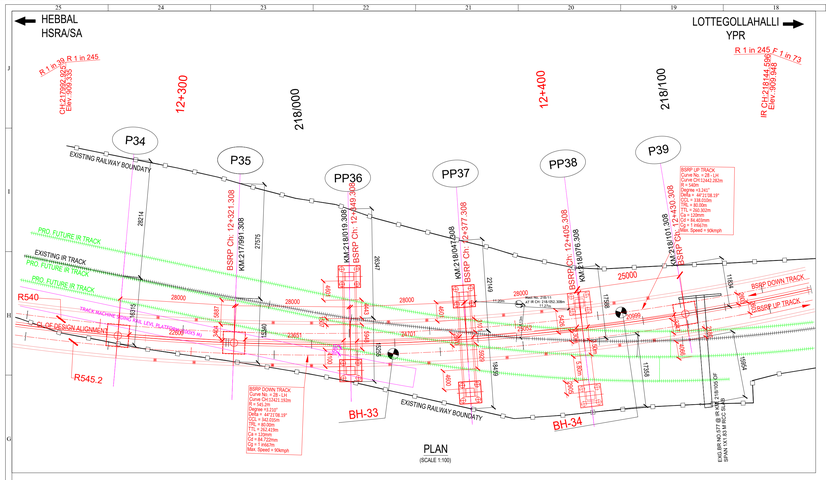
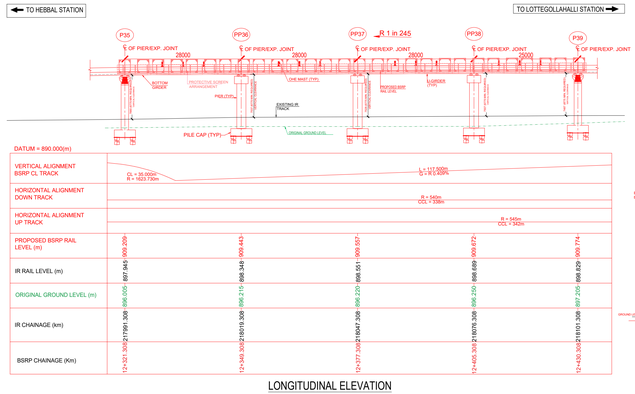




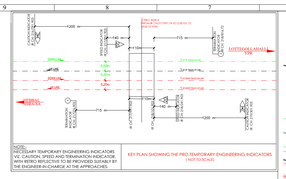
LONGITUDINAL ELEVATION
(SCALE - VER - 1:82 & HORIZ - 1:100)

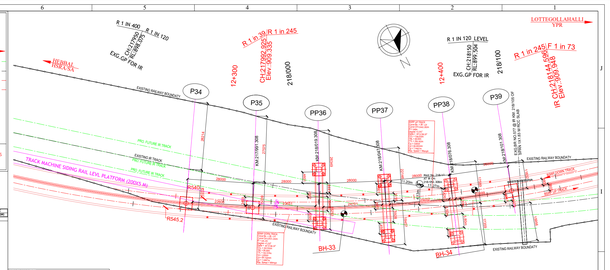
ABBREVIATIONS :

C/L	-	CENTER LINE
TYP.	-	TYPICAL
CHAINAGE	-	CHAINAGE
BRIDGE	-	BRIDGE
SQ	-	SQUARE DIMENSION
PROP	-	PROPOSED
EXIST	-	EXISTING
BH	-	BORE HOLE

PILE CAPACITY DETAILS:

PORTAL PIERS	VERTICAL (TONNES)	HORIZONTAL (TONNES)
PP36	976	97
PP37	976	97
PP38	976	97





KEY PLAN
(NOT TO SCALE)

KEY PLAN NOTE:-
1. ALL DIMENSIONS ARE SHOWN IN RD.
2. RAILWAY BOUNDARY DISTANCE ARE WITH RESPECT TO IR TRACK IN CURVE PORTION.
3. IR TRACK IS CURVE PORTION.

BORE HOLE ID (BH33)

STRATA DESCRIPTION	DEPTH IN METERS	RESILIENT 'N' VALUES
FILLED UP SOIL	0.00	N = 10 (SPT)
	1.50	
STIFF SANDY CLAY	1.50	N = 12 (SPT)
	3.00	
STIFF SILT	3.00	N = 12 (SPT)
	4.50	
MEDIUM DENSE SANDY SILT	4.50	N = 16 (SPT)
	6.00	
DENSE SOFT SANDY	6.00	N = 21 (SPT)
	7.50	
HARD SILT	7.50	N = 25 (SPT)
	9.00	
MEDIUM DENSE TO VERY DENSE SOFT SAND	9.00	N = 28 FOR HARD (SPT)
	10.50	
	10.50	N = 30 FOR HARD (SPT)
	12.00	
	12.00	N = 32 FOR HARD (SPT)
	13.50	
	13.50	N = 34 FOR HARD (SPT)
	15.00	
	15.00	N = 36 FOR HARD (SPT)
	16.50	
	16.50	N = 38 FOR HARD (SPT)
	18.00	
	18.00	N = 40 FOR HARD (SPT)
	19.50	
	19.50	N = 42 FOR HARD (SPT)
	21.00	
DENSE TO VERY DENSE SOFT SAND WITH TRACES OF ROCK	21.00	N = 44 FOR HARD (SPT)
	22.50	
	22.50	N = 46 FOR HARD (SPT)
	24.00	
	24.00	N = 48 FOR HARD (SPT)
	25.50	
	25.50	N = 50 FOR HARD (SPT)
	27.00	
	27.00	N = 52 FOR HARD (SPT)
	28.50	
	28.50	N = 54 FOR HARD (SPT)
	30.00	
	30.00	N = 56 FOR HARD (SPT)
	31.50	
	31.50	N = 58 FOR HARD (SPT)
	33.00	
	33.00	N = 60 FOR HARD (SPT)
	34.50	
	34.50	N = 62 FOR HARD (SPT)
	36.00	
	36.00	N = 64 FOR HARD (SPT)
	37.50	
	37.50	N = 66 FOR HARD (SPT)
	39.00	
	39.00	N = 68 FOR HARD (SPT)
	40.50	
	40.50	N = 70 FOR HARD (SPT)
	42.00	
	42.00	N = 72 FOR HARD (SPT)
	43.50	
	43.50	N = 74 FOR HARD (SPT)
	45.00	
	45.00	N = 76 FOR HARD (SPT)
	46.50	
	46.50	N = 78 FOR HARD (SPT)
	48.00	
	48.00	N = 80 FOR HARD (SPT)
	49.50	
	49.50	N = 82 FOR HARD (SPT)
	51.00	
	51.00	N = 84 FOR HARD (SPT)
	52.50	
	52.50	N = 86 FOR HARD (SPT)
	54.00	
	54.00	N = 88 FOR HARD (SPT)
	55.50	
	55.50	N = 90 FOR HARD (SPT)
	57.00	
	57.00	N = 92 FOR HARD (SPT)
	58.50	
	58.50	N = 94 FOR HARD (SPT)
	60.00	
	60.00	N = 96 FOR HARD (SPT)
	61.50	
	61.50	N = 98 FOR HARD (SPT)
	63.00	
	63.00	N = 100 FOR HARD (SPT)
	64.50	
	64.50	N = 102 FOR HARD (SPT)
	66.00	
	66.00	N = 104 FOR HARD (SPT)
	67.50	
	67.50	N = 106 FOR HARD (SPT)
	69.00	
	69.00	N = 108 FOR HARD (SPT)
	70.50	
	70.50	N = 110 FOR HARD (SPT)
	72.00	
	72.00	N = 112 FOR HARD (SPT)
	73.50	
	73.50	N = 114 FOR HARD (SPT)
	75.00	
	75.00	N = 116 FOR HARD (SPT)
	76.50	
	76.50	N = 118 FOR HARD (SPT)
	78.00	
	78.00	N = 120 FOR HARD (SPT)
	79.50	
	79.50	N = 122 FOR HARD (SPT)
	81.00	
	81.00	N = 124 FOR HARD (SPT)
	82.50	
	82.50	N = 126 FOR HARD (SPT)
	84.00	
	84.00	N = 128 FOR HARD (SPT)
	85.50	
	85.50	N = 130 FOR HARD (SPT)
	87.00	
	87.00	N = 132 FOR HARD (SPT)
	88.50	
	88.50	N = 134 FOR HARD (SPT)
	90.00	
	90.00	N = 136 FOR HARD (SPT)
	91.50	
	91.50	N = 138 FOR HARD (SPT)
	93.00	
	93.00	N = 140 FOR HARD (SPT)
	94.50	
	94.50	N = 142 FOR HARD (SPT)
	96.00	
	96.00	N = 144 FOR HARD (SPT)
	97.50	
	97.50	N = 146 FOR HARD (SPT)
	99.00	
	99.00	N = 148 FOR HARD (SPT)
	100.50	
	100.50	N = 150 FOR HARD (SPT)
	102.00	

BORE HOLE ID (BH34)

STRATA DESCRIPTION	DEPTH IN METERS	RESILIENT 'N' VALUES
FILLED UP SOIL	0.00	N = 10 (SPT)
	1.50	
MEDIUM DENSE SANDY SILT	1.50	N = 12 (SPT)
	3.00	
STIFF SILT	3.00	N = 12 (SPT)
	4.50	
MEDIUM DENSE SANDY SILT	4.50	N = 16 (SPT)
	6.00	
DENSE SOFT SANDY	6.00	N = 21 (SPT)
	7.50	
HARD SILT	7.50	N = 25 (SPT)
	9.00	
DENSE SOFT SAND WITH TRACES OF ROCK	9.00	N = 28 FOR HARD (SPT)
	10.50	
	10.50	N = 30 FOR HARD (SPT)
	12.00	
	12.00	N = 32 FOR HARD (SPT)
	13.50	
	13.50	N = 34 FOR HARD (SPT)
	15.00	
	15.00	N = 36 FOR HARD (SPT)
	16.50	
	16.50	N = 38 FOR HARD (SPT)
	18.00	
	18.00	N = 40 FOR HARD (SPT)
	19.50	
	19.50	N = 42 FOR HARD (SPT)
	21.00	
DENSE SOFT SAND WITH TRACES OF ROCK	21.00	N = 44 FOR HARD (SPT)
	22.50	
	22.50	N = 46 FOR HARD (SPT)
	24.00	
	24.00	N = 48 FOR HARD (SPT)
	25.50	
	25.50	N = 50 FOR HARD (SPT)
	27.00	
	27.00	N = 52 FOR HARD (SPT)
	28.50	
	28.50	N = 54 FOR HARD (SPT)
	30.00	
	30.00	N = 56 FOR HARD (SPT)
	31.50	
	31.50	N = 58 FOR HARD (SPT)
	33.00	
	33.00	N = 60 FOR HARD (SPT)
	34.50	
	34.50	N = 62 FOR HARD (SPT)
	36.00	
	36.00	N = 64 FOR HARD (SPT)
	37.50	
	37.50	N = 66 FOR HARD (SPT)
	39.00	
	39.00	N = 68 FOR HARD (SPT)
	40.50	
	40.50	N = 70 FOR HARD (SPT)
	42.00	
	42.00	N = 72 FOR HARD (SPT)
	43.50	
	43.50	N = 74 FOR HARD (SPT)
	45.00	
	45.00	N = 76 FOR HARD (SPT)
	46.50	
	46.50	N = 78 FOR HARD (SPT)
	48.00	
	48.00	N = 80 FOR HARD (SPT)
	49.50	
	49.50	N = 82 FOR HARD (SPT)
	51.00	
	51.00	N = 84 FOR HARD (SPT)
	52.50	
	52.50	N = 86 FOR HARD (SPT)
	54.00	
	54.00	N = 88 FOR HARD (SPT)
	55.50	
	55.50	N = 90 FOR HARD (SPT)
	57.00	
	57.00	N = 92 FOR HARD (SPT)
	58.50	
	58.50	N = 94 FOR HARD (SPT)
	60.00	
	60.00	N = 96 FOR HARD (SPT)
	61.50	
	61.50	N = 98 FOR HARD (SPT)
	63.00	
	63.00	N = 100 FOR HARD (SPT)
	64.50	
	64.50	N = 102 FOR HARD (SPT)
	66.00	
	66.00	N = 104 FOR HARD (SPT)
	67.50	
	67.50	N = 106 FOR HARD (SPT)
	69.00	
	69.00	N = 108 FOR HARD (SPT)
	70.50	
	70.50	N = 110 FOR HARD (SPT)
	72.00	
	72.00	N = 112 FOR HARD (SPT)
	73.50	
	73.50	N = 114 FOR HARD (SPT)
	75.00	
	75.00	N = 116 FOR HARD (SPT)
	76.50	
	76.50	N = 118 FOR HARD (SPT)
	78.00	
	78.00	N = 120 FOR HARD (SPT)
	79.50	
	79.50	N = 122 FOR HARD (SPT)
	81.00	
	81.00	N = 124 FOR HARD (SPT)
	82.50	
	82.50	N = 126 FOR HARD (SPT)
	84.00	
	84.00	N = 128 FOR HARD (SPT)
	85.50	
	85.50	N = 130 FOR HARD (SPT)
	87.00	
	87.00	N = 132 FOR HARD (SPT)
	88.50	
	88.50	N = 134 FOR HARD (SPT)
	90.00	
	90.00	N = 136 FOR HARD (SPT)
	91.50	
	91.50	N = 138 FOR HARD (SPT)
	93.00	
	93.00	N = 140 FOR HARD (SPT)
	94.50	
	94.50	N = 142 FOR HARD (SPT)
	96.00	
	96.00	N = 144 FOR HARD (SPT)
	97.50	
	97.50	N = 146 FOR HARD (SPT)
	99.00	
	99.00	N = 148 FOR HARD (SPT)
	100.50	
	100.50	N = 150 FOR HARD (SPT)
	102.00	

BORE HOLE ID (BH34)

GRADE OF CONCRETE

COMPONENTS	GRADE
i. U-GIRDER	M50
ii. PORTAL PIER	M40
iii. PORTAL BEAM, DIAPHARMS & PEDESTRIAL	M40
iv. PIPE & PILE CAP	M35
v. PCC LEVELING COURSE	M15
vi. FILLING IN BETWEEN TWO PRECAST POST TENSIONED U-GIRDER	M 60

DEPTH OF CONSTRUCTION

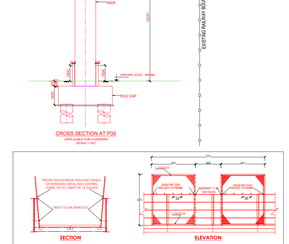
SPECIFICATION		THICKNESS
I.	RAIL 60 kg	172mm
II.	GR PAD	10mm
III.	CONCRETE TRACK	329mm
IV.	U-GIRDER SUB THICKNESS	255 mm
	TOTAL	766mm

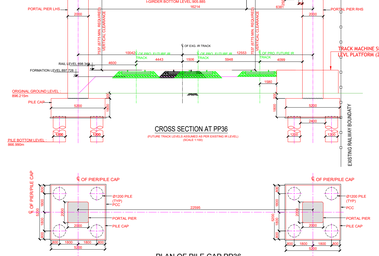
TRACK DETAILS (PRO.BOR-2)

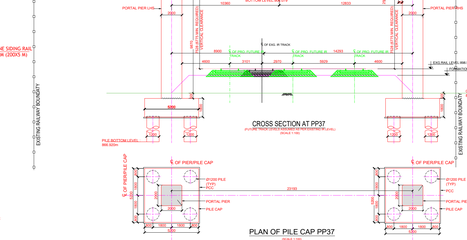
LOADING	-	17.5 AXLE LOAD 2008-STD
ALIGNMENT	-	CURVE
GRADE	-	R 1 IN 245

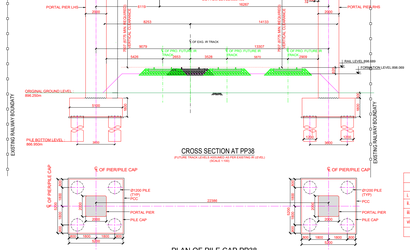
TRACK DETAILS (EXG.IR TRACK)

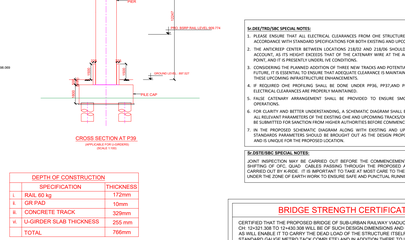
LOADING	-	MBG-1987
ALIGNMENT	-	R 1 IN 120
GRADE	-	CURVE

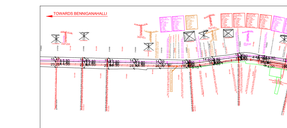












NOTE:

TYPICAL PROTECTIVE SCREENING ARRANGEMENT

1. CONTINUOUS PROTECTIVE SCREEN AS PER IEDO, ESC/GI&I-xx/DU-CIR WHICHEVER IS LATEST.
2. THE METHOD OF FIXING SHALL BE DECIDED TO SUIT THE LOCAL SITE CONDITION.
3. THE PROTECTIVE SCREEN MAY BE FIXED IN VERTICAL POSITION WHEN THERE IS NO OBSTRUCTION EITHER INSIDE OR OUTSIDE.

BRIDGE STRENGTH CERTIFICATE:

CERTIFIED THAT THE PROPOSED BRIDGE OF SUBURBAN RAILWAY VIADUCT BETWEEN BSRP KM 218/076.308 TO BSRP KM 218/101.308 HAS BEEN DESIGNED FOR THE LOADING WHICH AS WILL ENABLE IT TO CARRY THE DEAD LOAD OF THE STRUCTURE ITSELF (INCLUDING THIN STANDARD GAUGE METRO TACK COMPLETE) AND IN ADDITION THERE TO LIVE LOAD EQUIVALENT OF 17T LOADING OF MODERN ROLLING STOCK(MBG) PRESCRIBED IN THE BSRP DESIGN BASIS REPORT (DBR) AT FULL SPEED.

ALSO CERTIFIED THAT HEAVIEST LOADS WHICH THE BRIDGE WILL HAVE TO CARRY WILL NOT BE IN EXCESS OF THE ABOVE STANDARDS OF LOADING AT THE STIPULATED SPEED AND WILL NOT CAUSE ANY STRESS IN ANY MEMBERS OR PORTION OF THE STRUCTURE IN EXCESS OF MAXIMUM PERMISSIBLE STRESSES LAID DOWN IN THE BSRP DESIGN REPORT (DBR) AND INDIAN RAILWAY STANDARD (IRS) CODE OF PRACTICE.

GENERAL CONSULTANT | GAW-RIDE

LEGENDS:

P	=	SINGLE PIER	
PP	=	PORTAL PIER	
COLOUR CODE BLACK	=		EXISTING R BOUNDARY
COLOUR CODE BLACK	=		EXISTING WORKS
COLOUR CODE RED	=		PROPOSED BSRP WORKS
COLOUR CODE GREEN	=		PROPOSED IR WORKS

SI NO	ALTERATION NO	DESCRIPTION	SIGNATURE OF OFFICER

X-RIDE		DATE	SWR- BANGALORE DIVISION		DATE
MANAGER/CIVIL/PLANNING			SR/DEN/S/SBC		
GM/ELEX/CK-RIDE			SR.DEN/CO-ORD/SBC		
GM/CIVIL/PLANNING/C-2			SR.DEE/TRD/SBC		
GM/DESIGN			SR.DOM		
DIRECTION/PROJECT & PLANNING			SR.DSTE		
GC BSRP SIGNATURES		DATE	ADRM/T/SBC		
			DRM/SBC		
			SWR- HEADQUARTERS		DATE
			JE/BRIDGE/HQ		
PE/GC FOR BSRP			AXEN/HQ/UBL		
PD/GC FOR BSRP			DY.CE/HQ/UBL		
			CBE/UBL		

MODUS OPERANDI:-

1) IMPOSE SPEED NON STOP 20 KM/PH SPEED RESTRICTION AS PER IRPWM DULY FIXING TEMPORARY SPEED RESTRICTIONS INDICATORS AS PER SKETCH.
2) EXCAVATE THE EARTH TO REQUIRED DEPTH AND DIMENSIONS.
3) PROVIDE THE SHORING ARRANGEMENTS WHEREVER REQUIRED.
4) CONSTRUCT RCC PILE FOUNDATIONS, PILE CAP AND PIER AS PER APPROVED STRUCTURAL DESIGN AND DRAWING.
5) PRECAST PORTAL BEAMS SEPARATELY AND TRANSPORT IT TO THE LOCATION USING TRAILERS. ALL THE NECESSARY APPROVAL FROM STAKE HOLDERS SHALL BE OBTAINED PRIOR TO TRANSPORTATION OF PRECAST PORTAL BEAMS.
6) ERECT THE PRECAST PIER CAP/PORTAL BEAMS AND CAST THE INTERMEDIATE DIAPHARMS AND PEDESTAL AS PER APPROVED STRUCTURAL DESIGN AND DRAWING. ALL THE SEPARATE DRAWINGS SHOWING THE DETAILED ERECTION SEQUENCE AND CONSTRUCTION METHODOLOGY SHALL SUBMITTED SEPARATELY FOR APPROVAL. SHUTDOWN WILL TAKEN DURING ERECTION OF PORTAL BEAMS.
7) PLACE THE PRECAST U-GIRDER AS APPROVED DRAWING BY USING LAUNCHING GIRDER AND CONNECT THE GIRDERS WITH PIER CAP.
8) RESTORATION OF IR TRAFFIC TO NORMAL SPEED BY KRIDE, RESTORE NORMAL SPEED IN STAGES GRADUALLY AS PER PARA 238(2) OF IRPWM. RAILWAY ELECTRIFICATION INSTALLATIONS WILL BE SHIFTED AS PER REQUIREMENT AT SITE. FOR WHICH NECESSARY POWER BLOCK TO BE PROVIDED.

SPECIAL NOTES: ALL THE FOLLOWING SAFETY MEASURES SHALL BE FOLLOWED:-

A. ADEQUATE SAFETY MEASURES FOR RUNNING TRAINS SHALL BE ADOPTED, WHILE EXECUTION OF BRIDGE WORKS BELOW THE TRACK.
B. DURING CONSTRUCTION OF BRIDGE, EXISTING TRACK SHALL BE PROTECTED SUITABLY BY PROVIDING TEMPORARY SPEED RESTRICTION BY PROVIDING TEMPORARY ENGINEERING INDICATORS.
C. DURING THE CONSTRUCTION OF THE PROPOSED BRIDGE, PROPER SAFETY ARRANGEMENTS SHALL BE MADE WHILE EXECUTING CLOSE TO THE EXISTING TRACK, BY PROVIDING SAFETY BARRICADING.
D. THE GRADUAL RELEASE OF SPEED RESTRICTION SHALL BE AS PER PARA 637 (1) (F) OF IRPWM - 2020.
E. NECESSARY SHORING ARRANGEMENTS IF REQUIRED TO BE MADE TO PROTECT EXISTING TRACK. MINIMUM CLEARANCE OF 8.175m SHALL BE MAINTAINED BETWEEN TRACK LEVEL AND BOTTOM MOST RETURN WALLS ETC.
F. JOINT PROCEDURE ORDER ON SAFETY RELATED ISSUES PERTAINING TO WORK SITE IN CONSTRUCTION.
G) PROJECTS (JPO NO. W.33/SW/SAFETY PRECAUTION, DT: 18.02.2011) ISSUED VIDE CTE (P)/BNC on SAFETY AT WORK SHOT DT: 20.06.2017 HAS TO BE STRICTLY FOLLOWED.
H) DURING EXECUTION OF WORK THE MATERIAL/EQUIPMENT SUCH AS RELEASED MATERIAL ETC. SHOULD NOT INFRINGE THE TRAIN TRAFFIC. ALL SAFETY MEASURES TO BE TAKEN BY ENGINEER IN CHARGE DURING EXECUTION.
I) DISMANTLING OF EXISTING PROTECTIVE WORKS, SUCH AS PITCHING, RETURN WALL, ETC TO BE DONE AS PER SITE CONDITION DULY TAKING ALL THE SAFETY PRECAUTIONS AND INDICATING TO GOK.IR/DEN AUTHORITIES WELL IN ADVANCE.

SPECIAL NOTES FOR 25KV AC TRACTION SYSTEM:-

1) NECESSARY PROTECTIVE ARRANGEMENT SHALL BE MADE BY CONTRACTOR IN CONSULTATION WITH KRIDE AND GC TO AVOID ANY ELECTRICAL INDUCTION DURING EXECUTION OF WORK.
2) DURING ANY WORK INVOLVING LESS THAN 2.5M WORKING CLEARANCE FROM OHE, THE WORK SHALL BE CARRIED OUT ONLY DURING POWER BLOCK CONDITION BY OBTAINING PERMISSION TO WORK FROM AUTHORIZED TRD BRANCH OFFICIALS.
3) ONE TRACTION CONDUCTORS SHALL BE PROFILED TO GET MAXIMUM CONTACT WIRE HEIGHT WITH NORMAL ELECTRICAL CLEARANCE AFTER COMPLETION OF WORK BY OLTRC.
4) ALL OHE PROFILING WORKS, GIRDERS ERECTION, CT., WILL BE DONE UNDER THE SUPERVISION OF SI(ELC)/TND UNDER POWER BLOCK CONDITIONS.
5) CROSS BEAM TO BE EARTHED WITH PIER, AS IT IS RUNNING ABOVE 25kV OHE LINE.

SPECIFICATIONS:

1. BRIDGE WILL BE DESIGNATED FOR 17 T AXLE LOADING.
2. THE BRIDGE SHALL BE DESIGNED AND CONSTRUCTED AS PER THE IRS CODES WILL PREVAIL ON OTHER CODES FOLLOWING ORDER OF PREFERENCE SHALL BE FOLLOWED
   - INDIAN RAILWAY UNIFIED STANDARD SPECIFICATIONS FOR WORKS AND MATERIALS 2010.
   - IRS BRIDGE SUBSTRUCTURE CODE 2013(REVISED) WITH UP TO DATE CORRECTIONS SLIP.
   - IRS BRIDGE SUBSTRUCTURE & FOUNDATION CODE 2013
   - IRS STEEL BRIDGE CODE.
   - IRS WELDED BRIDGE CODE
   - SPECIFICATION FOR FABRICATION AERECTION
   - IRS CONCRETE BRIDGE CODE
   - IRS BRIDGE MANUAL 1998 WITH UP TO DATA CORRECTIONS.
   - (SEISMIC ZONE-II CONFIRMING TO I.S:1893-2002.
   - (BRIDGE WILL BE DESIGNED CONSIDERING SEISMIC ZONE-II.
   - IURSOO-2022 SHALL REFERRED FOR INFRINGEMENT.
3. THE FOUNDATION FOR THE PROPOSED PIER/ABUTMENT BOULDER, CONSISTS OF WELL & PACKED BOULDERS CONSLED TO THICKNESS NOT LESS THAN 600MM WITH SMALLER SIZE TOWARDS THE BACK.BEHIND THE BOULDERS FILLING BACK FILL MATERIAL SHALL GRANULAR MATERIAL GW,GP,GW,GWITH AS PER I.S:11466-1973.
4. CLEAR COVER FOR REINFORCING BARS SHOULD BE AS PER CLAUSE NO.15.9.2 OF IRS CONCRETE BRIDGE CODE.
   - UPPER AND PIER CAP =50MM
   - 6 PILE AND PILE CAP=75MM
   - PCC =40MM
5. HIGH YIELD STRENGTH DEFORMED/ THERMO MECHANICAL TREATED (TMT) BARS OF GRADE FE:500/550 CONFIRMING TO IS:1786-2008 SHALL BE USED AS REINFORCEMENT.
6. ALL THE WELDED CONNECTIONS ARE CONTINUOUS FILLET WELD TYPE UNLESS OTHERWISE STATED.
7. ALL WELDS TO BE MADE BY USING APPROVED PROCEDURES AND BY QUALIFIED WELDS ONLY.

GENERAL NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS IN METERS & CHAINAGE ARE IN KILOMETERS, UNLESS OTHERWISE NOTED.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. STANDARDS COLOUR CODES- FOR EXISTING BLACK, PROPOSED IRED, FUTURE GREEN AND DISMANTLING YELLOW ETC AS PER THE WORK MANUAL.
4. THE DIMENSIONS OF EACH STRUCTURAL ELEMENT IN THE GAD ARE ONLY TENTATIVE AND FOLLOW APPROVED DESIGN AND DRAWING OF EACH STRUCTURAL COMPONENT.
5. RAIL LEVEL, FORMATION LEVELS, ETC. SHOULD BE CROSS VERIFIED BY THE ENGINEER-IN-CHARGE BEFORE PRIOR TO TRANSPORTATION OF PRECAST PORTAL BEAMS.
6. ERECT THE PRECAST PIER CAP/PORTAL BEAMS AND CAST THE INTERMEDIATE DIAPHARMS AND PEDESTAL AS PER APPROVED STRUCTURAL DESIGN AND DRAWING. ALL THE SEPARATE DRAWINGS SHOWING THE DETAILED ERECTION SEQUENCE AND CONSTRUCTION METHODOLOGY SHALL SUBMITTED SEPARATELY FOR APPROVAL. SHUTDOWN WILL TAKEN DURING ERECTION OF PRECAST PORTAL BEAMS.
7. PLACE THE PRECAST U-GIRDER AS APPROVED DRAWING BY USING LAUNCHING GIRDER AND CONNECT THE GIRDERS WITH PIER CAP.
8. RESTORATION OF IR TRAFFIC TO NORMAL SPEED BY KRIDE, RESTORE NORMAL SPEED IN STAGES GRADUALLY AS PER PARA 238(2) OF IRPWM. RAILWAY ELECTRIFICATION INSTALLATIONS WILL BE SHIFTED AS PER REQUIREMENT AT SITE. FOR WHICH NECESSARY POWER BLOCK TO BE PROVIDED.
9. IMPOSE SPEED NON STOP 20 KMPH SPEED RESTRICTION AS PER IRPWM DULY FIXING TEMPORARY SPEED RESTRICTIONS INDICATORS AS PER SKETCH.
10. EXCAVATE THE EARTH TO REQUIRED DEPTH AND DIMENSIONS.
11. PROVIDE THE SHORING ARRANGEMENTS WHEREVER REQUIRED.
12. CONSTRUCT RCC PILE FOUNDATIONS, PILE CAP AND PIER AS PER APPROVED STRUCTURAL DESIGN AND DRAWING.
13. DIMENSIONAL DETAILS OF FOUNDATIONS STRUCTURAL PARTS ARE ONLY INDICATIVE AND TO FOLLOW ONLY AFTER APPROVAL OF DETAILED DRAWINGS.
14. GUARD RAIL SHALL BE PROVIDED AS PER STANDARD DRAWING.
15. THE WORK WILL BE DONE IN RAILWAY BOUNDARY DURING THE SPEED RESTRICTION.
16. THIS ARRANGEMENT SHOWN IS FOR GAD PURPOSE ONLY. FOR EXECUTION DETAILS WORKING DRAWING SHALL BE SUBMITTED FOR EACH COMPONENT.
17. MINIMUM VERTICAL CLEARANCE OF 8.175m SHALL BE MAINTAINED BETWEEN TRACK LEVEL AND BOTTOM MOST RETURN WALLS ETC.
18. WORK WITHIN RAILWAY LAND SHALL BE CARRIED OUT UNDER THE SUPERVISION OF RAILWAY ENGINEERS.
19. EXCAVATION OF ROCK SHALL BE DONE ONLY IN PRESENCE OF RAILWAY AUTHORIZED REPRESENTATIVE TO ENSURE THE SAFETY OF RUNNING TRAINS.
20. PROCEDURE FOR CONTROLLED BLASTING EXCAVATION FOR PILE FOUNDATION NEARER TO EXISTING RAILWAY TRACK, IF THE DEPTH OF EXCAVATION IS MORE THAN 1.5m PROPER SHORING & STRUTTING WILL BE DONE CONSIDERING SHAPE & SIZE OF FOUNDATION.
21. CONCRETE SHALL BE CONTROLLED CONCRETE OF SPECIFIED GRADES.
22. ANY SUBMISSION OR DISCREPANCY IS TO BE BROUGHT TO THE NOTICE OF AUTHORITY. PRIOR TO ACTUAL EXECUTION.
23. TRACK SHOULD BE PROTECTED BY ANY SUITABLE METHOD IF REQUI