JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH MINISTRY OF COMMUNICATIONS ROADS AND RAILWAYS DIVISION ROADS AND HIGHWAYS DEPARTMENT

RUPSA BRIDGE CONSTRUCTION PROJECT

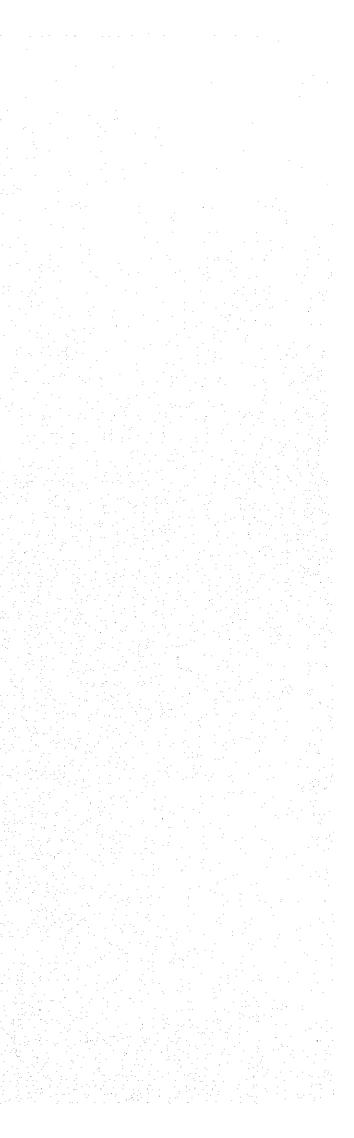
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Tender Documents : Volume D

(DRAFT VERSION)

PACIFIC CONSULTANTS INTERNATIONAL (PCI) JAPAN OVERSEAS CONSULTANTS (JOC)







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MARCH 2000

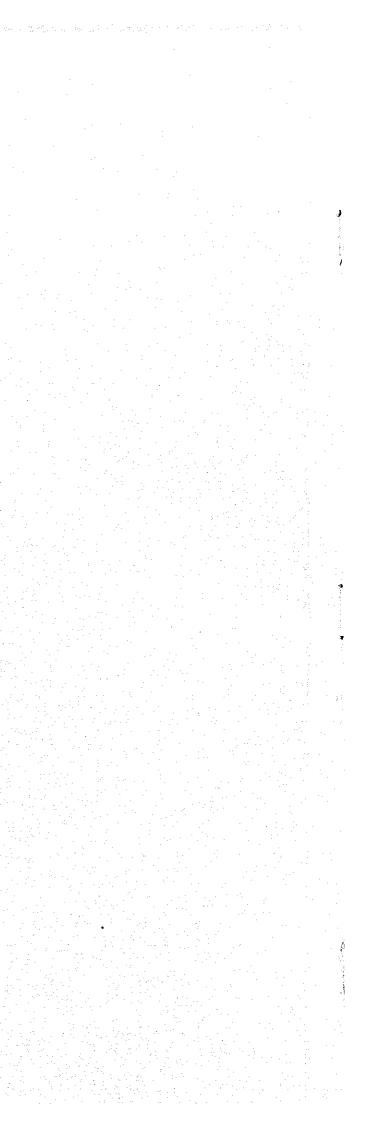
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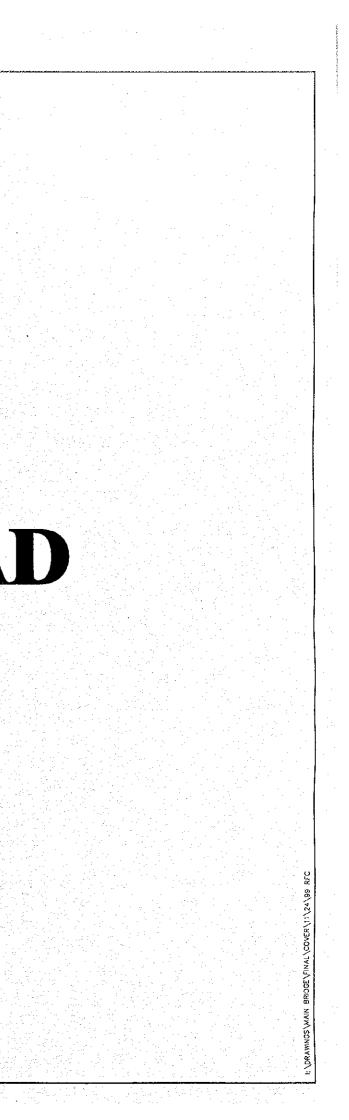
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A. GENERAL FOR ROAD



DRAWING INDEX - 1

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THE STUDY OVER THE RIV DRAWING

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A. GENERAL FOR ROAD

- A-00 DRAWING INDEX 1
- A-00a DRAWING INDEX 2
- A-01 LOCATION MAP
- A-02 GENERAL NOTES FOR ROAD & LAGEND

B. ALIGNMENT LAYOUT

- B-01~03 SOUTHERN SECTION KHULNA BYPASS B-04~07 - ACCESS ROAD B-08~10 - REFERENCE PEGS LAYOUT
- **C. TYPICAL CROSS SECTION**
- C-01 RIGHT OF WAY
- C-02 CROWN
- C--03 SUPERELEVATED
- C-04 ACCESS ROAD C-05 - BOX CULVERT & PIPE CULVERT
- C-06 RUPSA BRIDGE & CANAL BRIDGE
- C-07 TOLL PLAZA
- C-08 TOLL PLAZA FOR AUTO RICKSHAW
- C-09 INTERSECTION
- C-10 -- COUNTERWEIGHT FILL
- C-11 PAVEMENT DETAILS

D. PLAN & PROFILE

D01~16	77	PLAN
D-17~32	-	PROFILE OF KHULNA BYPASS
D-33~38	-	PROFILE OF ACCESS ROAD

E. CROSS SECTION

E-01~33 - KHULNA BYPASS

F. INTERSECTION

- F-01 KRISHNAGAR
- F-02 MOHANMAD NAGAR F-03 - LOBAN CHARA-1
- F-04 LOBAN CHARA-2
- F-05 CHAR RUPSA-1
- F-06 CHAR RUPSA-2
- F-07 JABUSA
- F-08 TEELOK

G. TOLL PLAZA

- G-01 LAYOYT OF TOLL PLAZA
- G-02 DETAILS OF TOLL PLAZA & BOOTH
- G-03 DETAILS OG TOLL PLAZA FOR AUTHORICKSHOW
- G-04 DETAILS OF CONCRETE PAVEMENT

H. INCIDENTAL WORKS

H-01~05	- DRAINAGE DETAILS-PIPE CULVERT
H-06 -	DRAINAGE DETAILS - DITCHES
H-07 -	DRAINAGE DETAILS - CONCRETE KERB
H08~12	- DRAINAGE DETAILS - CATCH BASIN
H13 -	DRAINAGE DETAILS VERTICAL DRAIN
H-14 -	DRAINAGE DETAILS - INLET
H15	DRAINAGE DETAILS - OUTLET
H-16 -	ROAD SIGN (REGULATORY, WARNING)
H-17 -	ROAD SIGN (GUIDE) & SIGN POST
H-18 -	TRAFIC MARKINGS
H19	GUARD RAIL AND DELINEATOR
H-20 -	LAYOUT OF GUARD RAIL
H21 -	CONCRETE BARRIER
H-22 -	STEEL BARRIER
H23 -	KILOMETER POST
H-24 -	R. O. W. MARKER POST AND EDGE BLOCK
H-25 -	STEEL LIGHTING
H-26 -	FLASHING LIGHT
H-27 -	SAFETY FENCE
H-28 -	BUS BAY
H-29 -	ROAD INTERSECTION PLANTING & BRICK PAVING

I. GENERAL

I-01	-	PROJECT	LAYOUT	ł,

J. MAIN BRIDGE

J-02 - GENERAL ARRANGEMENT OF BRIDGE (SHEET 2 OF 2)	
J-03 - SETTING OUT OF PIERS & FOUNDATIONS	
J-04 - GENERAL ARRANGEMENT OF TYPICAL PIER & FOUNDATION (SHEET 1 OF	2)
J-05 - GENERAL ARRANGEMENT OF MP1 (MP8) PIER & FOUNDATION (SHEET 2 0	¥F 2)
J-06 - PILE DETAILS & ARRANGEMENT OF REINFORCEMENT BARS (SHEET 1 OF 2	2)
J-07 - PILE DETAILS & ARRANGEMENT OF REINFORCEMENT BARS (SHEET 2 OF	2)
J-08 - RC DETAILS OF TYPICAL PIERS & PILE CAP (SHEET 1 OF 2)	
J-09 - RC DETAILS OF TYPICAL PIERS & PILE CAP (SHEET 2 OF 2)	
J-10 - RC DETAILS OF MP1 (MP8) & PILE CAP (SHEET 1 OF 3)	
J-10a - RC DETAILS OF MP1 (MPB) & PILE CAP (SHEET 2 OF 3)	
J-11 - RC DETAILS OF MP1 (MP8) & PILE CAP (SHEET 3 OF 3)	
J-12 - GENERAL ARRANGEMENT OF DECK SEGMENT (SHEET 1 OF 3)	
J-13 - GENERAL ARRANGEMENT OF DECK SEGMENT (SHEET 2 OF 3)	
J-14 - GENERAL ARRANGEMENT OF DECK SEGMENT (SHEET 3 OF 3)	-1.1
J-15 - LONGITUDINAL PRESTRESSING LAYOUT & DETAILS (SHEET 1 OF 4)	
J-16 - LONGITUDINAL PRESTRESSING LAYOUT & DETAILS (SHEET 2 OF 4)	
J-17 - LONGITUDINAL PRESTRESSING LAYOUT & DETAILS (SHEET 3 OF 4)	
J-18 - LONGITUDINAL PRESTRESSING LAYOUT & DETAILS (SHEET 4 OF 4)	

J-19 - NOT USED

J-20 -	NOT USED
J-21 -	TRANSVERSE PREST
J22 -	RC DETAILS OF DEC
J-23 -	RC DETAILS OF 300
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J24 -	RC DETAILS OF 360
J-25 -	RC DETAILS OF COM
J-26 -	RC DETAILS OF CLO
J-27 -	GENERAL ARRANGEN
J-28 -	PIER DIAPHRAGM SE
J-29 -	RC DETAILS OF PIEL
J30 -	GENERAL ARRANGE
J-31 -	RC DETAIL OF MP 1
J-32 -	FUTURE PRESTRESS
J33	BEARING & RESTRA
J-34 -	NOT USED
J35	EXPANSION JOINTS
J-36 -	LAYOUT OF DECK F
J-37 -	LAYOUT OF DECK F
J-38 -	LAYOUT OF DECK F
J39 -	DETAILS OF PARAPI
J-40 -	DETAILS OF PARAPI
J41	PRECAST BARRIER
J-42 -	DETAILS OF LIGHTIN
J-43 -	DETAILS OF LIGHTIN
J-43a -	DETAILS OF LIGHTIN
J-44 -	DRAINAGE DETAILS
J-45 -	DRAINAGE DETAILS
J-46 -	FUTURE UTILITIES F
J-47	MISCELANEOUS STE
J-48 -	FENDER DETAILS
J-49 -	ASSUMED CONSTRU
J—49a —	CONSTRUCTION SEC
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	BOREHOLE INFORMA
J-51 -	BOREHOLE INFORMA
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K-01	-	GENE	RAL	ARR	NGEN
K02		GENE	RAL	ARR	ANGEN

K02		GENERAL ARRANGE
K-03	-	GENERAL ARRANGE
K-04	-	REINFORCEMENT DE
K-05	_	GENERAL ARRANGE
K-06	-	REINFORCEMENT DE
K-07		GENERAL ARRANGE
K-08	_	GIRDER PRESTRESS

- K-08 GIRDER PRESTRESS
- K-10 GENERAL ARRANGEN

N CONSTRUCTION OF		
ER RUPSA IN KHULN	SCALE	Z) SHEET NO.
INDEX – 1	AS SHOWN	A-00
•		
		· .
SSING LAYOUT & DETAILS		
LONG VARIABLE DEPTH SEGMENT		
		- -
LONG CONSTANT DEPTH SEGMENT TANT DEPTH END SPAN SEGMENT		
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MENT PRESTRESSING LAYOUT & DET DIAPHRAGM SEGMENTS	AILS	
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SHEET 2 OF 2) ING DETAILS		
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ON (SHEET 1 OF 2)		
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		BRIDO
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		, IAN

THE STUDY OVER THE RI

DRAWING INDEX - 2

L. CANAL BRIDGE

- L-01 GENERAL ARRANGEMENT OF HATIA BRIDGE
- L-02 GENERAL ARRANGEMENT & RC DETAILS OF ABUTMENT
- L-03 REINFORCEMENT DETAILS OF ABUTMENT
- L-04 GENERAL ARRANGEMENT & RC DETAILS OF PIERS
- 1-05 REINFORCEMENT DETAILS OF PIERS
- L-06 GENERAL ARRANGEMENT & RC DETAILS OF DECK
- L-07 GIRDER PRESTTESSING LAYOUT & DETAILS (1) L-08 - BEARING AND GIRDER PRESTTESSING LAYOUT & DETAILS (2)
- L-09 -- GENERAL ARRANGEMENT & RC DETAILS OF DIAPHRAGM
- L-10 GENERAL ARRANGEMENT & RC DETAILS OF PARAPETS & KERB UNITS (SHEET 1 OF 2)
- L-10A GENERAL ARRANGEMENT & RC DETAILS OF PARAPETS & KERB UNITS (SHEET 2 OF 2)
- L-11 -- GENERAL ARRANGEMENT OF MOLONGHATA BRIDGE
- L-12 GENERAL ARRANGEMENT & RC DETAILS OF ABUTMENT
- L-13 REINFORCEMENT DETAILS OF ABUTMENT
- L-14 GENERAL ARRANGEMENT & RC DETAILS OF DECK & DIAPHRAGM
- L-15 GIRDER PRESTTESSING LAYOUT & DETAILS (1)
- L-16 BEARING AND GIRDER PRESTRESSING LAYOUT & DETAILS (2)
- L-17 ~ GENERAL ARRANGEMENT & RC DETAILS OF DIAPHRAGM
- L-18 GENERAL ARRANGEMENT & RC DETAILS OF PARAPETS & KERB UNITS (SHEET 1 OF 2)
- L-19 GENERAL ARRANGEMENT & RC DETAILS OF PARAPETS & KERB UNITS (SHEET 2 OF 2)

M. BOX CULVERT

	1		
•	M-01	-	GENERAL ARRANGEMENT OF CULVERT AT STA. 3+219 (ALUTALA KHAL)
	M-02	-	RC DETAIL OF BOX AT (STA. 3+219)
	M03	-	RC DETAIL OF WING WALL AT (STA. 3+219)
	M-04	-	NOT USED
	M-05	-	GENERAL ARRANGEMENT OF CULVERT AT STA. 3+760 (ARALIA KHAL)
	M-06	<u> </u>	RC DETAIL OF BOX AT (STA. 3+760)
	M-07		RC DETAIL OF WING WALL AT (STA. 3+760)
	M~08	-	NOT USED
	M-09	-	GENERAL ARRANGEMENT OF CULVERT AT STA. 4+660 (NARIKALBARIA KHAL).
	M-10	-	RC DETAIL OF BOX AT (STA. 4+660)
	M-11	_	RC DETAIL OF WING WALL AT (STA. 4+660)
	M-12		NOT USED
	M-13	-	GENERAL ARRANGEMENT OF CULVERT AT STA. 5+438 (KARATE KHAL)
	M14	_	RC DETAIL OF BOX AT (STA. 5+436)
	M-15	-	RC DETAIL OF WING WALL AT (STA. 5+436)
	M-16	-	NOT USED
	M-17	-	GENERAL ARRANGEMENT OF CULVERT AT STA. 5+643 (LAURIR KHAL)
	M-18	-	RC DETAIL OF BOX AT (STA. 5+643)
	M19	-	RC DETAIL OF WING WALL AT (STA. 5+643)
	M-20	-	NOT USED
	M-21		GENERAL ARRANGEMENT OF CULVERT AT STA. 5+882 (MOYUR KHAL)
	M22	-	RC DETAIL OF BOX AT (STA. 5+882)
	M-23	<u>.</u>	RC DETAIL OF WING WALL AT (STA. 5+882)
• •	M-24		NOT USED
	M-25	-	GENERAL ARRANGEMENT OF CULVERT AT STA. 6+266 (KHETRA KHAL)
	M-26	-	RC DETAIL OF BOX AT (STA. 6+266)
	M-27		RC DETAIL OF WING WALL AT (STA. 6+266)

M-28 - NOT USED M-29 - GENERAL ARRANGEMENT OF CULVERT AT STA. 6+496 (MORIYUTSURE KHAL) M-30 - RC DETAIL OF BOX AT (STA. 6+496) M-31 - RC DETAIL OF WING WALL AT (STA. 6+496) M-32 - NOT USED M-33 - GENERAL ARRANGEMENT OF CULVERT AT STA. 9+860 (BESAR KHAL) M-34 - RC DETAIL OF BOX AT (STA. 9+860) M-35 - RC DETAIL OF WING WALL AT (STA. 9+860) M-36 - NOT USED M-37 - APPROACH SLAB & MISCELLANEOUS WORKS

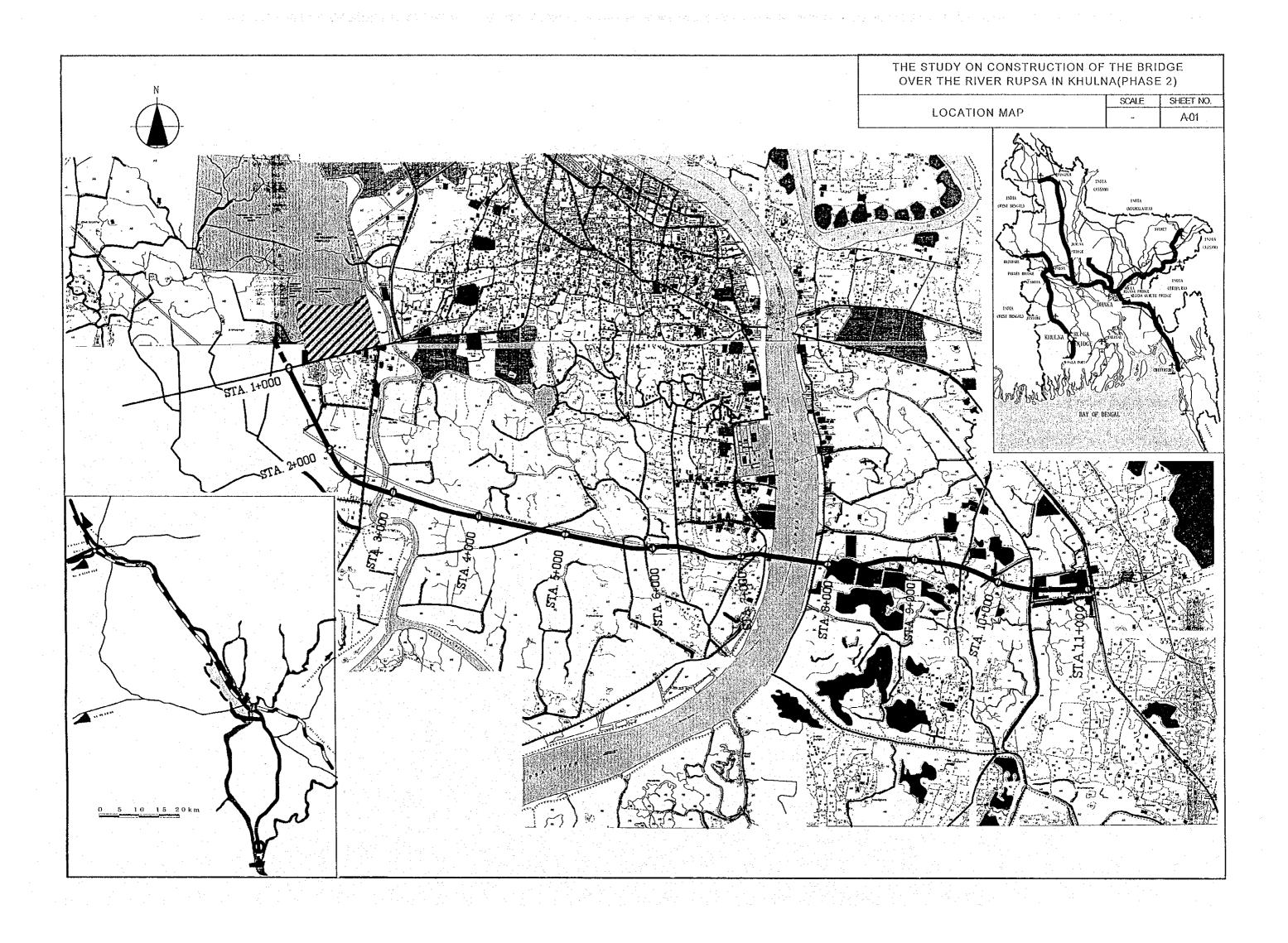
N. STAIRCASE

- N-01 GENERAL ARRANGEMENT OF WEST SIDE STAIR CASE (SHEET 1 OF 2) N-02 - GENERAL ARRANGEMENT OF WEST SIDE STAIR CASE (SHEET 2 OF 2)
- N-03 GENERAL ARRANGEMENT OF EAST SIDE STAIR CASE (SHEET 1 OF 2)
- N-04 GENERAL ARRANGEMENT OF EAST SIDE STAIR CASE (SHEET 2 OF 2)
- N-05 COLUMN AND PATTERN DETAILS OF STAIR CASE
- N-06 RAILING DETAILS OF STAIR CASE
- N-07 WEST SIDE STAIR CASE PLAZA LAYOUT PLAN
- N-08 WEST SIDE STAIR CASE PLAZA GENERAL DIMENSION PLAN
- N-09 - WEST SIDE STAIR CASE PLAZA PAVING GRID DIMENSION PLAN
- N-10 WEST SIDE STAIR CASE PLAZA GRADING PLAN
- N-11 WEST SIDE STAIR CASE PLAZA SURFACE WATER DRAINAGE PLAN
- N-12 EAST SIDE STAIR CASE PLAZA LAYOUT PLAN
- N-13 EAST SIDE STAIR CASE PLAZA GENERAL DIMENSION PLAN
- N-14 EAST SIDE STAIR CASE PLAZA PAVING GRID DIMENSION PLAN
- N-15 EAST SIDE STAIR CASE PLAZA GRADING PLAN
- N-16 EAST SIDE STAIR CASE PLAZA SURFACE WATER DRAINAGE PLAN
- N-17 MISCELLANEOUS WORK DETAILS OF STAIR CASE PLAZA (SHEET 1 OF 2)
- N-18 MISCELLANEOUS WORK DETAILS OF STAIR CASE PLAZA (SHEET 2 OF 2)
- N-19 STAIR PLAZA PLANTING WORK
- N-20 ELECTRICAL LAYOUT FOR STAIR CASE AND PLAZA (FOR BOTH EAST AND WEST SIDE)
- N-21 RC DETAILS OF STAIRCASE (SHEET 1 OF 3)
- N-22 RC DETAILS OF STAIRCASE (SHEET 2 OF 3)
- N-23 RC DETAILS OF STAIRCASE (SHEET 3 OF 3)

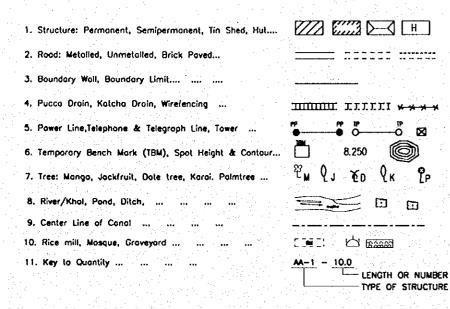
O. REVETMENT AND RIVER BED PROTECTION

- 0-01 PLAN OF REVETMENT
- 0-02 TYPICAL CROSS SECTION OF REVETMENT
- 0-03~04 CROSS SECTION OF REVETMENT
- 0-05 DETAILS OF CONNECTED SECTION OF REVETMENT
- 0-06 PLAN OF PROTECTION OF PIERS
- 0-07 DETAIL OF PROTECTION OF PIER

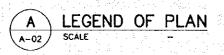
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P-01 - LIG	HTING LAYOUT KRISHI	NAGAR & JABUS	A	12
P-02 - LIG	HTING LAYOUT OF MC	HANMAD NAGAR	& HATIA BRIDGE	·
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P-13 - DR	AINAGE OF TEELOK			
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11. IL :- In Let

13. OL - Out Let

12. KP - Killometer Post

14. RM - R.O.W. Marker Pos

15. RS - Regulatory Sign 16, SB - Steel Borrier

17. SF - Sofety Fence

19. WS - Worning Sigr

18. SSKB

1. BB - Concrete Barrier

2. CC - Concrete Curb

4. CP - Concrete Pipe

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3. C8

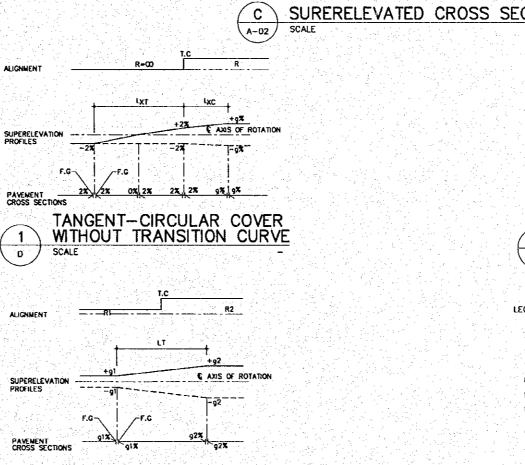
5. DE

6. DS - Ditch

7. EB - End Block

10. GS - Gaide Sign

8. FL - Floshing Light 9. GR - Guard Rail



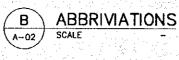
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A-02 /

SCALE

SURERELEVATION DIAGRAM

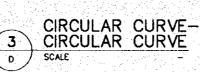
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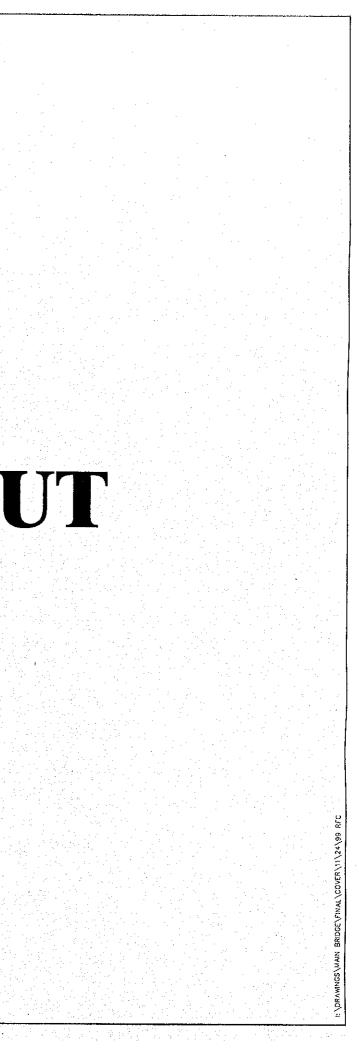
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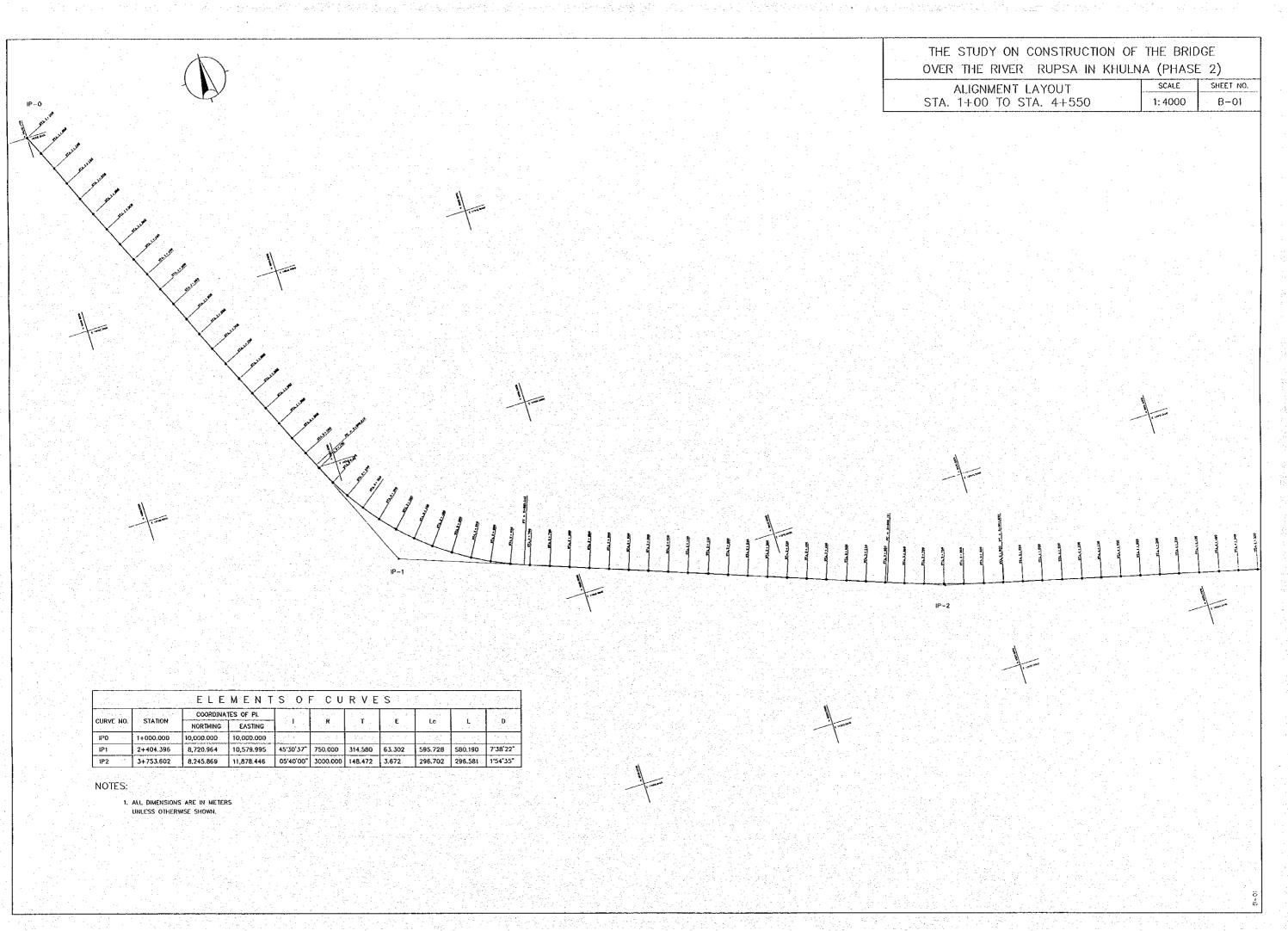
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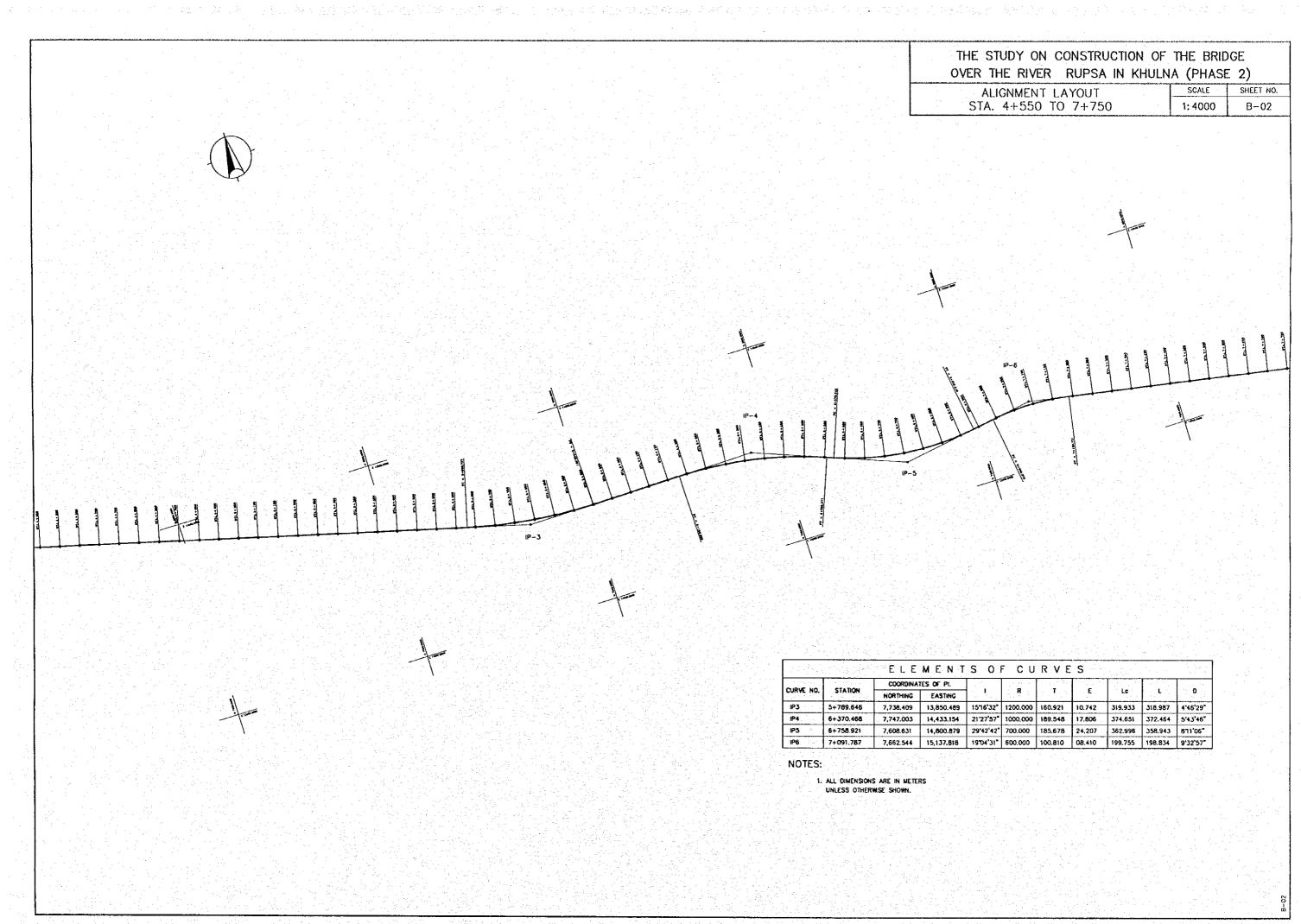
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CIRCUL REVERS SCALE D E OF ROADWAY LEFT HARD CARE RICHT HARD CARE RUN OFF LENGTH LENGTH OF RUN	AR CUF SE CIRC RAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING N CRCULAR C	INCREA G INCRE JRVE TRASITIC	NR CL	- - *)	
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CIRCUL CROSS SECTIONS CIRCUL REVERS SCALE D COMMAN LEFT HARD CARE RICHT HARD CARE RICHT HARD CARE RUN OFF LENGTH LENGTH OF RUN LENGTH OF RUN LENGTH ON WHIC IS KEPT 2.0% 1.92 FINAL RATE OF S	AR CUF SE CIRC BAR CUF CIRC RIAGEWAY (FACING RIAGEWAY (FACING I ON CIRCULAR C OFF LENGTH ON H SUPERELEVATIO	INCREA G INCREA G INCRE JRVE TRASITIC IN OF IN FOR CAR	SED STATION ASED STATION NER LANE SVLAR CURV	- γ) %	
CIRCUL REVERS SCALE CF ROADWAY LEFT HARD CARE RICHT HARD CARE RICHT HARD CARE RUN OFF LENGTH LENGTH OF RUN LENGTH OF RUN	AR CUF SE CIRC BE CIRC BE CIRC BIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING SOPERELEVATION I ARE IN MILLIMETE	INCREA G INCREA G INCRE JRVE TRASITIC IN OF IN FOR CAR	SED STATION ASED STATION NER LANE SVLAR CURV	- γ) %	
CIRCUL CROSS SECTIONS CIRCUL REVERS SCALE SCALE CORCUL SCALE CORCUL SCALE CORCUL SCALE CORCUL SCALE CORCUL SCALE CORCUL SCALE CORCUL SCALE SCAL	AR CUF SE CIRC BE CIRC BE CIRC BIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING RIAGEWAY (FACING SOPERELEVATION I ARE IN MILLIMETE	INCREA GINCRE JRVE TRASITIC FOR CIRC RS UNLE SERIES I	NNER LANE COLAR CURV	- γ) %	

B. ALIGNMENT LAYOUT

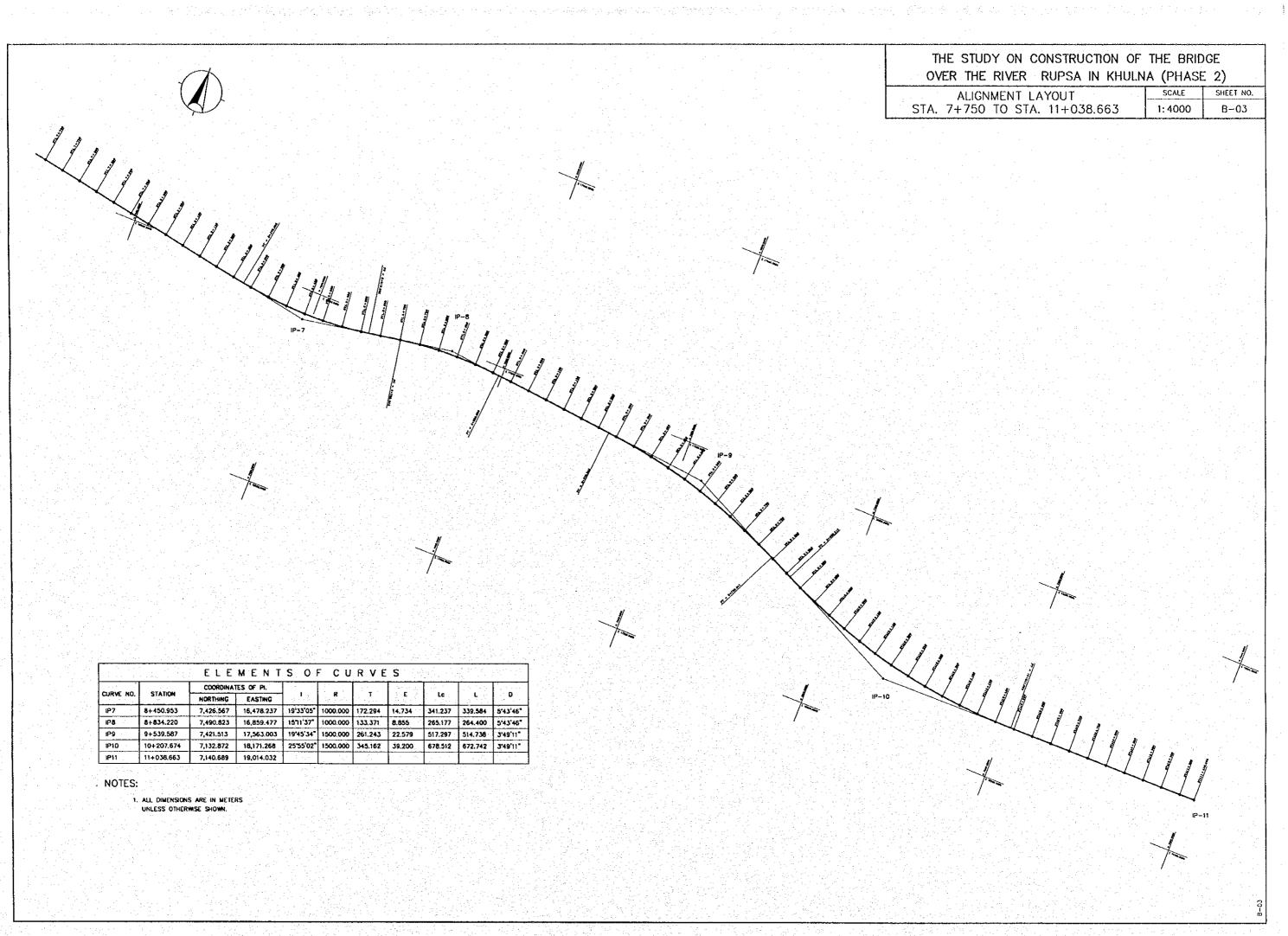


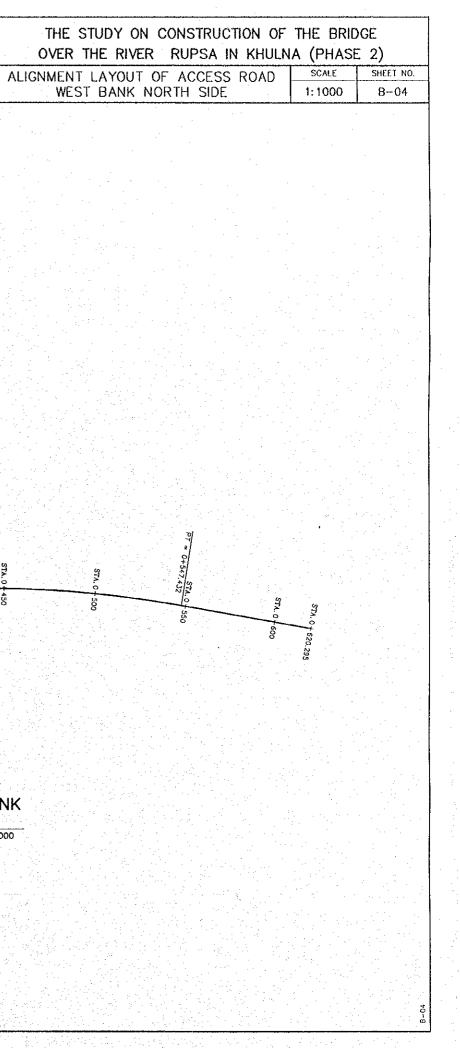


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CURVE NO.	STATION	NORTHING	EASTING		. R		5 E	LC		• D
iP0 ···	1+000.000	10,000.000	10,000.000	1.11	1.00	and the	e statione -	1.2	19.92	19.80
ខោ	2+404.396	8,720.964	10,579.995	45'30'37"	750.000	314.580	63.302	595.728	580.190	7'38'22"
IP2	3+753.602	8,245.869	11,878.446	05'40'00"	3000.000	148.472	3.672	296.702	296.581	1'54'35"



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0 185.678	24,207	362.996	372.404	5'43 46 811'06"			
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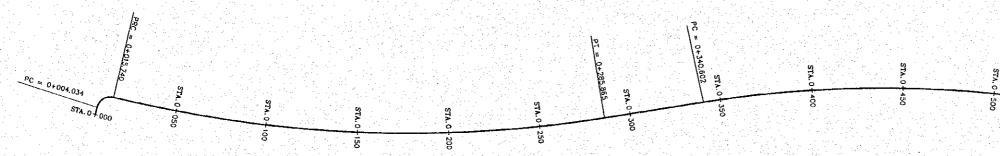




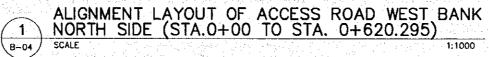
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· · . · .		ELE	MENT	S 0	FCU	RVE	S			
		COORDINA	TES OF PI.							
CURVE NO.	STATION	NORTHING	EASTING		R ·		-	LC	. ^L	
IPO :	0+000.000	7,660.426	14,702.687	2.5			1.12.12			1.2.2.2
IPI -	0+011.460	7,671,529	14,705.525	89'25'49"	7.500	7.426	3.054	11.706	10,554	763 56'37'
1P2 :	0+152.613	7,637.329	14,845.713	22'47'46"	678.934	136.873	13.659	270.125	268,347	08'26'21"
IP3	0+444.983	7,684.091	15,137.986	19'04'31"	621.250	104,381	8.708	206.830	205.876	0913'22"
IP4	0+620.295	7,653.361	15,312.545				1.1			1 · ·
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NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.



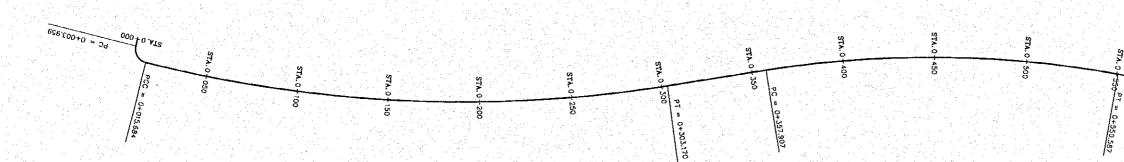
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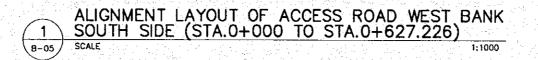


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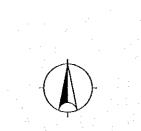
		ELE	MENT	S O	FCU	RVE	S		· . · ·	
		COORDINA	TES OF PI.					<u> </u>	1	
CURVE NO.	STATION	NORTHING	EASTING		- R	.T	E.	LC .	. L	0
IPO	0+000.000	7,641.533	14,697.858	100	1 - A.A.	1.5			1.1.1	
IP1	0+011,401	7,630.487	14,695.036	89'31'40"	7.503	7,442	3.065	11.724	10.567	763'36'19"
IP2	0+161.361	7.593.968	14,843.734	22'50'16"	721.250	145.677	14.565	287.485	285.587	07'56'38"
1P3	0+455.147	7,640.997	15,137.649	19'04'31"	578.750	97.240	8.112	192.680	191,792	09'54'00"
IP4	0+527.226	7,610.849	15,308.895				1	a thu th		· · :





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	CURVE NO.	0+000.000	NORTHING 7,641.533	14,697.858	R I R		E	LC	L	0												
		0+011,401 0+161.361	7,630.487 7.593.968	14,695.036 14,843.734	89'31'40" 7.503 22'50'16" 721,25	0 145.677		287.485	10.567 285.587				an a									
	1P3 1P4	0+455.147 0+527.226	7,640.997 7,610.849	15,137.649 15,308.895	19'04'31" 578.7	50 97.240	8.112	192.680	191.792	09'54'00"	-							- ·			•	
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		STA 0 +150	A CONTRACTOR		ST.A. 0 250		- l • -						STA 0 450		STA 0 + 500	0 -350 = 04		STA. 0 600	STA. 0 627.226			
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$\frac{STA_{0}O}{PCC} = 0$		STA.0 - 150	ST.V. 0 - 2000		STT. 0 250		- l • -						STIA.0 - 450		STA.0+500	0 -350 = 04		STN. 0 + 600	STA.0 + 527.226			
$\frac{STA_{0}O}{PCC} = 0$		STA. 0 - 150			SNMENT	LAYOL	0+303.170			100	400	ST BA	450		STA-0+500	0 -350 = 04		STAL 0 600	STN.0 7527.226			
$\frac{STA_{0}O}{PCC} = 0$		STA 0 150		ALIC	SNMENT TH SIDE		0+303.170			100	400	ST BA	ŝ		STA-0-500	0 -350 = 04		574.0	STN.0 7 527.226			
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$\frac{STA_{0}O}{PCC} = 0$		STA-00 150		ALIC	SNMENT TH SIDE	LAYOL (STA	0+303.170			100	400	ST BA 26)	ŝ		STA-0+500	0 -350 = 04		STR.0 / 600	STA.0 + 527.226			

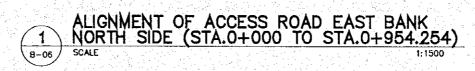
。 任于时代,我们就是这些问题的意思,我就就能够有关了你们还不可以必要把有些不是你们的考虑都是你必须不能是这个问题,我们还不能是不能的,我们就是我们不是不能是你不能

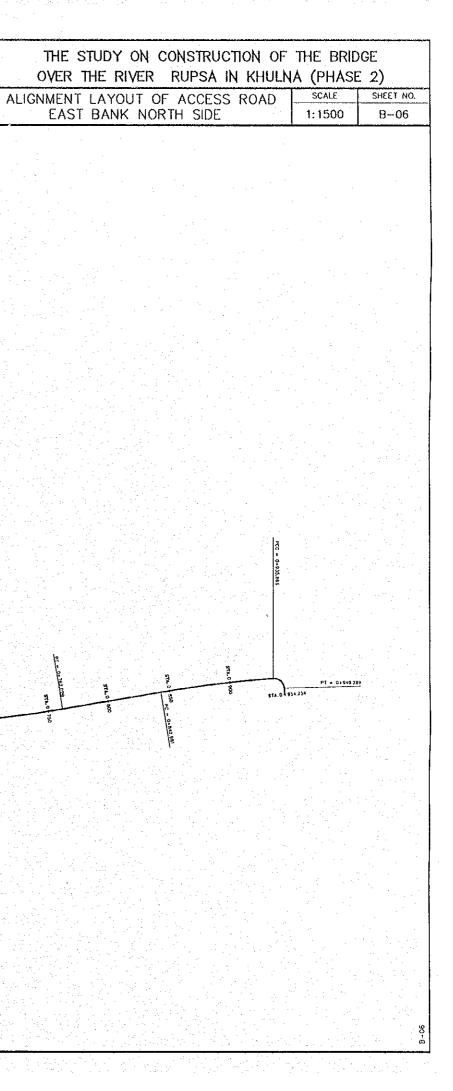


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		COORDINA	TES OF PI.							
CURVE NO.	STATION	NORTHING	EASTING		R	1	ε	L¢	L.	D
IPQ	0+000	7,551.643	15,890.328	al a	1.17	and the	1.1	11.1	- 936 16	
IP)	0+517.505	7,460.928	16,399.815	12'58'23"	783.727	89.108	5.049	177.453	177.074	07'18'38'
IP2	0+684.106	7,465.122	16,567.102	09'09'41"	976.750	78.256	3.130	156.179	156.012	05'51'57
IP3	0+889.455	7,499.307	16,769.925	0512'04"	1023.250	46,474	1.055	92.885	92.853	05'35'58
IP4	0+994.438	7,503.498	16,824.811	90"28'48"	8,500	8.572	3.571	13.423	12.071	674'04'05
IP5	0+954.254	7,489.993	16,825.728	1. a.e. 1. 1. 1.		1.1.1				

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.



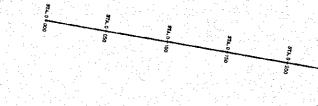


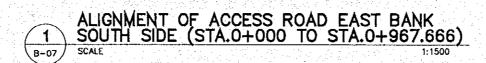
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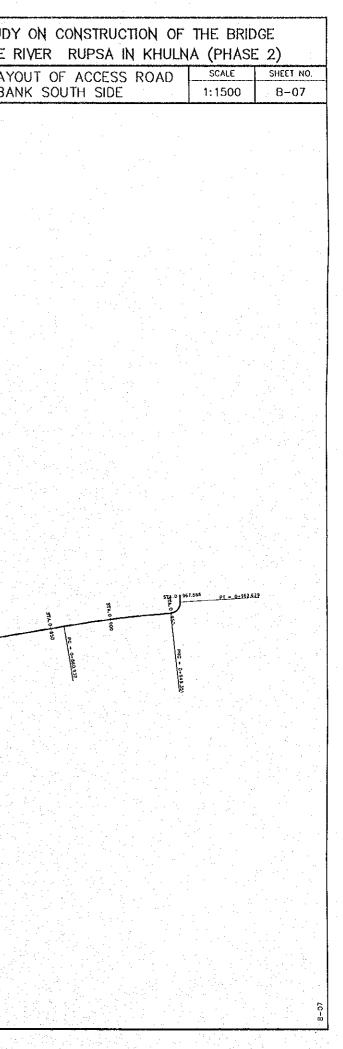
		ELE	MENT	S O I	FCU	RVE	S .		ja tra j	
		COORDINA	tes of PI.						<u> </u>	
CURVE NO.	STATION	NORTHING	EASTING	1 '	Ŕ	1	L.	LG	[. ^L .	D
IPO	0+000	7,510.253	15,880.312	·	1997	· · .	1.2.5		1.1	1000
IP1	0+523.873	7,420.412	16,395.419	07'55'10"	1340.456	92.788	3.208	185.280	185.132	0416'28
IP2	0+698.347	7,418,650	16,571.157	09'09'41"	1023.250	81.982	3.297	163.614	163.440	05'35'58
IP3	0+905.172	7,453.082	16,775.449	05'11'12"	976.750	44.240	1.001	88.419	88.389	05'51'57"
IP4	0+957.778	7,457.105	16,827.963	89'30'20"	8.500	8.427	3.469	13.278	11.969	674'04'05
IP5	0+967.666	7,470.538	16,827.050							

NOTES:

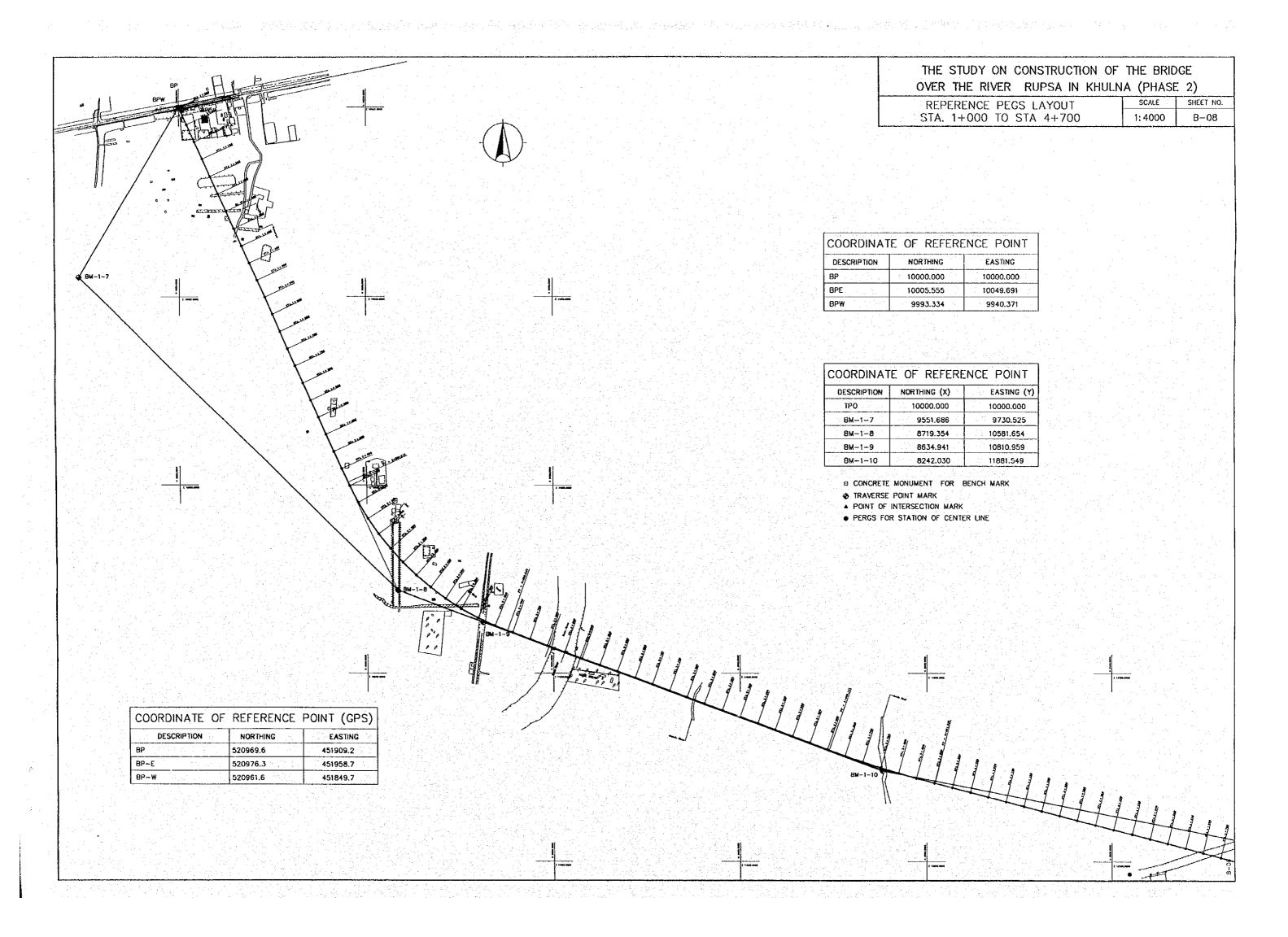
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				COORDINATE	OF REFERENCE PC	DINT (GPS)	CO
	\mathbf{T}			DESCRIPTION	NORTHING	EASTING	
				BM-1	518722.2	457275.4	ВМ-
				BM-1-N	518735.2	457276.3	8M-
				BM-1-S	518660.2	457270.8	814-
BM-1-11							
	ATT AT						
		BM-1-5	1 - 1 1			Nor Pis	

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COORDINAT	E OF REFERE	NCE POINT
LABEL	NORTHING (X)	EASTING (Y)
BM-1-11	8056.814	12836.381
8M-1-6	7750.518	13932.362
8M-1-5	7733.250	14318.083
BM-1-4	7722.046	14498.088
BM-1-3	7604.719	14942.101
BM-1-2	7502.577	15052,095
BM-1-1	7610.951	15186.295
8M-1	7631.150	15316.145
BM-2	7530.974	15885.174
BM~2~1	7685.639	15921.561

D CONCRETE MONUMENT FOR BENCH MARK

TRAVERSE POINT MARK

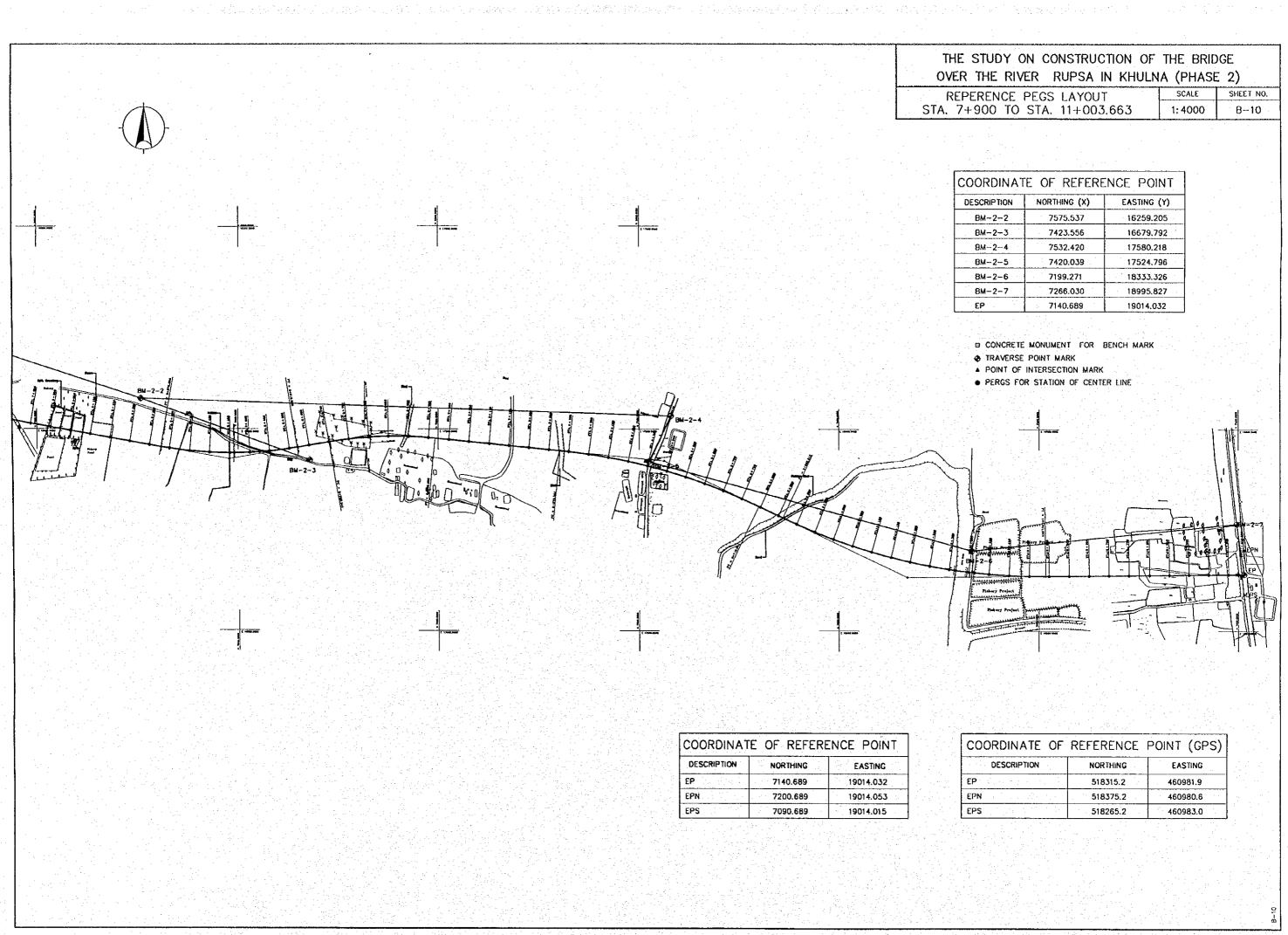
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A POINT OF INTERSECTION MARK

• PERGS FOR STATION OF CENTER LINE

COORDINAT	E OF REFERE	NCE POINT
DESCRIPTION	NORTHING	EASTING
8M-1	7631.150	15316.145
BM-1.N	7644.091	15310.222
BM-1.S	7569,194	15317.382

			OVER 1	HE RIVER RUPSA	IN KHULNA (F	PHASE 2)
			REPEI	RENCE PEGS LAYOU	TSC	CALE SHEET NO.
			STA. 4	+700 TO STA. 7+9	1:4	4000 B-09
					а. а.	
	COORDINATE OF			COORDINATE OF		
	DESCRIPTION	NORTHING	EASTING	DESCRIPTION	NORTHING	EASTING
	BM-1 BM-1-N	518722.2 518735.2	457275.4 457276.3	BM-2 BM-2-N	518634.9 518683.8	457846.3 457856.9
	BM-1-S	518660.2	457270.8	8M-2-S	518586.1	457835.7
					10 ¹	
10.0 %	5 7 19 1 1 1 1 1 1 1 1 1			AND IN .	1	
			BN-1-2		RUPSHA RIVER	ВМ-2-14 ВМ-2.N ВМ-2.S
						ВИ-2.N ВМ-2 ВМ-2.S
		TE OF REFER	ENCE POINT		ATE OF REFER	ВИ-2.N ВМ-2 ВМ-2.S
	COORDINA	TE OF REFER			ATE OF REFER	BH-2N BH-2 BM-2S BM-2S
	COORDINA DESCRIPTION BM-1 BM-1.N	TE OF REFERI NORTHING 7631.150 7644.091	ENCE POINT EASTING 15316.145 15310.222	COORDIN/ DESCRIPTION BM-2 BM-2.N	ATE OF REFER Northing 7530.974 7579.575	ВИ-2.N ВМ-2 ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2.S ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2
	COORDINA DESCRIPTION BM-1	TE OF REFER	ENCE POINT EASTING 15316.145	COORDIN/ DESCRIPTION BM-2	ATE OF REFER	В¥-2.N ВH-2 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2.5 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2 ВМ-2
	COORDINA DESCRIPTION BM-1 BM-1.N	TE OF REFERI NORTHING 7631.150 7644.091	ENCE POINT EASTING 15316.145 15310.222	COORDIN/ DESCRIPTION BM-2 BM-2.N	ATE OF REFER Northing 7530.974 7579.575	ВИ-2.N ВИ-2.N ВМ-2.S ВМ-3.S ВМ-3.S ВМ-3.S ВМ-3.S ВМ-3.S ВМ-3.S ВМ-3.S ВМ-3.S ВМ-3.S В



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NORTH	NG (X) E	ASTING	(Y)	
		16259.2	· · · ·	
	3.556	16679.7		
753	2.420	17580.2		·
7420	0.039	17524.7	96	
7199	0.271	18333.3	26	
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