.50	SM	R	-
8.50	SM	-	-
9.00	SM	-	-
10.50	SM	-	-
12.00	SM	-	-
13.50	SM	-	-
15.00	SM	-	-
16.50	SM	-	-
18.00	SM	-	-

SM- POORLY GRADED  
MEDIUM DENSE SILTY SAND  
SM-SP- POORLY GRADED  
DENSE SAND WITH SILTY  
CALCULATED SBC VALUE OF SOIL  
AS PER REPORT IS 22.50 t/m²



#### SECTION AT A-A SCALE-1:50

#### DETAILS OF INSPECTION PLATFORM (NOT TO SCALE)

DRG.NO.: CE/CON/VSKP/JEYPORE-MALKANGIRI/NEWBG/323/2024			
STANDARD OF LOADING : RAILWAY LOADING (25T-2008)			
DIVISION: WALTAIR			
BR.NO-323	PROP.BRIDGE LOCATION	1 X 45.7 M OPEN WEB GIRDER CH:115880.00M	
PROPOSED BRIDGE NO-323(CH:115880.00M) BETWEEN PANDRIPANI-PANCHABATI 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, Chakrasani, Near Mangala Mandir, Post - Manchewar, Manchewar Road, Bhubaneswar, Khurda, Odisha, India - 751010 Email: odraassociates@gmail.com / info@odraassociates.com Ph: 09439068176/0674-2952715			
SHEET NO : 1		SHEET SIZE 1400 X 900	
SCALE : AS SHOWN		REVISION : R 0	
ISSUE DATE :		ISSUE DATE :	
<input type="checkbox"/> TENDER <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> INFORMATION <input checked="" type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION		<input type="checkbox"/> TENDER <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> INFORMATION <input checked="" type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION	
SAIRAMJAN PANDA PROJECT INCHARGE		RAKESH MOHANTY DRAWN BY	