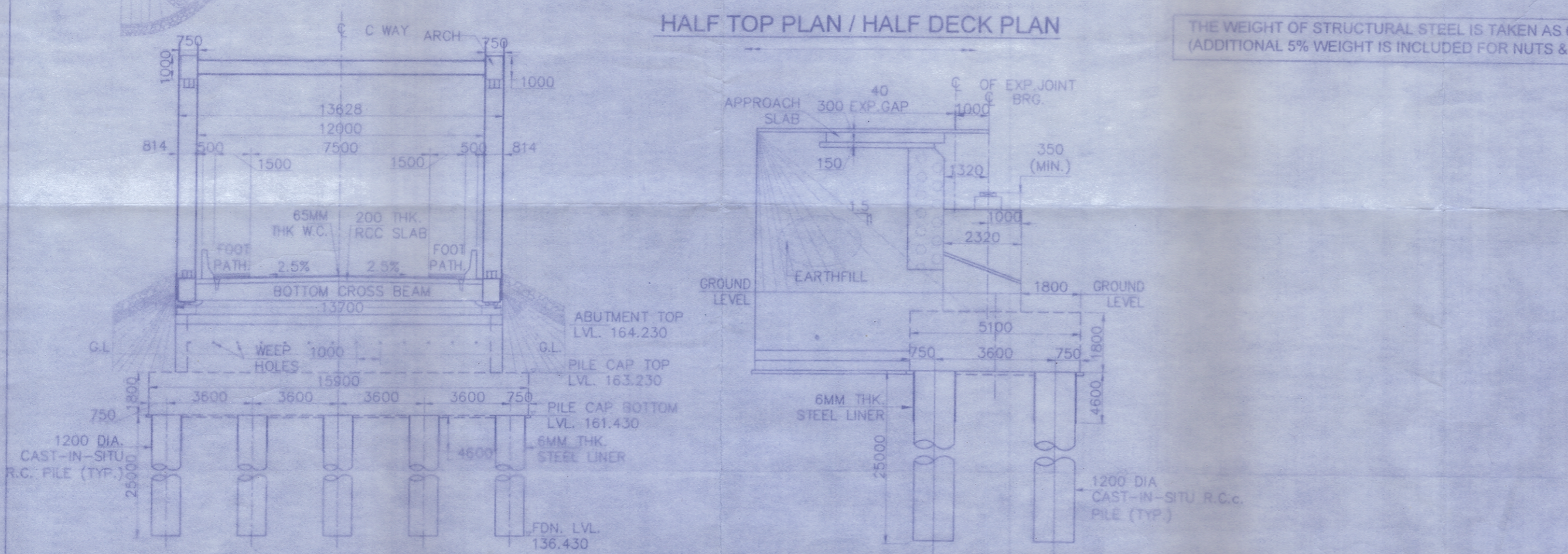


ELEVATION OF BRIDGE



HALF TOP PLAN / HALF DECK PLAN

TYPICAL CROSS SECTION OF ABUTMENT ALONG T-T AXIS

TYPICAL CROSS SECTION OF ABUTMENT ALONG L-L AXIS

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED. RL'S ARE IN METERS.
- DIMENSION ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- REINFORCEMENT STEEL SHALL BE HYSD BARS (GRADE DESIGNATION Fe500D CONFORMING TO IS:1786.
- 600 THICK FILTER MEDIA BEHIND ABUTMENT SHALL BE PROVIDED IN CONFORMITY WITH APPENDIX 6 OF IRC:78.
- WEARING COAT SHALL BE OF CEMENT CONCRETE 65MM THICK AS PER MORTH PROVISIONS.
- QUALITY CONTROL SHALL CONFORM TO I.R.C.-SP:112-2017
- CONCRETE GRADE IN VARIOUS COMPONENTS SHALL BE AS PER FOLLOWING DETAILS.
 A- FOUNDATION
 (a)- PILE CAP.....M35
 (b)- PILE.....M35
 B- SUB STRUCTURE
 (a)- ABUTMENT & TOP BEAM.....M35
 (b)- RETURN WALL & DIRT WALL.....M35
- SEISMIC PARAMETERS:-
 (i) IMPORTANCE FACTOR = 1.2
 (ii) SEISMIC ZONE = IV
- GEOTECHNICAL DATA:-
 (i) ANGLE OF INTERNAL FRICTION, ϕ = 32°
 (ii) DRY DENSITY OF EARTH, γ = 2.0 t/m³
 (iii) ANGLE, δ = 21.33°
 (iv) LATERAL LOAD = 24.00 TON
 (v) VERTICAL PILE CAPACITY = 240.00 TON
- THE DIRECTION OF FLOW OF WATER IN RIVER IS AT 90° TO THE CENTER LINE OF THE BRIDGE.
- HYDRAULIC DATA PROVIDED BY DEPARTMENT.
 (a) F.S.L.....163.590 M.
 (b) BED L.V.L.....161.090 M.
 (c) FREE BOARD.....0.990 M.
- THE DESIGN DISCHARGE HAS BEEN TAKEN AS 5250.00 CUSECS. (PROVIDED BY DEPARTMENT).
- THIS BRIDGE IS DESIGNED FOR TWO LANES OF CLASS A LOADING OR ONE LANE OF 70R WHICH EVER GOVERNS AS PER IRC 6:2017.
- PROTECTION WORKS AROUND ABUTMENTS AND GUIDE BUNDS SHALL BE DESIGNED AND CONSTRUCTED "AS PER ENGINEER IN CHIEF".
- ALL BEARINGS SHALL BE POT-PTEE TYPE.
- STRIP SEAL TYPE EXPANSION JOINT SHALL BE PROVIDED.
- 1000 P.V.C PIPE IN WEEP HOLES IN SLOPE 1:20 SHALL BE PROVIDED IN ABUTMENT, RETURN WALL A SPACING OF 1000c/c BOTHWAY.
- THE WORK IS TO BE CARRIED OUT AS PER APPROVED RELEVANT DETAILED DRAWING FOR DIFFERENT COMPONENTS OF THE STRUCTURE.
- ALL STRUCTURE STEEL SHALL BE Fe-430. ISMB -600 SHALL BE Fe-410 (TENTATIVE).

U.P.S.B.C. NOTES:-

- THIS G.A.D. HAS BEEN PREPARED BY CONSULTING INFRA ENGINEERS, HARYANA ON THE BASIS OF DATA REPORTED AND SUBMITTED BY P.M. B.C.U. SHAHJAHANPUR VIDE LETTER NO. 185/2537/B.C.U.-SHAHJ/2826-27, DATED 20-04-2026 AND RECOMMENDED GAD PROVIDED ON 21/04/2026.
- IT IS RESPONSIBILITY OF FIELD UNIT TO FULFILL ALL THE CONDITIONS OF G.O. NO. 18/2026/1/1285124/2026/23-6099/43/2026, DATED 31-03-2026.
- THIS G.A.D. IS APPLICABLE IF ALL THE PROVISIONS UNDER FINANCIAL AND ADMINISTRATIVE SANCTIONS IS MET.
- THE PROPOSED TYPE, SIZE & DIMENSION OF ALL COMPONENT ALONG WITH THEIR CONSTRUCTION METHODOLOGY SHALL BE CHECKED AND CERTIFIED BY THE P.M. CONSULTANT AND WILL FINALLY PROVE CHECK AND APPROVE ALL DESIGN, DRAWINGS AND CONSTRUCTION METHODOLOGY.
- BEFORE START OF WORK NECESSARY PERMISSION SHALL BE TAKEN FROM ALL CONCERNED DEPARTMENT.

DRAWING NO. GAD/BDU-5/SHARDA NAHAR/KM.60.587/SHAHJAHANPUR/2826 (SHA. CI. OF 05)

APPROVED
 21/04/26
 (Signature)
 21/04/2026
 (Signature)
 21/04/26
 (Signature)

<p>CLIENT</p> <p>UP State Bridge Corporation Ltd</p> <p>Plot No-16, Pandit Madan Mohan Malviya Road, Madan Mohan, Marg, Lucknow, Uttar Pradesh 226001</p>				<p>DESIGN CONSULTANT</p> <p>CONSULTING INFRA ENGINEERS</p> <p>ADDRESS: 21st SECTOR-02, BAHADURGARH, HARYANA-151507</p> <p>TEL: +91-7015446382 EMAIL: cietl@yahoo.com, consultinginfraengineers@gmail.com</p>				<p>TITLE</p> <p>NAME</p> <p>DATE</p>		<p>THIS DRAWING IS THE PROPERTY OF CONSULTING INFRA ENGINEERS AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE WITHOUT PRIOR CONSENT IN WRITING.</p>			
<p>REV</p> <p>DATE</p> <p>DESCRIPTION</p> <p>DRAWN</p>				<p>AE</p> <p>B.C.U.</p> <p>SHAHJAHANPUR</p>				<p>PROJECT</p> <p>CONSTRUCTION OF BRIDGE OVER SHARDA NAHAR (HARDOI BRANCH AT KM. 60.587) ON KUHYA-NAHIL-SINGHARPUR ROAD NEAR SINGHARPUR VILLAGE IN DISTT. SHAHJAHANPUR.</p>		<p>TITLE</p> <p>GENERAL ARRANGEMENT DRAWING</p>			
<p>APR. 2026</p> <p>FOR APPROVAL</p>				<p>P.M.</p> <p>B.C.U.</p> <p>SHAHJAHANPUR</p>				<p>DRAWN BY</p> <p>PB</p> <p>APR. 2026</p>		<p>Original Size</p> <p>Drawing Status</p> <p>Drawing No.</p> <p>CIE/UPSB/C/SHARDA/CH 60.587/GAD/02</p>			
<p>REV. DATE DESCRIPTION DRAWN</p>				<p>G.M.</p> <p>LUCKNOW</p>				<p>DESIGN BY</p> <p>YG</p> <p>APR. 2026</p>		<p>Rev</p> <p>#0</p>			
<p>1</p>				<p>2</p>				<p>APPROVED BY</p> <p>AG</p> <p>APR. 2026</p>		<p>10</p>			