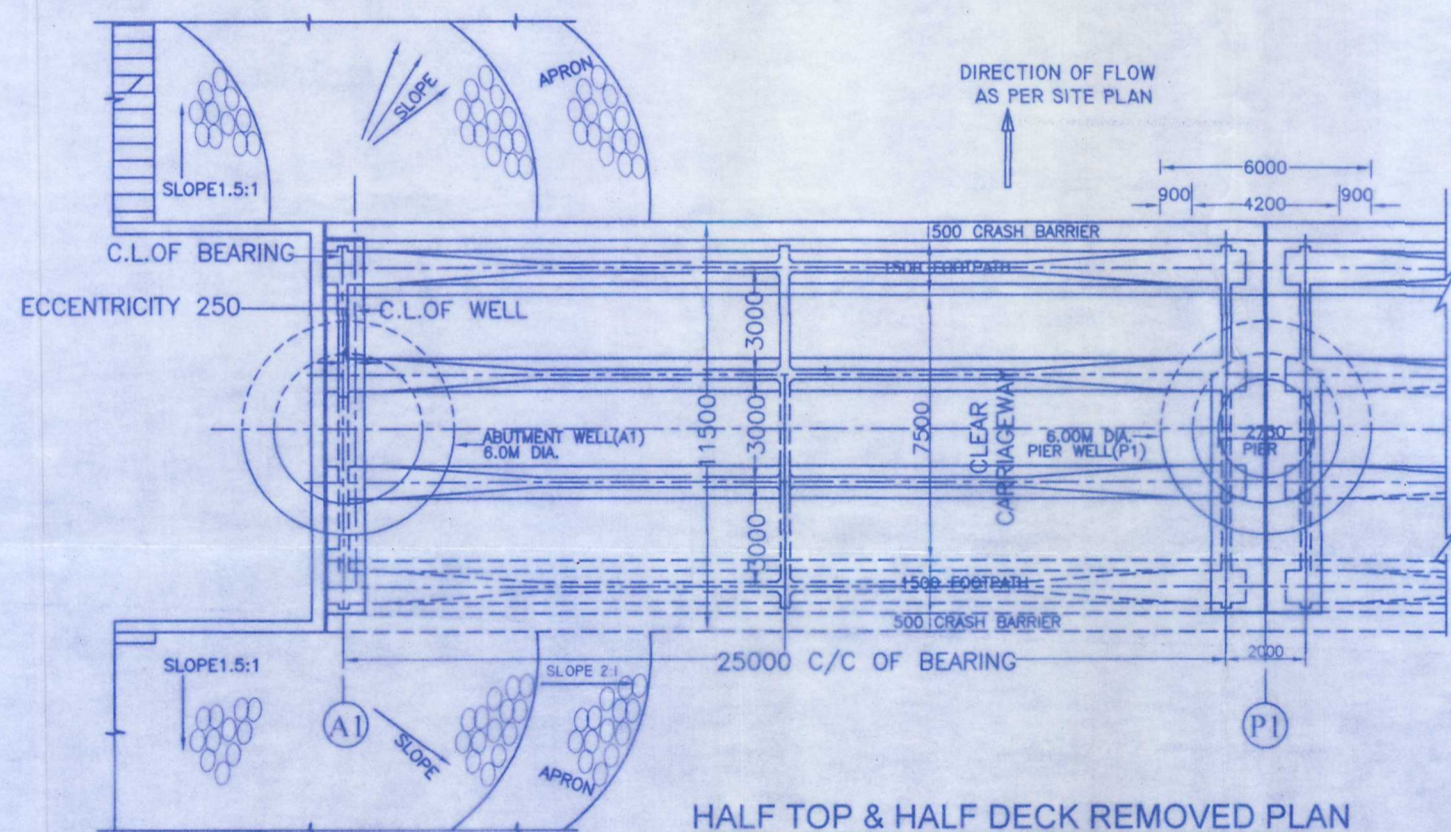
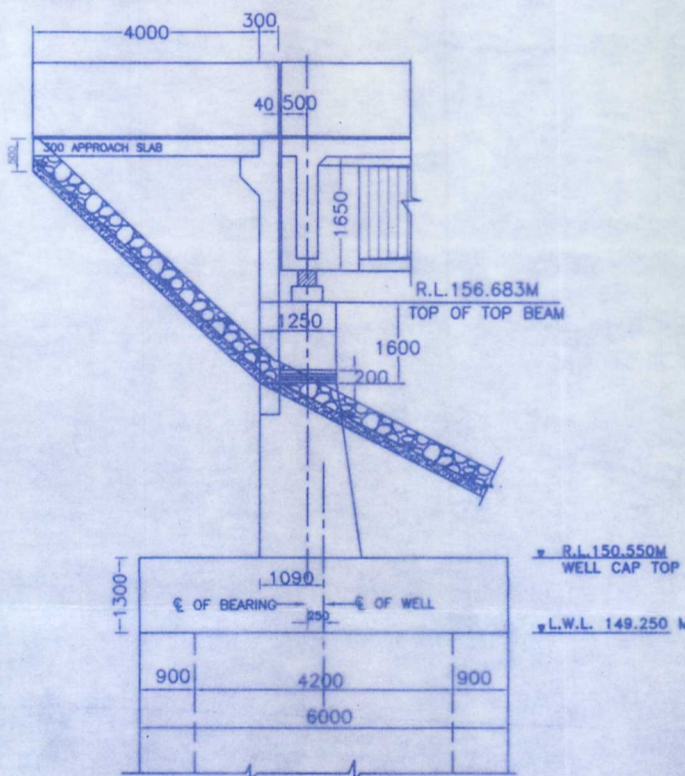


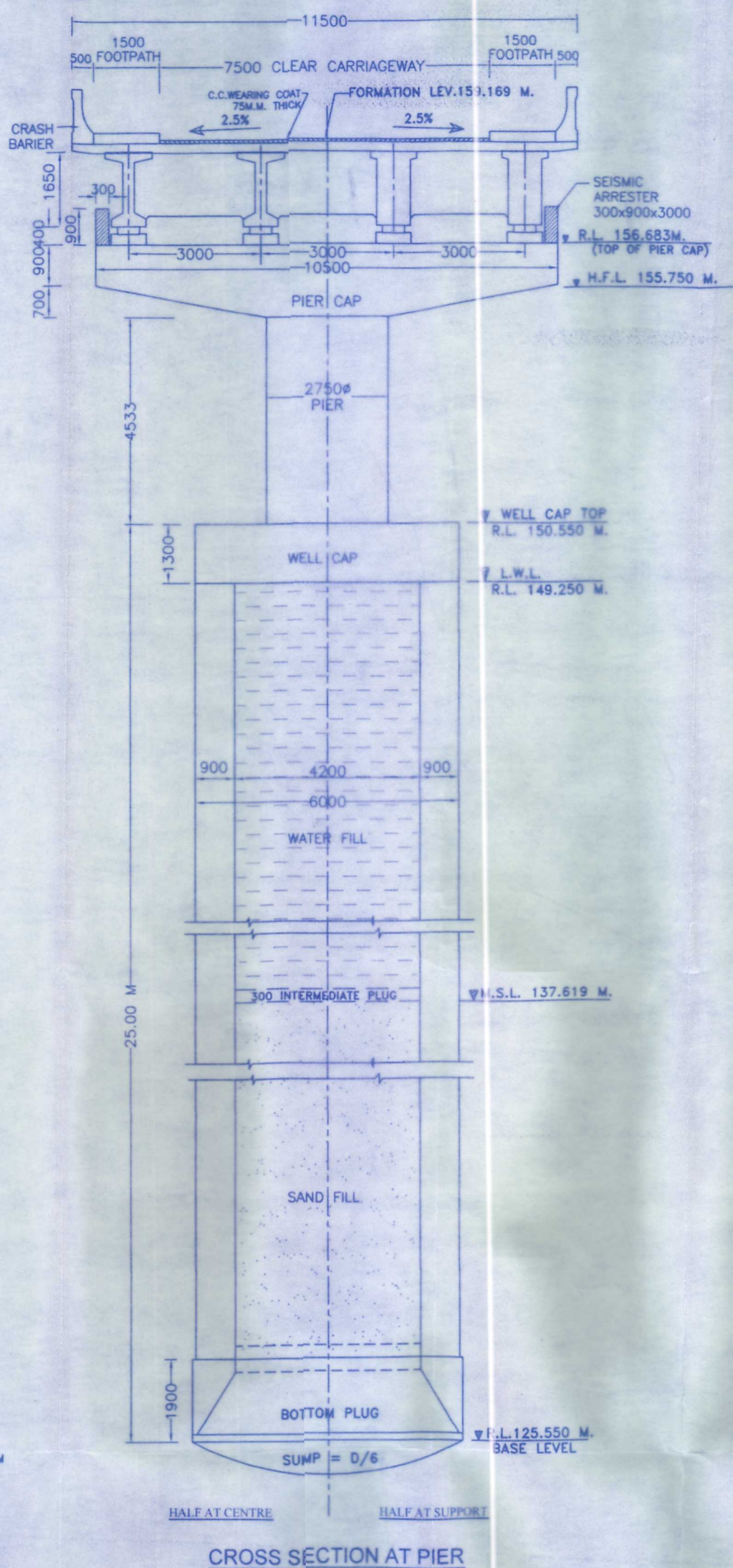
CROSS SECTION OF P.S.C. BEAM



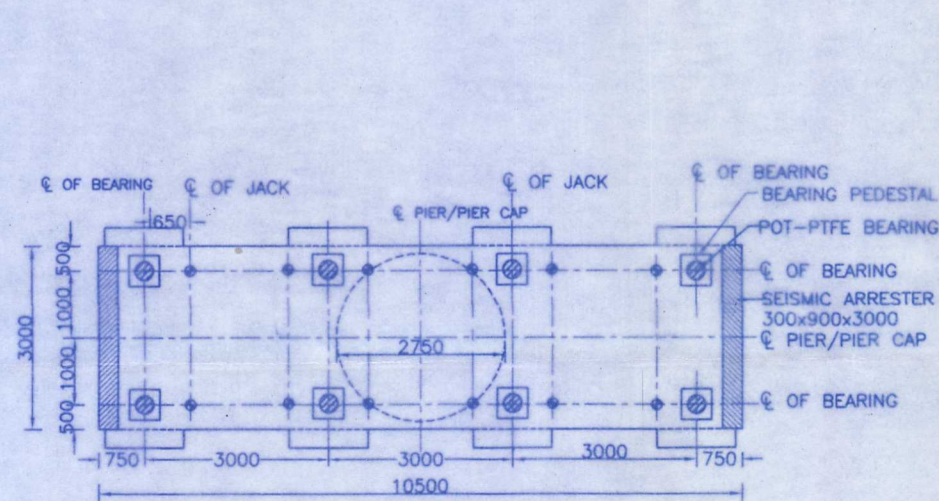
HALF TOP & HALF DECK REMOVED PLAN



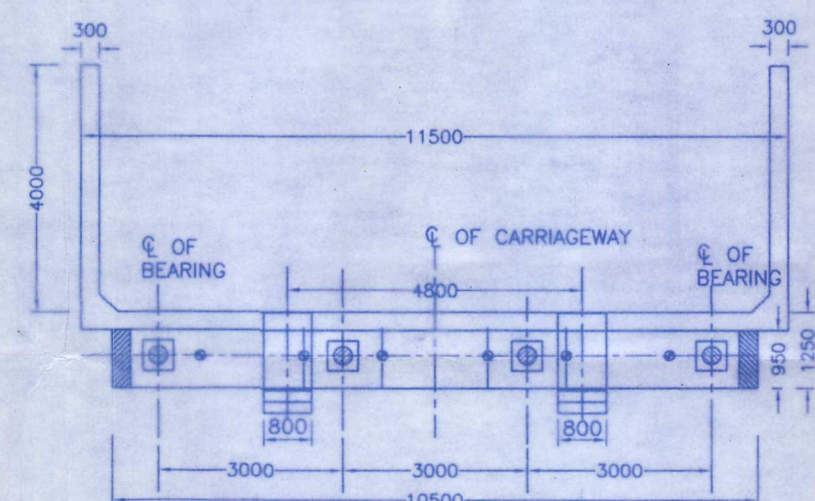
CROSS SECTION AT ABUTMENT



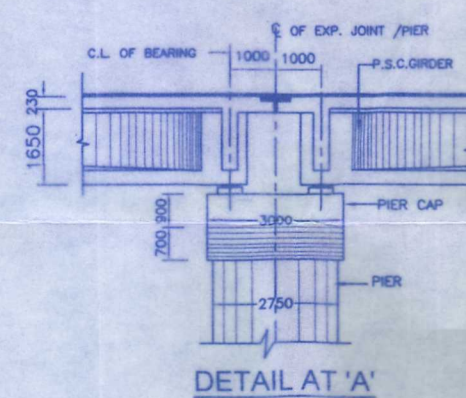
CROSS SECTION AT PIER



TOP PLAN OF PIER CAP



PLAN OF ABUTMENT TOP BEAM



DETAIL AT 'A'

- NOTES :-
- (A) THIS BRIDGE HAS BEEN SANCTIONED VIDE G.O. NO. 105/2026/1/ 2022891/ 2026/ 23-6099/74/ 2026 DATED: 18 MARCH, 2026. (B) YOJNA UNDER RAJYA YOJNA (GRAMIN) (C) SANCTIONED COST--1874.81 LACS.
  - ALL DIMENSIONS ARE IN MILLIMETRE, UNLESS OTHERWISE SPECIFIED AND R.L.'S ARE IN METRES. ONLY FIGURED DIMENSION SHALL BE FOLLOWED AND NOT THE SCALED DIMENSIONS.
  - DIMENSIONAL DETAILS OF DIFFERENT COMPONENTS ARE TENTATIVE & SHALL BE DECIDED AT TIME OF DETAILED DESIGN.
  - SALIENT FEATURES OF BRIDGE HAS BEEN TAKEN AS PROVIDED BY P.M. B.C.U. SHAHJAHANPUR VIDE LETTER NO. 2476/25062/BCU-SHAH-2025-26 DATED:- 28/03/2026 AND APPROVED BY G.M. (LUCKNOW) VIDE LETTER NO. 2274/SHAH/G.M. (LUCKNOW)/26 DATED 30-03-2026.
    - (i) DESIGN DISCHARGE = 1262 CUMEC.
    - (ii) H.F.L. = 155.750M.
    - (iii) L.W.L. = 149.250M.
    - (iv) SCOUR ZONE  $K_{sf} = 1.0$
    - (v) GRIP ZONE  $C = 0.0 \text{ Kg / Cm}^2, \theta = 30^\circ$
    - (vi) SAFE BEARING CAPACITY = 58.00 T/M<sup>2</sup> AT BASE LEVEL.
  - GRADE OF CONCRETE IN ALL COMPONENTS ARE TENTATIVE WHICH SHALL BE FINALIZED AFTER DETAILED DESIGN. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF CUBES AS FOLLOWS:-
    - (i) WELL CURB ..... M30
    - (ii) WELL STERNING ..... M30
    - (iii) BOTTOM PLUG ..... M25
    - (iv) INTERMEDIATE PLUG ..... M15
    - (v) WELL CAP ..... M35
    - (vi) PIER ..... M35
    - (vii) PIER CAP ..... M35
    - (viii) ABUTMENT, ABUT. CAP, DIRT WALL ..... M35
    - (ix) P.S.C. GIRDER & CROSS GIRDER ..... M45
    - (x) BEARING PEDESTAL ..... M40
    - (xi) DECK SLAB ..... M40
    - (xii) CRASH BARRIER ..... M40
    - (xiii) 75 M.M. THICK UNIFORM C.C.W./C. .... M30
  - BOTTOM PLUGGING--THE CONCRETE OF BOTTOM PLUG SHALL BE DONE IN ACCORDANCE TO CLAUSE 708.8 OF IRC:78-2014. THE CONCRETE MIX USED IN BOTTOM PLUG SHALL HAVE A MINIMUM CEMENT CONTENT OF 330 KG/CUM AND A SLUMP OF ABOUT 150 MM TO PERMIT EASY FLOW OF CONCRETE THROUGH TERMIE TO PLACE FILL-UP ALL CAVITIES. CONCRETE SHALL BE LAID IN ONE CONTINUOUS OPERATION TILL DREDGE HOLE IS FILLED TO REQUIRED HEIGHT. FOR UNDERWATER CONCRETING THE CONCRETE SHALL BE PLACED BY TREMIE UNDER STILL WATER CONDITION AND THE CEMENT CONTENT OF MIX BE INCREASED BY 10 %.
  - STEEL REINFORCEMENT SHALL BE Fe500(TMT BAR) CONFORM TO I.S.1786.
  - THE DIRECTION OF FLOW OF WATER IN RIVER IS AT 90° TO THE CENTER LINE OF THE BRIDGE.
  - QUALITY CONTROL SHALL CONFORM AS PER RELEVANT I.R.C. AND I.S. CODES.
  - SEISMIC PARAMETERS WILL BE AS PER I.R.C.-9-2016.
    - (i) IMPORTANCE FACTOR ..... 1.2
    - (ii) SEISMIC ZONE ..... IV
    - (iii)  $S_o/g$  ..... 2.5.
  - TENTATIVE DESIGN OF THE WELL HAS BEEN DONE AS PER ABOVE SOIL PARAMETERS. IF ANY CHANGE IN SOIL PARAMETERS, PLEASE PROVIDE TO DESIGN UNIT IMMEDIATELY.
  - NO. OF SPAN HAS BEEN DECIDED ON THE BASIS OF APPROVED DISCHARGE BY G.M.(LUCKNOW) MENTIONED ABOVE AND APPROVAL OF SITE SELECTION COMMITTEE ON DATED:- 03-2026, BUT THE FIELD UNIT RE-AFFIRM THE DISCHARGE AS PER I.R.C. GUIDE LINES AND ANY MODIFICATIONS IN DISCHARGE VALUE SHALL BE REPORTED TO DESIGN UNIT BEFORE START OF WORK.
  - BEFORE START OF WORK CLEARANCE FROM FOREST, IRRIGATION AND OTHER CONCERNING DEPARTMENT MUST BE OBTAINED BY CONSTRUCTION UNIT IF ANY.
  - R.L.'S SHOWN ARE AS REPORTED BY FIELD UNIT BUT THE FIELD UNIT RE-AFFIRM IT, IF IT DIFFERS WITH RESPECT TO G.T.S. & IF ANY MODIFICATION REQUIRED, REPORT TO HEAD QUARTER BEFORE START OF WORK.
  - ALL WORKS SHALL BE CARRIED OUT IN COMPLIANCE WITH STANDARD I.R.C./M.O.R.T.H. SPECIFICATIONS & AS PER RELEVANT I.R.C. & I.S. CODES.
  - IT IS RESPONSIBILITIES OF FIELD UNIT TO FULFILL ALL THE CONDITIONS OF G.O. NO. 105/2026/1/ 2022891/ 2026/ 23-6099/74/ 2026 DATED: 18 MARCH, 2026. BEFORE START OF WORK.
  - IT IS RESPONSIBILITY OF FIELD UNIT TO ACQUIRE SUFFICIENT LAND FOR BRIDGE AND APPROACH ROAD BEFORE START OF CONSTRUCTION WORK. AS PER ENGG. IN CHIEF (D.V.) LUCKNOW LETTER NO. 24 / CAMP Engr. in Chief /div / Q3(n.q.-1)/ 2018.DATED:-29-05-2018.
  - IF DISTANCE BETWEEN COORDINATES OF ABUTMENTS DIFFER WITH ACTUAL LENGTH OF BRIDGE AS PER G.A.D. THEN THE ACTUAL LENGTH OF BRIDGE AS PER G.A.D. SHOULD BE ADOPTED.
  - THE SPAN ARRANGEMENT AND FORMATION LEVEL OF THE PROPSD BRIDGE HAS BEEN KEPT IN CONSULTATION WITH P.M. B.C.U. SHAHJAHANPUR.
  - FOR PROTECTION WORK OF BRIDGE AND APPROACH ROAD REFER SEPARATE DRAWING.

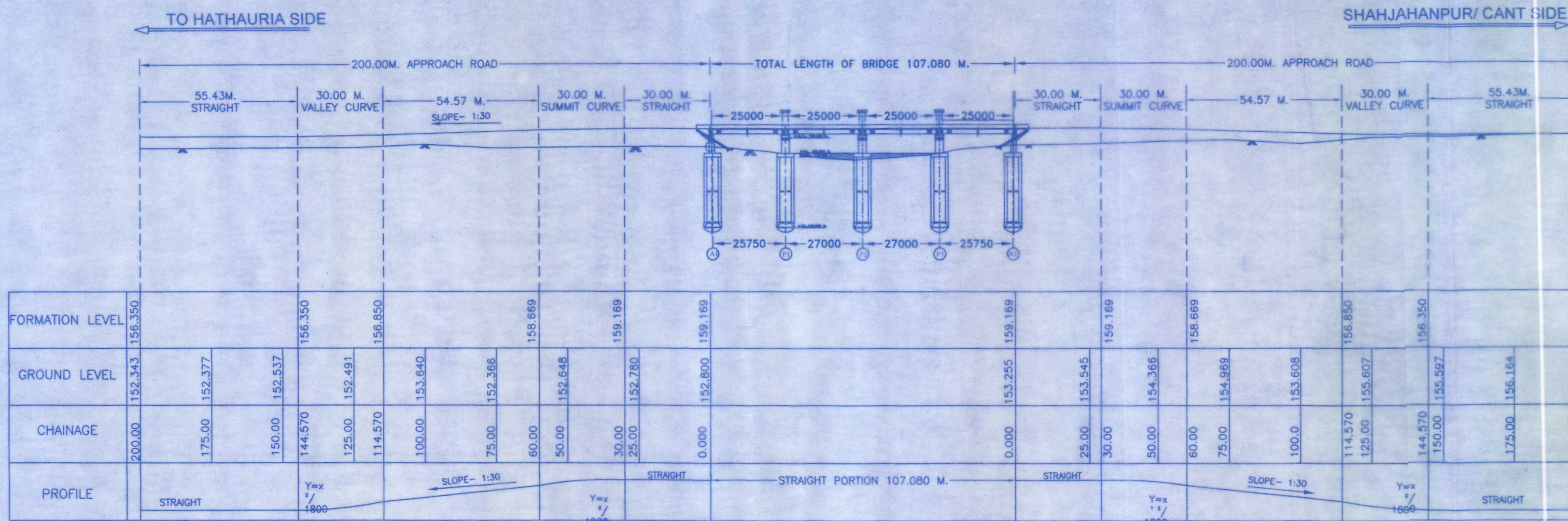
<p><b>U.P. STATE BRIDGE CORPORATION LTD.</b> 16, MADAN MOHAN MALVIYA MARG, LUCKNOW.22601</p>		
PROJECT	BRIDGE OVER RIVER KHANNAUT ON THE ROUTE FROM WESTERN CORNER OF VILLAGE HATHODIYA TOWARDS PIPAL GHAT IN DISTT. SHAHJAHANPUR	
TITLE	GENERAL ARRANGEMENT DRAWING	
SPAN	4 X 25.00 M. C/C BEARING	
LOADING	TWO LANE OF I.R.C. CLASS-"A"/ ONE LANE OF I.R.C "70R"	
CARRIAGEWAY	7.50M. CLEAR CARRIAGEWAY WITH BOTH SIDE FOOTPATH	
DRAWN BY	DESIGNED BY	REVIEWED BY
(J.S. SHARMA) CHIEF DIMAN	(ISHAN MANI) DY P.M. (CIVIL)	(AMIT SINGH) PROJECT MANAGER
B.D.U.-5	DRG.NO. 01/B.D.U.-5/KHANNAUT/PIPAL GHAT/SHAHJAHANPUR/2026 (SH. 01 OF 02)	

RECOMMENDED BY

APPROVED BY

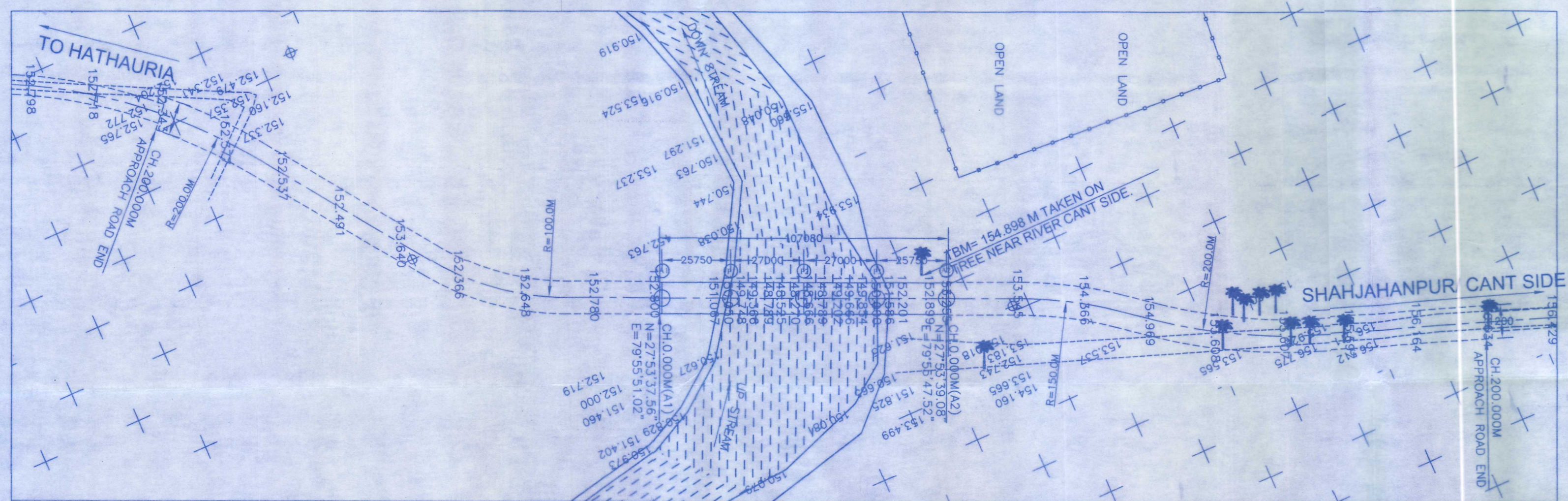
(FARHAN BASIT)  
CHIEF PROJECT MANAGER (DESIGN)

(MITHILESH KUMAR)  
JT. MANAGING DIRECTOR (DESIGN)



- NOTES & CONDITIONS**
- 1- THIS DRAWING SHALL BE READ ALONGWITH DRG. NO. 01/B.D.U.-5/ KHANNAUT/ PIPAL GHAT/SHAHJAHANPUR/2026 (SH. 01 OF 02) AND SITE PLAN OF THIS BRIDGE.
  - 2- LAND ACQUISITION SHALL BE ENSURED BEFORE START OF WORK AS PER D.O. LETTER NO.241 CAMP-PRA. ABHI ENGINEER IN CHIEF P.W.D./VIKAS/03/ MUKHYALAY 1-1/18. DATED 29/5/2018 OF ENGINEER IN CHIEF P.W.D.
  - 3- IF DISTANCE BETWEEN COORDINATES OF ABUTMENTS DIFFER WITH ACTUAL LENGTH OF BRIDGE AS PER G.A.D. THEN THE ACTUAL LENGTH OF BRIDGE AS PER G.A.D. SHOULD BE ADOPTED.
  - 4- MAXIMUM SPEED LIMIT IS 40 Km / HOUR. IT MUST BE ENSURED TO PROVIDE PROPER CAUTION BOARD FOR SPEED LIMIT AS PER SITE REQUIREMENT.
  - 5- TBM= 154.898 M TAKEN ON TREE NEAR RIVER CANT SIDE AS PROVIDED BY P.M., B.C.U. SHAHJAHANPUR.
  - 6- CROSS DRAINS SHALL BE PROVIDED AS PER SITE REQUIREMENT.
  - 7- PROVISIONS OF I.R.C. SP-23, I.R.C.-38 & I.R.C.-73 SHALL BE FOLLOWED FOR GEOMETRY OF APPROACH ROAD.

**GENERAL ELEVATION OF BRIDGE**



**LAY OUT AND SURVEY PLAN**

	<b>U.P.STATE BRIDGE CORPORATION LTD.</b> 16, MADAN MOHAN MALVIYA MARG, LUCKNOW.22601			
	PROJECT: BRIDGE OVER RIVER KHANNAUT ON THE ROUTE FROM WESTERN CORNER OF VILLAGE HATHODIYA TOWARDS PIPAL GHAT IN DISTT. SHAHJAHANPUR			
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CARRIAGEWAY: 7.50M. CLEAR CARRIAGEWAY WITH BOTH SIDE FOOTPATH				
RECOMMENDED BY	APPROVED BY	DRAWN BY	DESIGNED BY	REVIEWED BY
 (FARHAN BASIT) CHIEF PROJECT MANAGER (DESIGN)	 (MITHLESH KUMAR) JT. MANAGING DIRECTOR(DESIGN)	 (J.S. SHARMA) CHIEF DIMAN	 (ISHAN MANI) DY.P.M. (CIVIL)	 (AMIT SINGH) PROJECT MANAGER
R.D.U.-5 DRG.NO. 01/B.D.U.-5/KHANNAUT/PIPAL GHAT/SHAHJAHANPUR/2026 (SH. 02 OF 02)				