

BANGLADESH WATER DEVELOPMENT BOARD



DRAINAGE IMPROVEMENT OF POLDER 1,2.6-8 AND 6-8(EXTENSION)

DESIGN OF DRAINAGE CUM FLUSHING REGULATOR

2-VENT(1.50mX1.80m) ON BAINBOSOT KHAL AT KM 13.00 IN POLDER NO-6-8(EXT) IN SATKHIRA
DISTRICT, UNDER SATKHIRA OEM DIVISION-2, BWD, SATKHIRA.

SATKHIRA OEM DIVISION-2, BWD, SATKHIRA

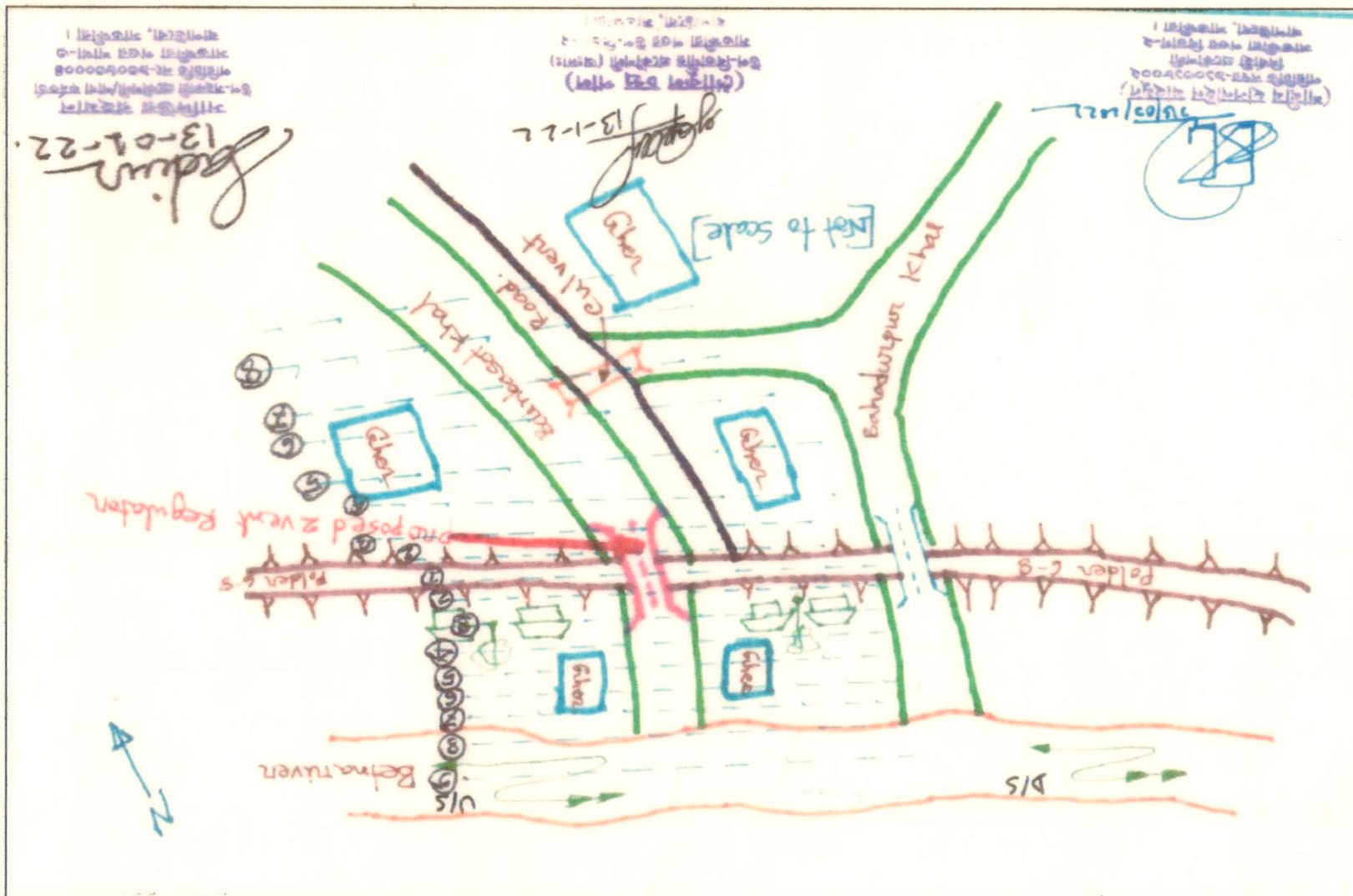
DESIGNED BY: DESIGN CIRCLE-8, BWD, DHAKA.
NOVEMBER, 2022

DATE: 23-11-2022 DWG. NO.: DC-8-0318-01/22
 MOHAMMAD SAFI UDDEEN, SE
 (JAKARIA PERVEZ), EE

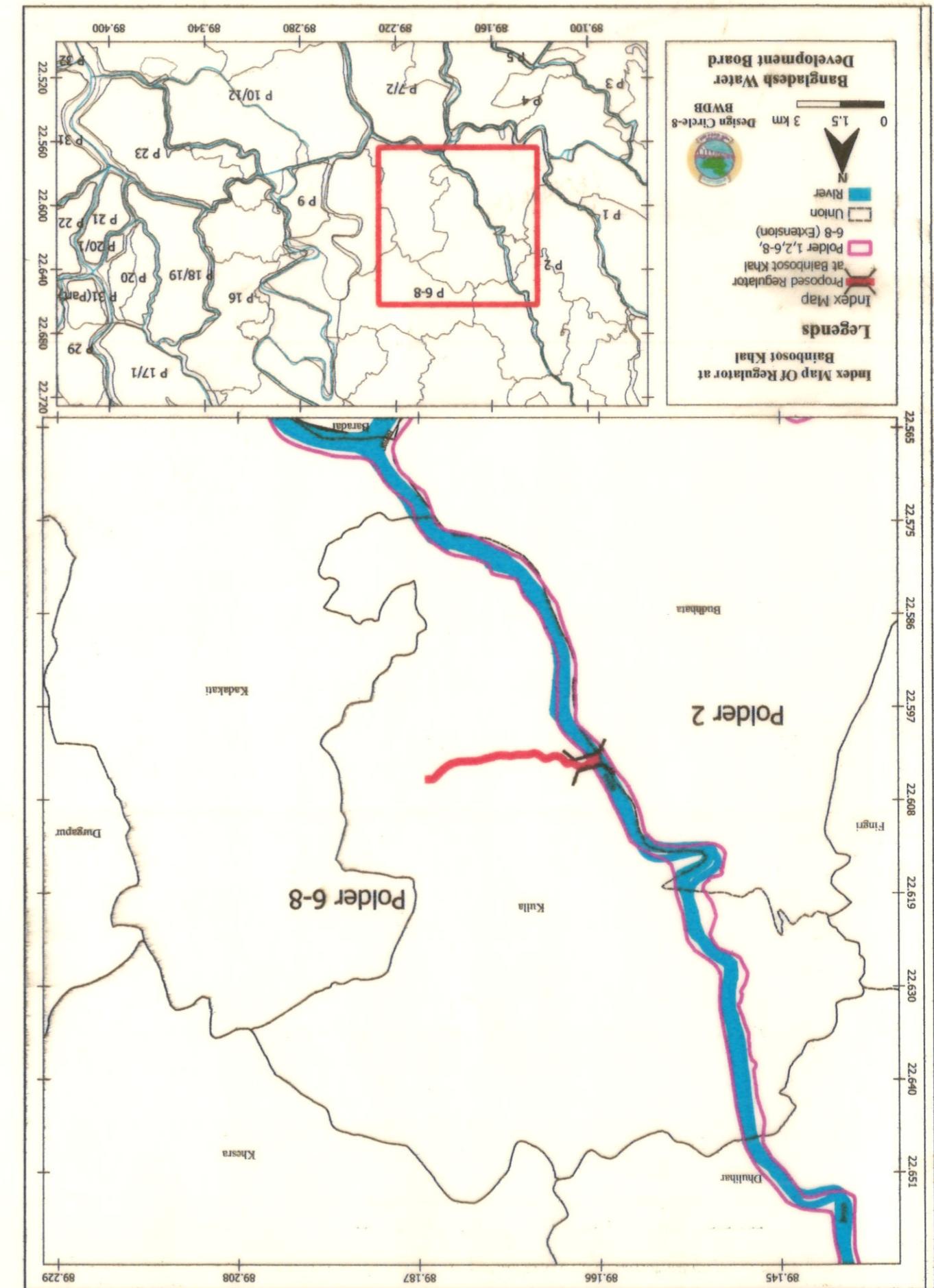
23/11/22

ZAYED BIN SAFI, AE	CHEKED & RECOMMENDED BY:
<i>Zayed</i>	
DESIGNED BY:	APPROVED BY:
<i>Zayed</i>	
INDEX MAP & SITE PLAN	DESIGNED BY:
NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2. 2-VEN(Y 1.50m X 1.80m) ON BANIBOSOT KHAL AT KM 13.00 IN PODDER DESIGN OF DRAINAGE CUM FLOODING REGULATOR 2-VEN(T 1.50m X 1.80m) ON BANIBOSOT KHAL AT KM 13.00 IN PODDER DESIGN IMPROVEMENT OF PODDER 1.2-6.8 AND 6-8(EXTENSION)	INDEX MAP & SITE PLAN
BWDB, SATKHIRA. BWDB, SATKHIRA.	
DESIGN OF THE SUPERINTENDING ENGINEER	DESIGNED BY:
OFFICE OF THE SUPERINTENDING ENGINEER	APPROVED BY:
Design Circle-8	
Bangladesh Water Development Board	

SITE PLAN

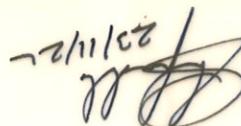


INDEX MAP

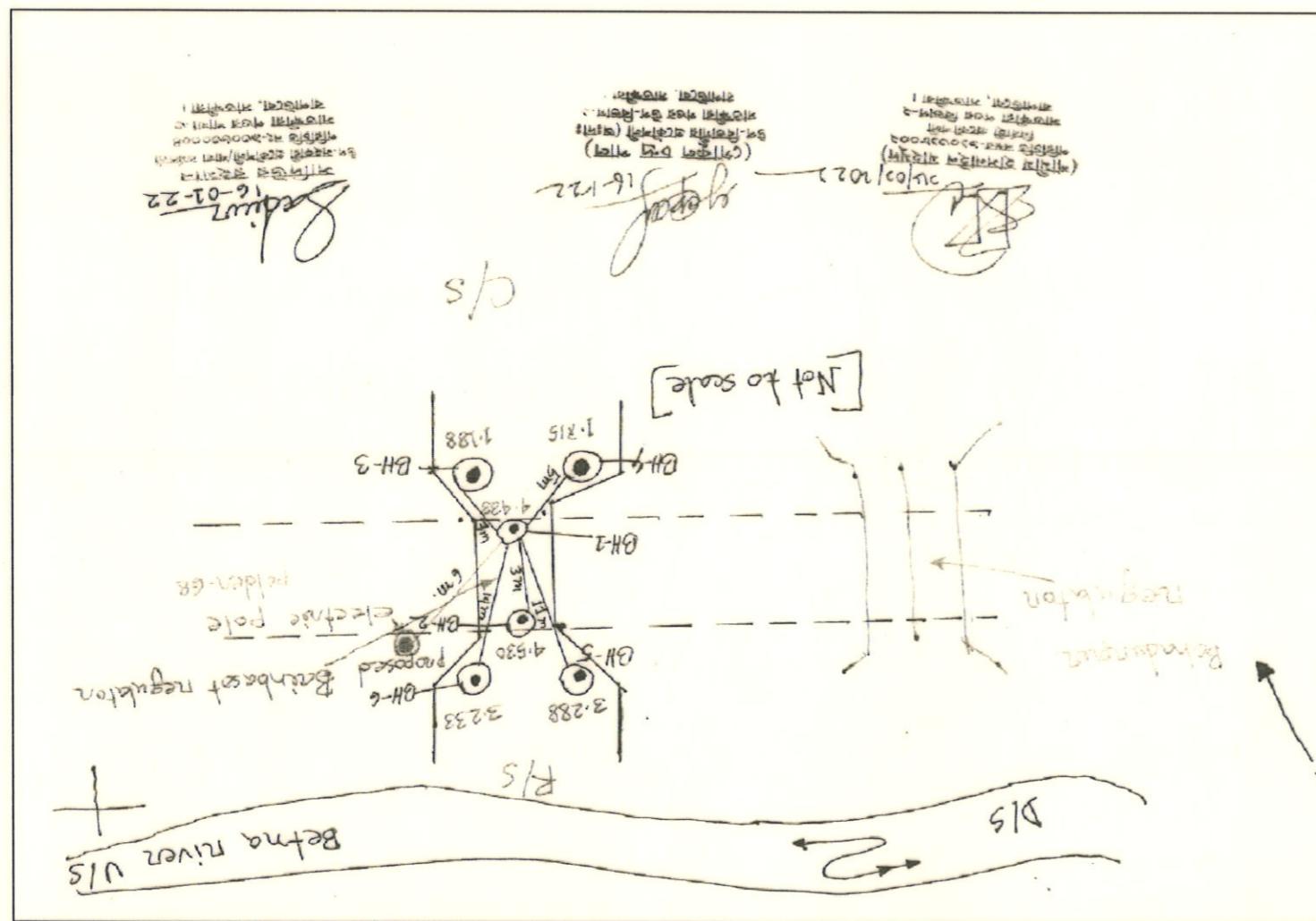


BORÉ LOG BH-01

FIELD BORE LOG									
BANGLADESH WATER DEVELOPMENT BOARD									
GROUNDWATER HYDROLOGY									
GROUNDWATER HYDROLOGY DIVISION-II									
PROJECT-Soil Boring for the construction of four Sluices at Bainbasat, Kuluila, Chumrikhali, and Khaejurdanga under Sakhira Sadar SITE- Bainbasat Site.									
and Ashaschunia Upazilla of Sakhira QDM Division-2, BWDB, Sakhira. LOCATION-Bainbasat Site. DATE STARTED-27.11.2021 DATE COMPLETED-27.11.2021 OF DATE-28.11.2021 WATERS LEVEL-11.0' GROUND LEVEL (+4.433 m. CLIENT-XEN, Sakhira QDM Division-2, BWDB, Sakhira. HOLE NO-01 DIST. Sakhira. P-S-shasunil DIST. Sakhira. SITE- Bainbasat Site.									
DRILLED BY GWHD-II UNIT RIG-21 TOTAL DEPTH 72 ft.									
LITHOLOGICAL DESCRIPTION									
No of Sample	Type of Sample	Scale	DESCRIPTION						
			PHYSICAL	DISTURBED SAMPLES	PENETRATION TEST	INDEX	MOISTURE	DILATANCY	BLOWS ON SPOON
5	Clay	M.D.=	Medium	Very Soft	Plastic	0 1 1 1	1 1 1 1	1 1 1 1	EL (-) 3.275m PWD
6	SAND	M.D.=	Dense	Dense	Non-Plastic	0 1 1 1	1 1 1 1	1 1 1 1	6.50m LONG SAND PILE
7	SILT	M.D.=	Dense	Dense	Grey	5 8 10 12	8 15 16 16	8 15 15 16	Very Fine Sand Some Silt and Mica
8	SILT	M.D.=	Dense	Dense	Grey	5 8 10 12	8 15 16 16	8 15 15 16	Very Fine Sand Some Silt and Mica
9	SILT	M.D.=	Dense	Dense	Grey	9 15 16 17	9 16 16 17	9 15 16 17	Fine Sand Some Very Fine Sand and Mica
10	SILT	M.D.=	Dense	Dense	Grey	10 15 18 19	10 16 17 18	10 15 18 19	Fine Sand Some Very Fine Sand and Mica
11	SILT	M.D.=	Dense	Dense	Grey	10 16 17 18	10 16 17 18	10 16 17 18	Fine Sand Some Very Fine Sand and Mica
12	SILT	M.D.=	Dense	Dense	Grey	10 16 17 18	10 16 17 18	10 16 17 18	Fine Sand Some Very Fine Sand and Mica
13	SILT	M.D.=	Dense	Dense	Grey	10 16 17 18	10 16 17 18	10 16 17 18	Fine Sand Some Very Fine Sand and Mica
14	SILT	M.D.=	Dense	Dense	Grey	10 16 17 18	10 16 17 18	10 16 17 18	Fine Sand Some Very Fine Sand and Mica

Bangladesh Water Development Board	OFFICE OF THE SUPERINTENDENT ENGINEER DESIGN CIRCLE-8 DRAINAGE IMPROVEMENT OF PODDER 1,2,6-8 AND 6-8(EXTENSION) DESIGN OF DRAINAGE CUM FLOODING REGULATOR 2-VENT(1.50mx1.80m) ON BANIBOSOT KHAL AT KM 13.00 IN PODDER NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2, BWDB, SATKHIRA.	BORE LOG & LOCATION SKETCH APPROVED BY :  ZAVED BIN SAFI, AE	HECKED & RECOMMENDED BY :  JAKARIA PERVEZ, EE
DWG. NO.: DC-8-0318-02/21 DATE: 23/11/2022	(MOHAMMAD SAIF UDIN), SE 		

(Not to Scale)



(MOHAMMAD SAIF UDDEEN), SE

2021/2
M

DESIGNED BY : *Hafiz*
SIGNED BY : ZAYYED BIN SAIF, AE
HECKED & RECOMMENDED BY : *JAKARIA PERVEZ*, EE
JAKARIA PERVEZ, EE

Bangladesh Water Development Board
Office of the Superintendent Engineering
Design Circle-8
Dhaka-1205

ORE LOG BH-05

BORE LOG BH-04

GENERAL NOTES

1. THE SPECIFICATION OF MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARDS TECNICAL SPECIFICATION SHALL BE IN MILIMETERS AND ALL ELEVATIONS ARE IN METER.

2. ALL DIMENSIONS ARE PREPARED AS PER PROPOSAL AND DESIGN DATA SUBMITTED BY SE, KHULNA OEM RECEIVED FROM EE, SATKHIRA OEM DIVISION-2-BWDB SATKHIRA TRUOUGH EMAIL ON 09-11-2022.

3. CONCRETE FOR CC BLOCKS SHALL HAVE MINIMUM STRENGTH, $f_c = 10.50 \text{ N/mm}^2$ AT 28 DAYS.

6. CURING OF CONCRETE SHALL BE CONTINUED FOR MINIMUM 21 DAYS AFTER CASTING.

7. CONCRETE SHALL BE POURED IN DRY BED CONDITION.

8. THE SURFACE OF CONCRETE JOINTS SHALL BE WASHED THOROUGHLY WITH WATER JET & SHALL BE CLEAN ENOUGH AFTER THAT, SURFACE SHALL BE DRY PRIOR TO PLACEMENT OF ADJOINING CONCRETE.

9. CONCRETE MIXTURE SHALL BE POURED AS QUICK AS POSSIBLE BUT NOT LATER THAN 45 MINUTES AFTER MIXING.

10. 75 MM LEAN CONCRETE AT BASE SHALL BE IN 1:3:6.

11. THE LEAN CONCRETE AT FOUNDATION OF THE PROPOSED REGULATOR SHALL BE PLACED AFTER PROPER PREPARING & COMPACTING EXCAVATED BASE.

12. CLEAR COVER FOR REINFORCMENT SHALL BE AS FOLLOWS:

(a) Operating deck & Railings : 25mm

(b) Concrete adjacent to earth : 75mm

(c) Concrete adjacent to foundation : 75mm

(d) Concrete exposed to weather and water or others: 75mm

13. MINIMUM LAP LENGTH SHALL BE 40 TIMES THE BAR DIAMETER.

14. LAP SHALL BE STAGGERED SO THAT NOT MORE THAN 50% OF BARS ARE LAPPED IN ANY ONE CROSS SECTION. WHERE BARS MUST LAP IN ONE CROSS SECTION, THEN LAP LENGTH SHALL NOT BE LESS THAN 1.30 TIMES MINIMUM LAP LENGTH.

15. REINFORCING BAR MUST BE SUPPORTED IN ITS PROPER POSITION BY USE OF MORTAR BLOCK, LESS THAN 1.30 TIMES MINIMUM LAP LENGTH.

16. SAND FILLING IN FOUNDATION SHOULD BE DONE WITH SAND ($f_m = 1.50$) IN LAYERS OF 150 mm SUPPORTS OR BY OTHERS APPROPRIATE MEANS.

17. UNLESS OTHERWISE SPECIFIED, BACK FILLING SHALL BE DONE WITH SAND ($f_m = 0.80$) FREE FROM DENSITY.

18. DESIGN OF GATE AND HOISTING SYSTEM WILL BE PREPARED BY DESIGN CIRCLE-III, BWDB, DHAKA. SIMULTANEOUSLY ON BOTH WALLS.

19. GATE TO BE OPERATED IN CONTROLLED WAY TO AVOID ANY SCOUR WHEN HEAD DIFFERENCE IS BEYOND 0.60m.

20. THE EMBEDDED PARTS OF GATE TO BE INSTALLED DURING CONSTRUCTION OF BARREL PART AND IS BEYOND 0.60m.

21. THE GATE SHALL BE INSTALLED BEFORE THE OPERATION OF THE STRUCTURE.

22. ANY ERROR/MISISON IF DETECTED SHALL BE REFERRED TO THE CONCERNED DESIGN OFFICE TAKING NECESSARY ACTION.

23. ALL BORE HOLES SHALL BE SEALED BEFORE CONSTRUCTION OF REGULATOR.

24. POST GUARD IN BOTH SIDE OF APPROACH ROAD IS NEEDED.

25. PAINT OF POST GUARD AND RAILING IS NEEDED.

SPECIAL NOTES:

4. REINFORCING BAR SHALL BE DEFORMED MILD STEEL HAVING YIELD STRENGTH, $f_y = 400.00 \text{ N/mm}^2$.

5. CONCRETE FOR CC BLOCKS SHALL HAVE MINIMUM STRENGTH, $f_c = 10.50 \text{ N/mm}^2$ AT 28 DAYS.

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19. GATE TO BE OPERATED IN CONTROLLED WAY TO AVOID ANY SCOUR WHEN HEAD DIFFERENCE IS BEYOND 0.60m.

20. THE EMBEDDED PARTS OF GATE TO BE INSTALLED DURING CONSTRUCTION OF BARREL PART AND IS BEYOND 0.60m.

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22. ANY ERROR/MISISON IF DETECTED SHALL BE REFERRED TO THE CONCERNED DESIGN OFFICE TAKING NECESSARY ACTION.

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24. POST GUARD IN BOTH SIDE OF APPROACH ROAD IS NEEDED.

25. PAINT OF POST GUARD AND RAILING IS NEEDED.

NOTES FOR SHEET PILLS:

1. HOT ROLLED U-SHAPE STEEL SHEET PILE SHALL BE USED. COLD ROLLED SHEET PILE SHALL NEVER BE USED.

2. COATING SHALL BE PROVIDED OVER SHEET PILE IN THE FOLLOWING WAY :-

(i) CLEAN THE SHEET PILE SURFACE PREFERABLY WITH SAND BLASTING.

(ii) PROVIDE 1 (ONE) COAT OF ZINK PHOSPHATE AS PRIMARY COAT,

(iii) PROVIDE 2 (TWO) COAT OF COAL TAR EPOXY COAT OVER PRIMARY COAT.

4. CONCRENE EXECUTIVE ENGINEER MUST ENSURE SHEET PILE BE 10.50mm ($\pm 0.50\text{mm}$) (ITEM CODE: 44-240-10).

5. TOP LEVEL OF EVERY CONNECTED SHEET PILES MUST HAVE SAME LEVEL.

2. ALL EMBEDDED PARTS OF GROOVE AND OTHERS WILL BE STAINLESS STEEL (SUS-304).

1. ALL EMBEDDED PARTS OF GROOVE AND OTHERS WILL BE STAINLESS STEEL (SUS-304).

2. VENT (1.50mx1.80m) ON BANBASOT KHAL AT KM 13.00 IN PODDER 2-VENT (1.50mx1.80m) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2.

NO-6-(8) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2.

BWDB, SATKHIRA.

DESIGN OF DRAINAGE CUM FILTRATION REGULATOR

DESIGN IMPROVEMENT OF PODDER 1,2-6-8 (EXTENSION)

NOTES FOR EMBEDDED PARTS, GROOVE AND GATE:

1. ALL EMBEDDED PARTS OF GROOVE AND OTHERS WILL BE STAINLESS STEEL (SUS-304).

2. ALL PARTS OF MECHANICAL GATE WILL BE STAINLESS STEEL (SUS-304).

DESIGN IMPROVEMENT OF PODDER 1,2-6-8 (EXTENSION)

DRAINAGE CUM FILTRATION REGULATOR

2-VENT (1.50mx1.80m) ON BANBASOT KHAL AT KM 13.00 IN PODDER

NO-6-(8) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2.

BWDB, SATKHIRA.

DESIGN OF DRAINAGE CUM FILTRATION REGULATOR

DESIGN IMPROVEMENT OF PODDER 1,2-6-8 (EXTENSION)

Bangladesh Water Development Board

DESIGNER BY :

ZAYED BIN SAIF, AE

CHECKED & RECOMMENDED BY :

JAKARIA PERVEZ, EE

MOHAMMAD SAIF UDIN, SE

APPROVED BY :

NOTES

DESIGNER BY :

ZAYED BIN SAIF, AE

CHECKED & RECOMMENDED BY :

JAKARIA PERVEZ, EE

MOHAMMAD SAIF UDIN, SE

APPROVED BY :

NOTES

DESIGNER BY :	ZAYED BIN SAIF, AE
CHECKED & RECOMMENDED BY :	JAKARIA PERVEZ, EE
APPROVED BY :	MOHAMMAD SAIF UDIN, SE
NOTES	
DESIGNER BY :	
ZAYED BIN SAIF, AE	
CHECKED & RECOMMENDED BY :	
JAKARIA PERVEZ, EE	
APPROVED BY :	
NOTES	

(MOHAMMAD SAIF UDDIN), SE

23/11/22

(JAKARIA PERVEZ), EE

CHECKED & RECOMMENDED BY :

(ZAYED BIN SAIF), AE

Zayed

DESIGNED BY : APPROVED BY :

(SULTAN ALI)

SECTIONAL ELEVATION & DETAIL

NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2.

2-VENT(1.50mx1.80m) ON BAINABOSHT KHAL AT KM 13.00 IN PODDER

BWDB, SATKHARA.

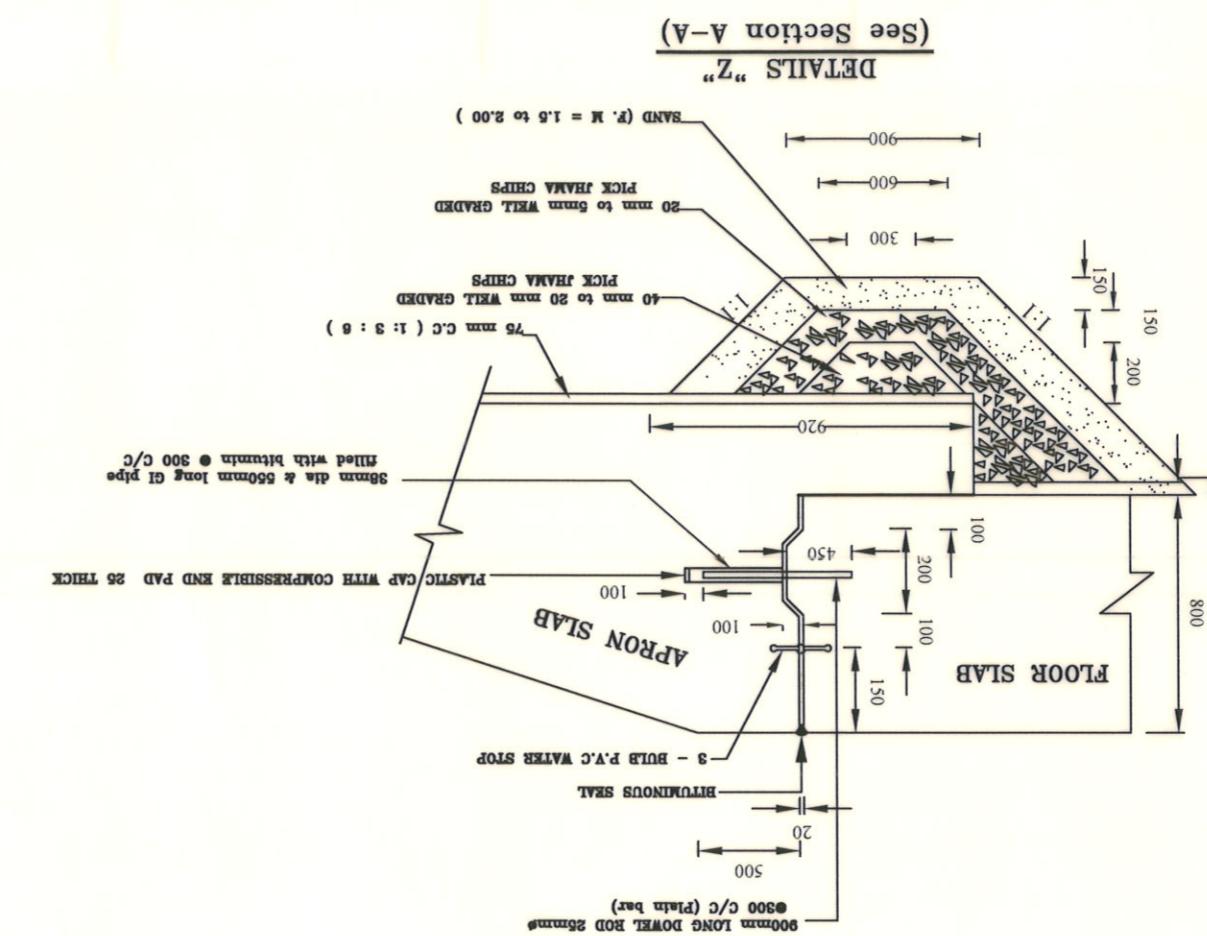
DESIGN OF DRAINAGE CUM FLUSHING REGULATOR

DRAINAGE IMPROVEMENT OF PODDER 1,2-6-8(EXTENSION)

Office of the Superintending Engineer

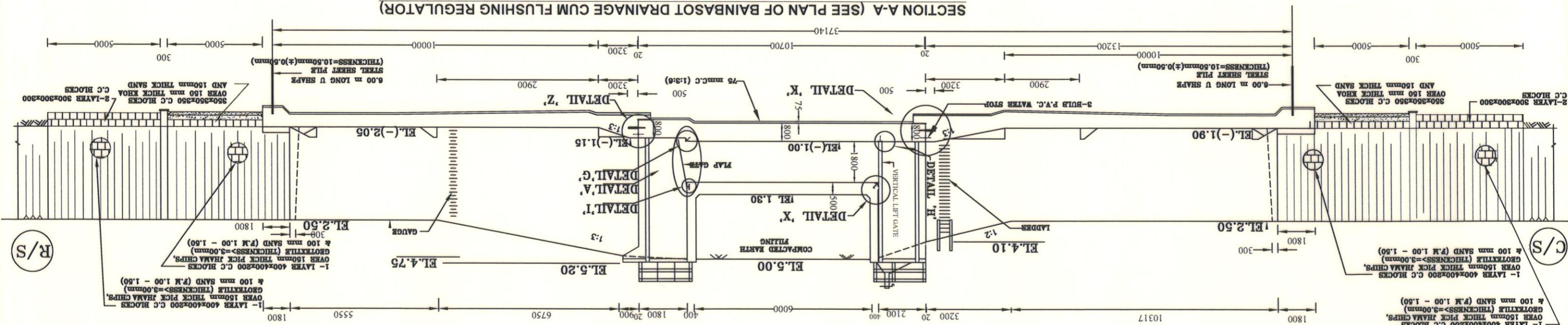
Design Circle-8

Bangladesh Water Development Board



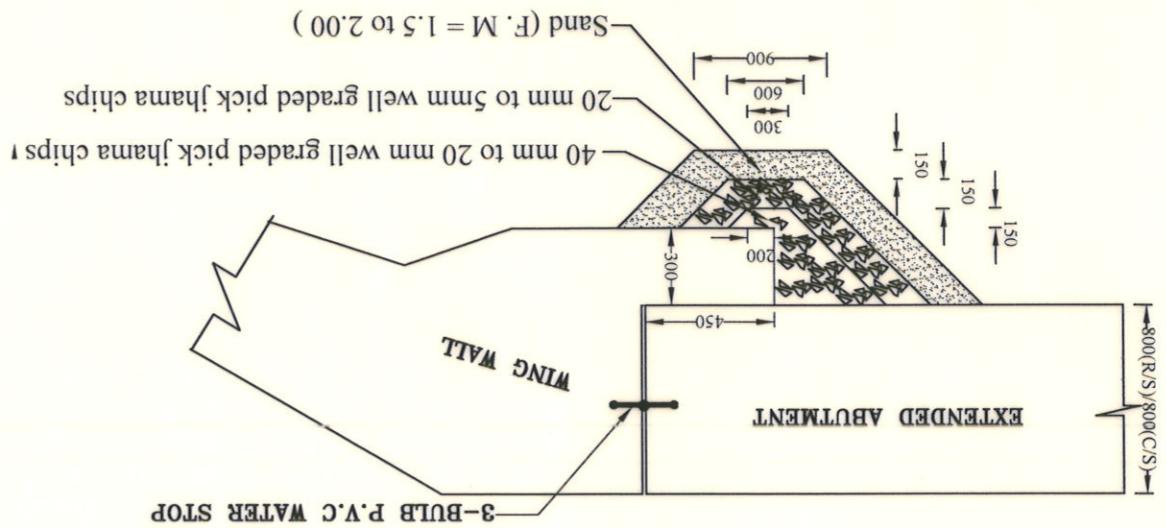
(Sand Pile Not Shown)

SECTION A-A (SEE PLAN OF BAINABOSHT DRAINAGE CUM FLUSHING REGULATOR)

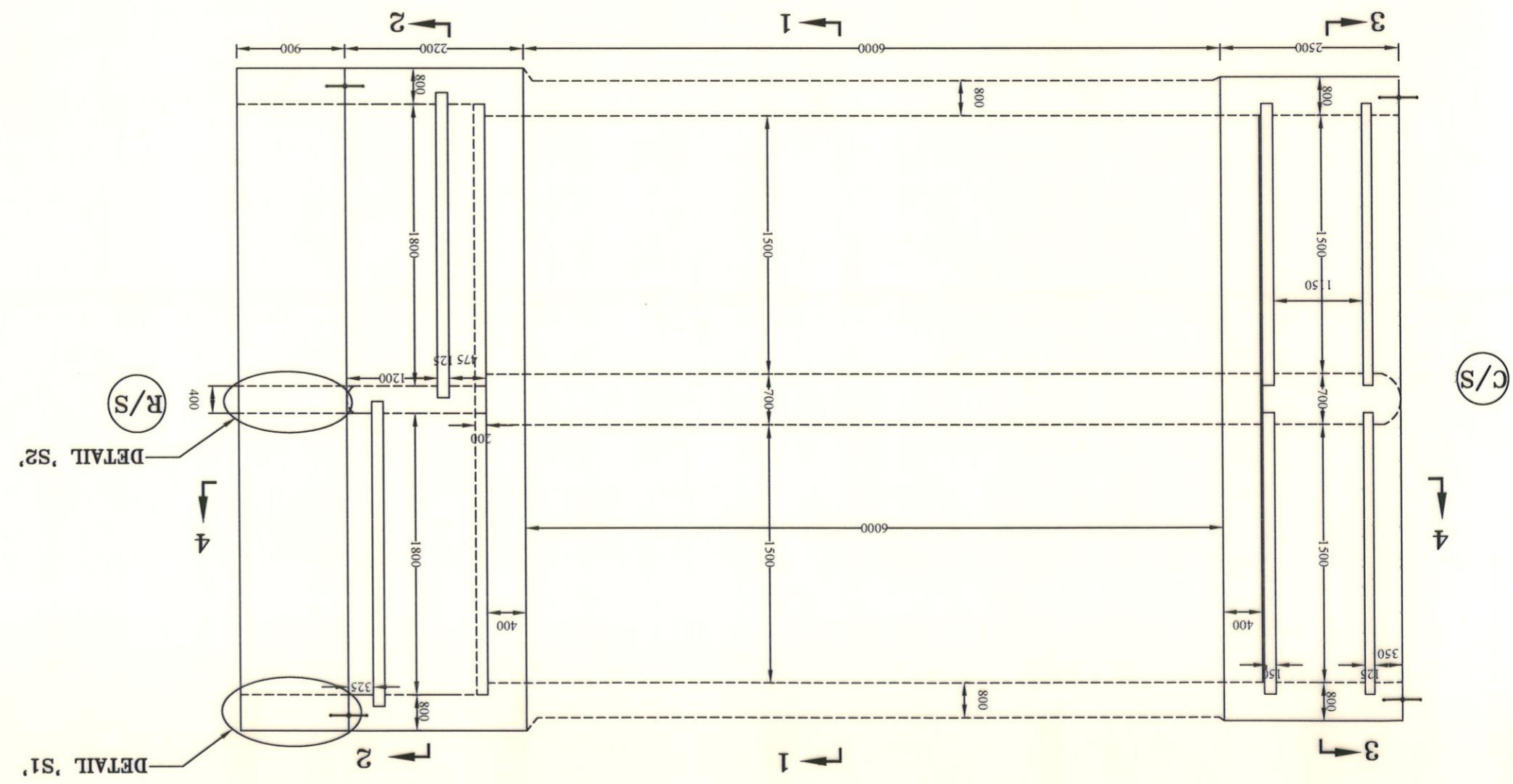


Bengaladesh Water Development Board		OFFICE OF THE SUPERINTENDENT ENGINEER DESIGN CIRCLE-8	DRAINAGE IMPROVEMENT OF POLDER 1, 2, 6-8 AND 6-8 EXTENSION DESIGN OF DRAINAGE CUM FLUSHING REGULATOR 2-VEN(T 1.50m X 1.80m) ON BANIBASOT KHAL AT KM 13.00 IN PODDER NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-Z BWD(B, SATKHIRA. APPROVED BY : ZAYED BIN SAIF(AE) SIGNED BY : JAKARIA PERVEZ, EE CHECKED & RECOMMENDED BY : MOHAMMAD SAIF UDDEEN
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EXPANSION JOINT DETAIL Y (SEE PLAN)



PLAN OF ABUTMENT AND PIER



MOHAMMAD SAIF UDDEEN), SE

AKARIA PERVEZ), EE
RECOMMENDED BY :


REINFORCEMENT DETAILS OF ABUTMENT & BARREL	APPROVED BY :	SIGNED BY :
<p>DESIGN OF DRAINAGE CUM FLUSHING REGULATOR 2-VENT(1.50mx1.80m) ON BAINBASOT KHAL AT KM 13.00 IN POLDER NO-6-(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2, BWDB, SATKHIRA.</p>		
<p>Office of the Superintendent Engineering Design Circle-8</p>		

Mangalore Water Development Board

Design Circle-8

VENT(1.50mX1.80m) ON BAINBASOT KHAL AT K

-8(E1) IN SA1 KHIRA DISTRIC1, UNDER SATI
DURGA SAWANIPUR.

www.mechanicsmag.com

REVIEW OF THEORIES OF RATIONALITY

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Page 1

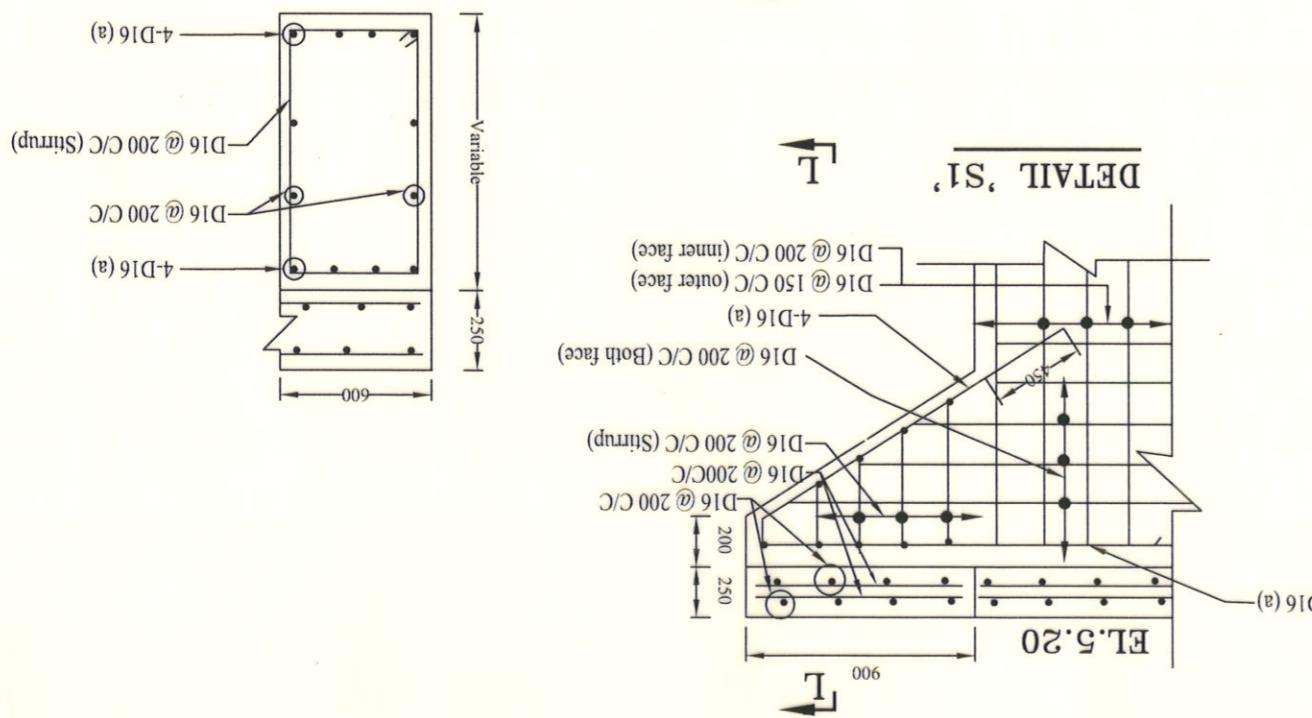
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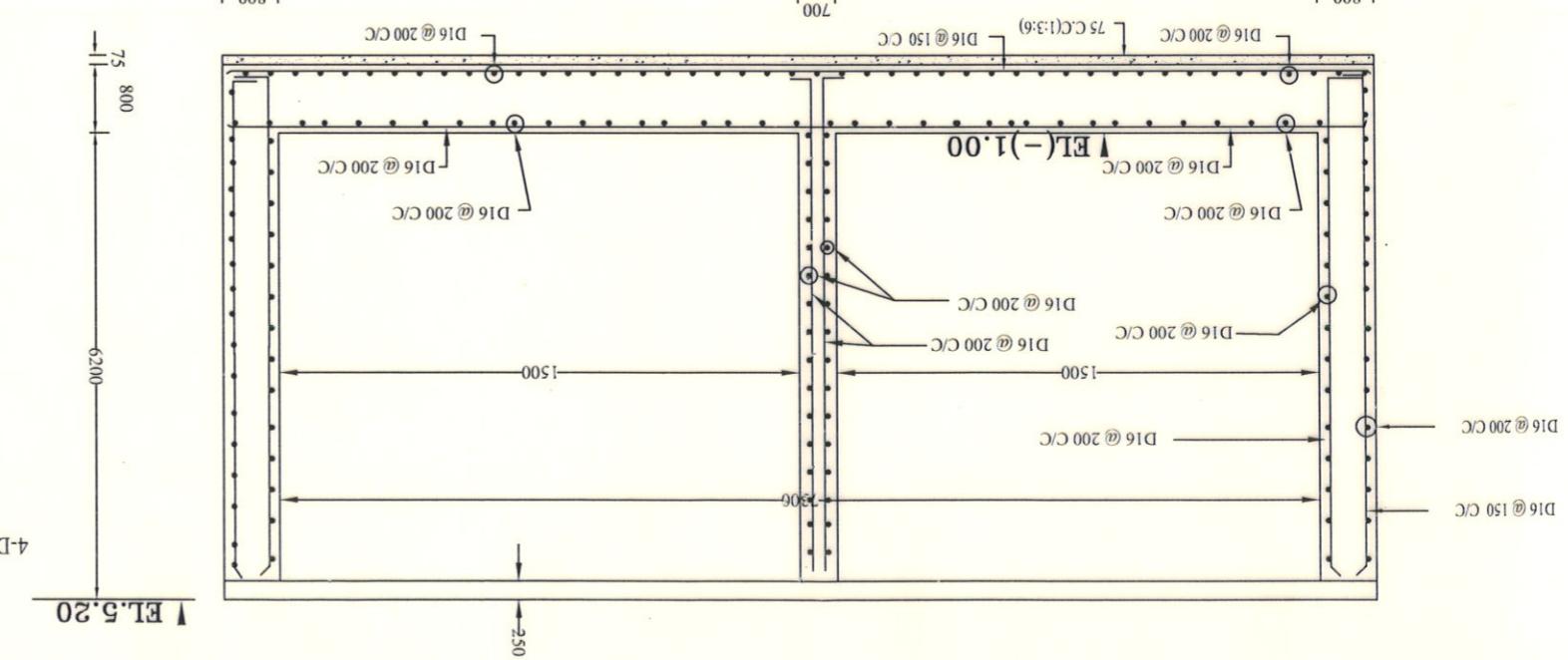
2019-2020

MONDAY, APRIL 25

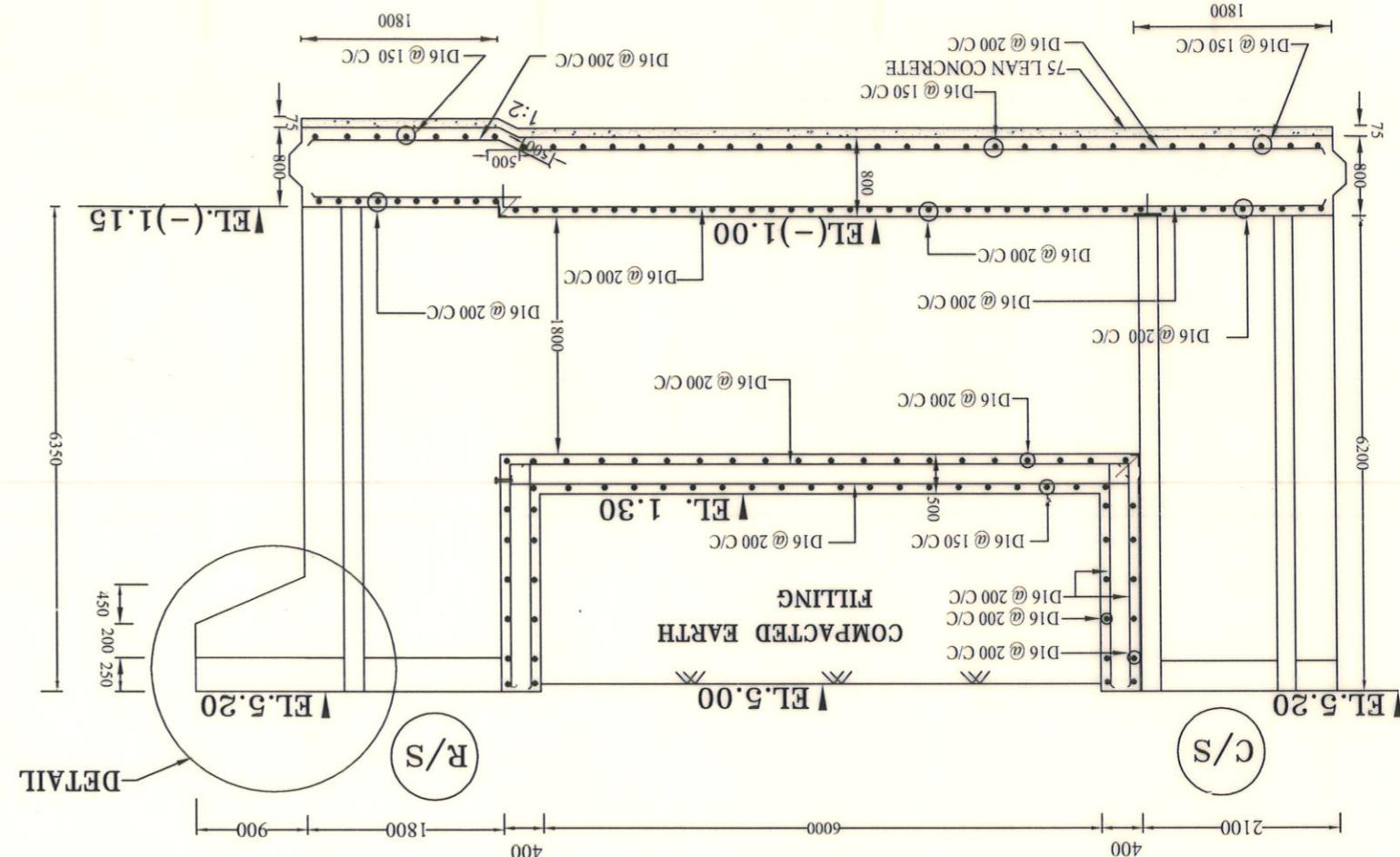
SECTION L-1



SECTION 3-3
(Sand Pile Not Shown)



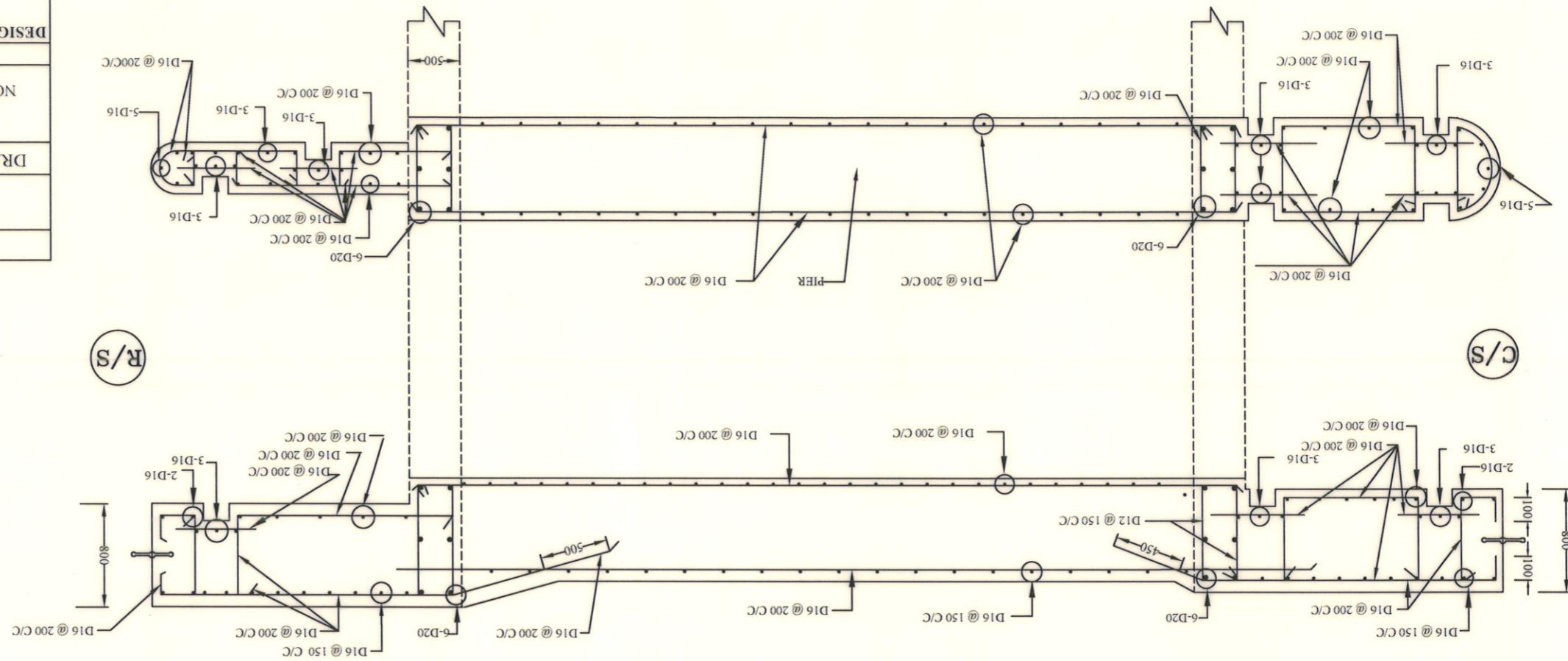
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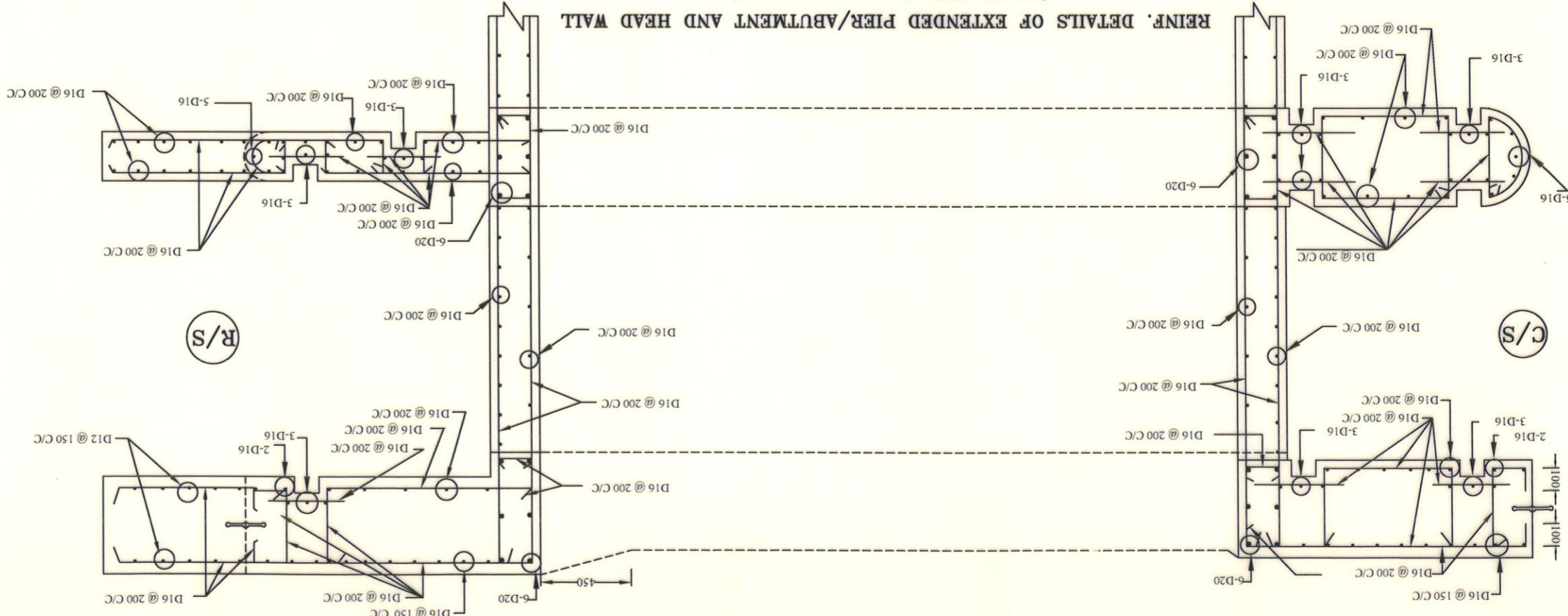
Sheet No 09 of 22

DATE: 23/11/2022 DWG. NO.: DC-8-0318-10/22
 (MOHAMMAD SAIF UDDIN), SE
 JAKARIA PERVEZ, EE
 CHECKED & RECOMMENDED BY:
 ZAYED BIN SAIF, AE
 APPROVED BY:
 DESIGNER OF REINFORCING DETAILS OF EXTENDED PIER/ABUTMENT AND HEAD WALL
 DRAINAGE IMPROVEMENT OF POLLDER 1, 2, 6-8 AND 6-8(EXTENSION)
 DESIGN OF DRAINAGE CUM PLUSHING REGULATOR
 NO-6-8(EXT) IN BANIBASOT KHAL AT KM 13.00 IN POLLDER
 2-VENNT(1.50mX1.80m) ON SATKHIRA DISTRICT, UNDER SATKHIRA DEM DIVISION-2.
 BWDB, SATKHIRA.
 DESIGN OF DRAINAGE CUM PLUSHING REGULATOR
 DRAINAGE IMPROVEMENT OF POLLDER 1, 2, 6-8 AND 6-8(EXTENSION)
 Office of the Superintending Engineer
 Design Circle-8
 Bangladesh Water Development Board

REINF. DETAILS OF EXTENDED PIER/ABUTMENT AND HEAD WALL
 (BELOW TOP SLAB OF CONDUIT)



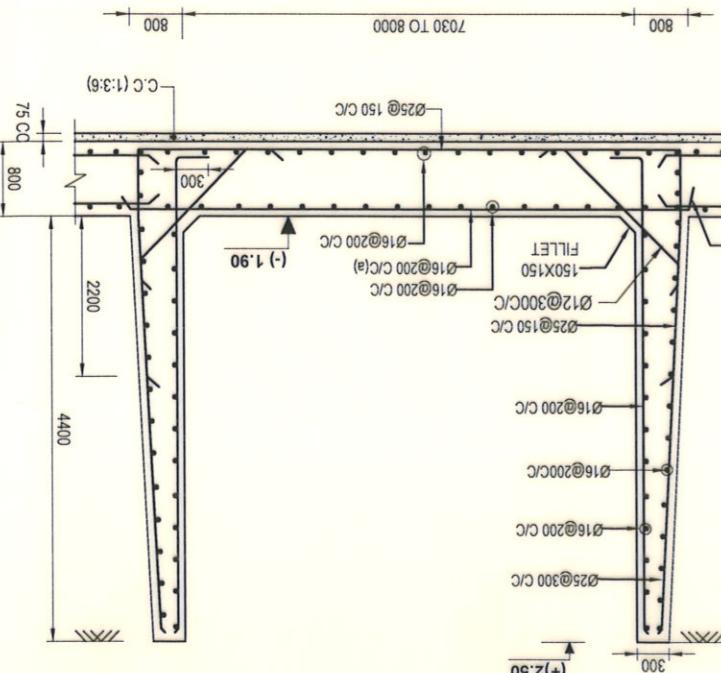
(ABOVE TOP SLAB OF CONDUIT)



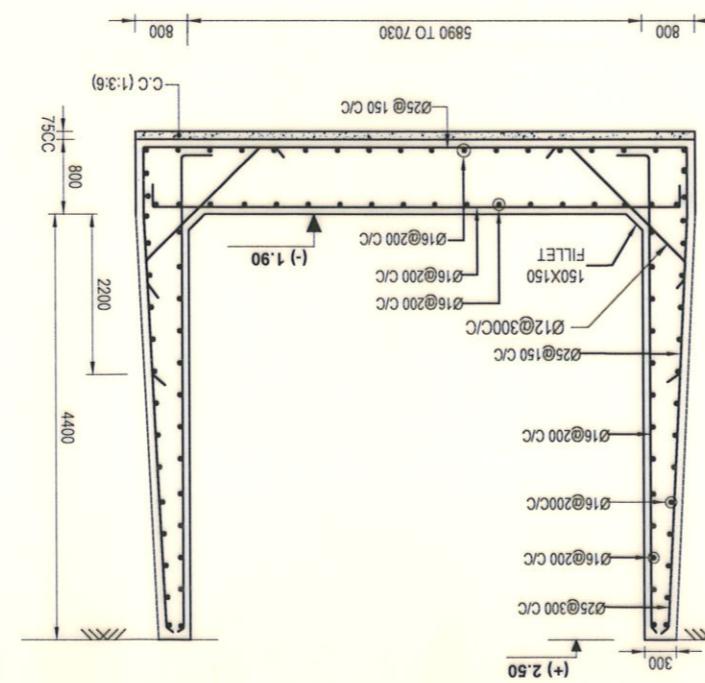
DATE: 23/11/2022 DWG. NO.: DC-8-0318-12/22	
(ZAKIRAH PERVEZ), AE CHECKED & RECOMMENDED BY :	
(MOHAMMAD SAIF UDDEEN), SE APPROVED BY :	
DESIGNED BY : <i>[Signature]</i>	
REINFORCEMENT DETAILS OF C/S APRON, WING WALL & RETURN WALL	
DESIGN OF DRAINAGE CUM FLUSHING REGULATOR NO-6-(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM 2-VENT(1.50mX1.80m) ON BAINABASOT KHAL AT KM 13.00 IN PODDER DIVISION-2, BWD, SATKHIRA.	
Design Circle-8 Office of the Superintending Engineer	
Bangladesh Water Development Board	

[BASE OF RETURN WALL NOT SHOWN]

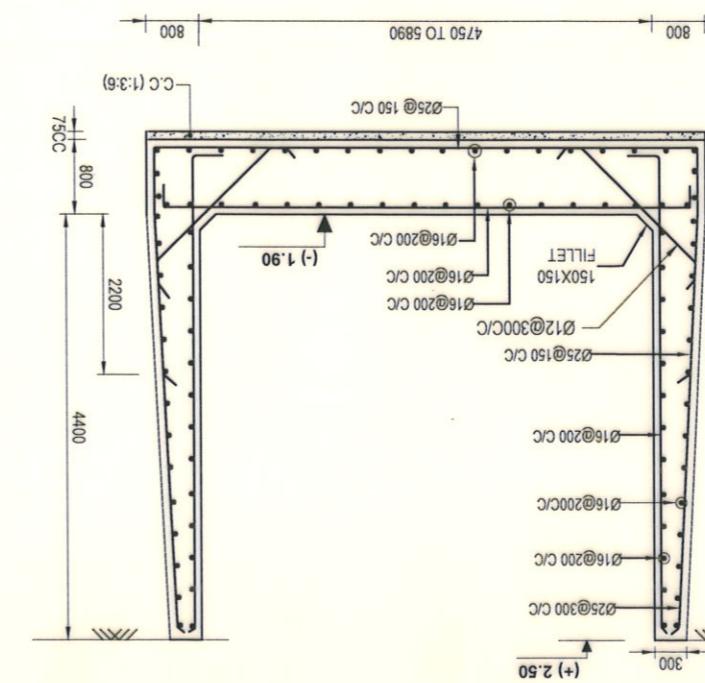
SECTION 8-8 (VALID FOR 3000 LENGTH)



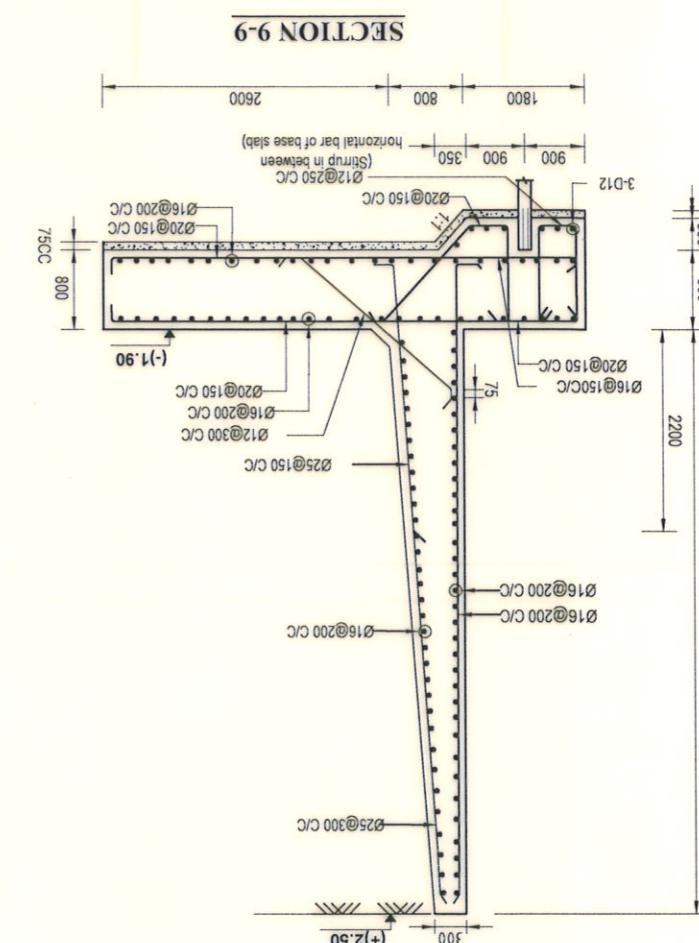
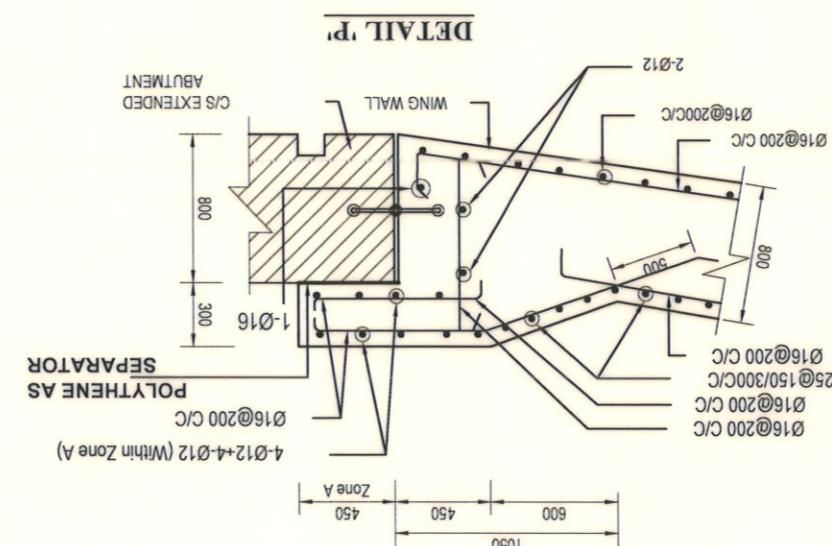
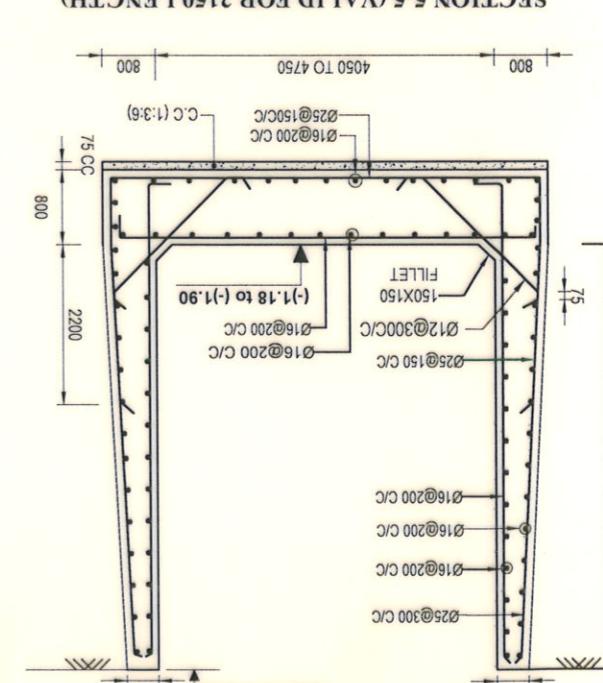
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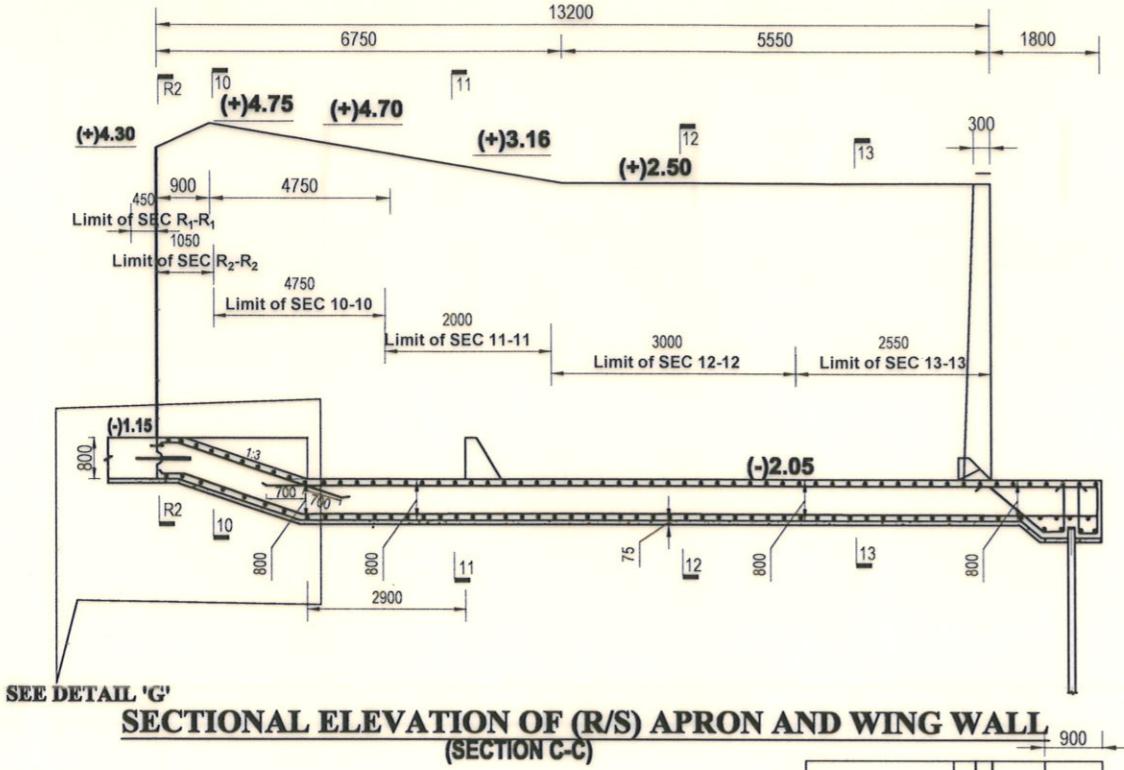
SECTION 6-6 (VALID FOR 3500 LENGTH)



SECTION 5-5 (VALID FOR 2150 LENGTH)



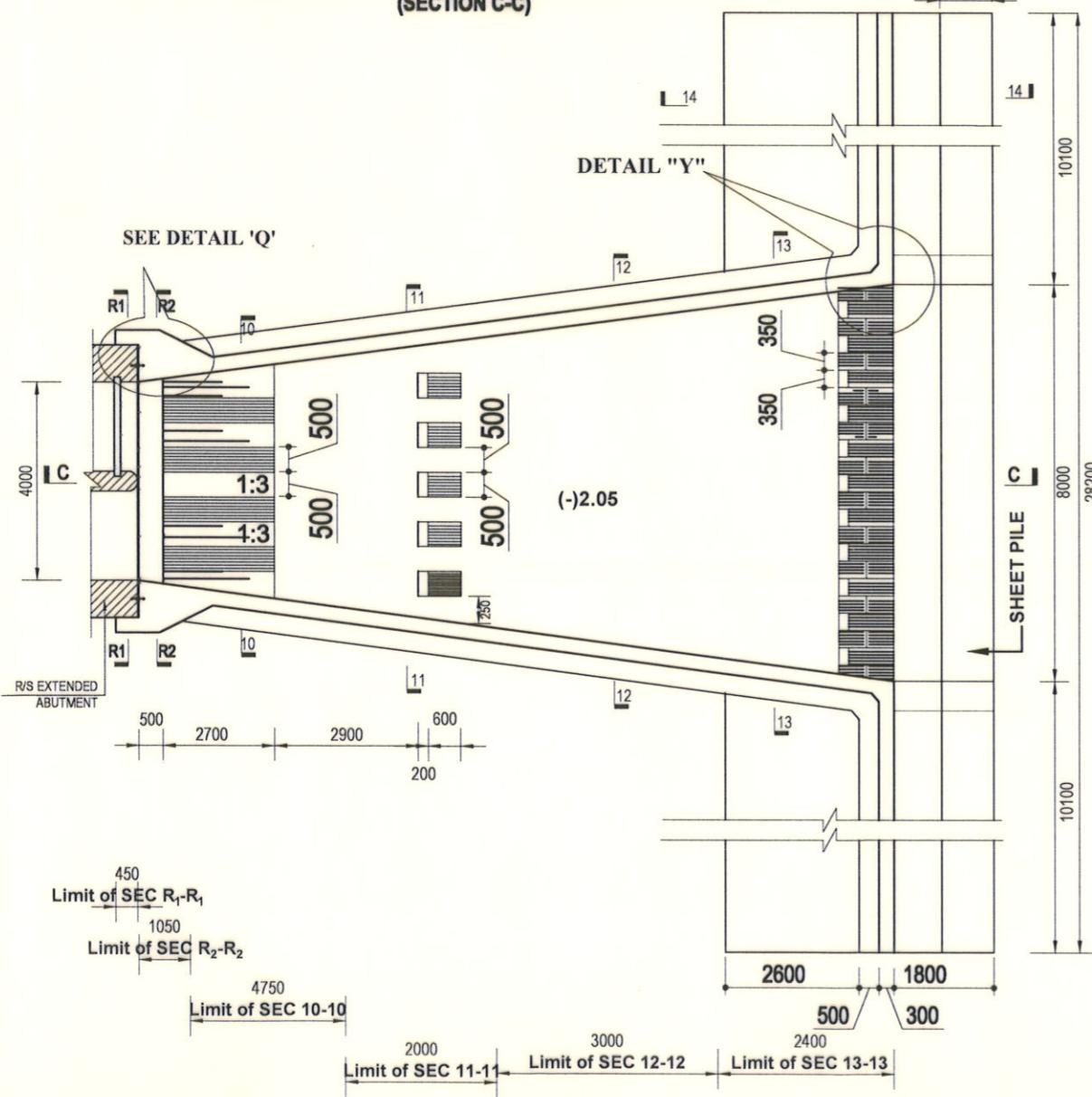
Scale: Not To Scale



SEE DETAIL 'G'

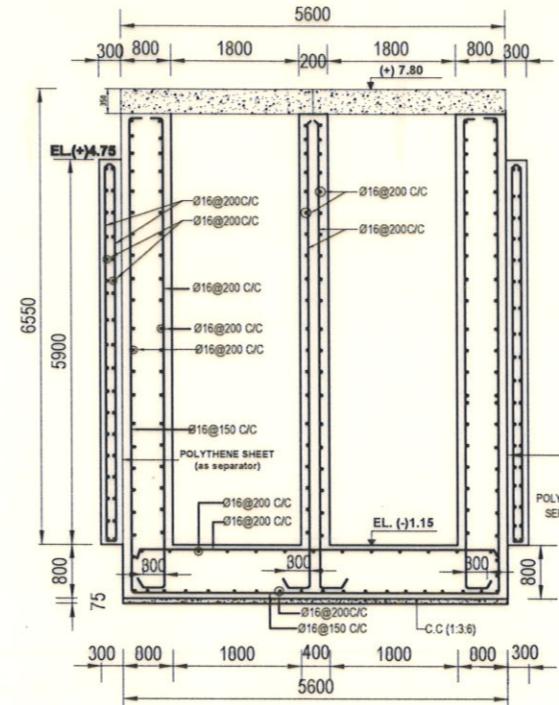
SECTIONAL ELEVATION OF (R/S) APRON AND WING WALL

(SECTION C-C)

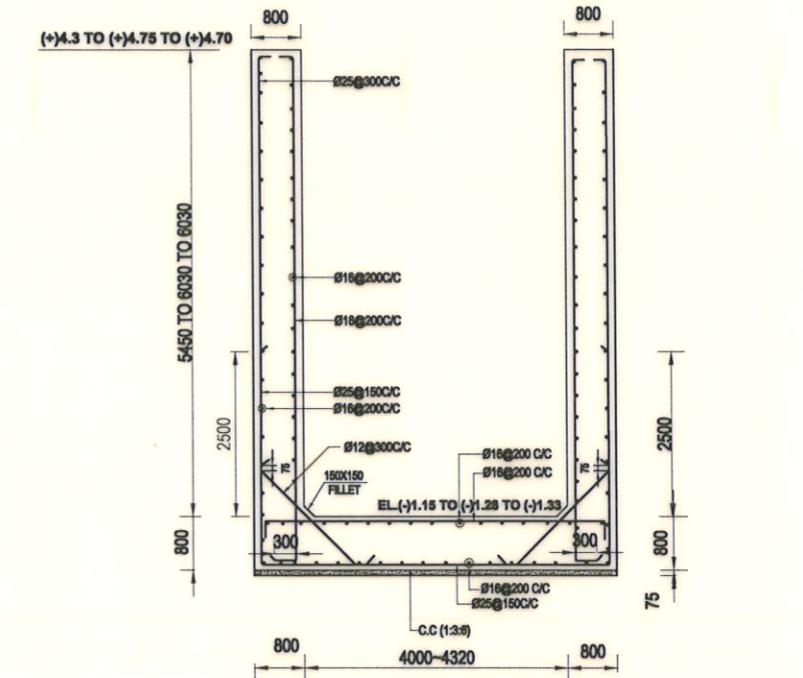


PLAN OF R/S APRON & RETURN WALL

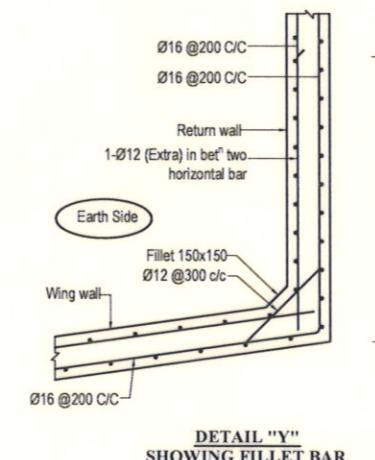
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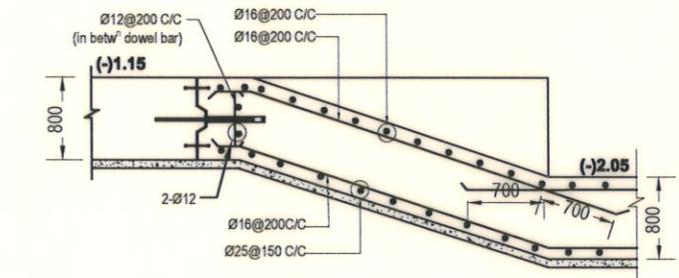
SECTION R₁-R₁ (VALID FOR 450 LENGTH IN EXTENDED PORTION OF BARREL)



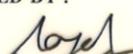
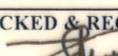
SECTION R₂-R₂ (VALID FOR 1050 LENGTH IN WING WALL PORTION)



DETAIL "Y"

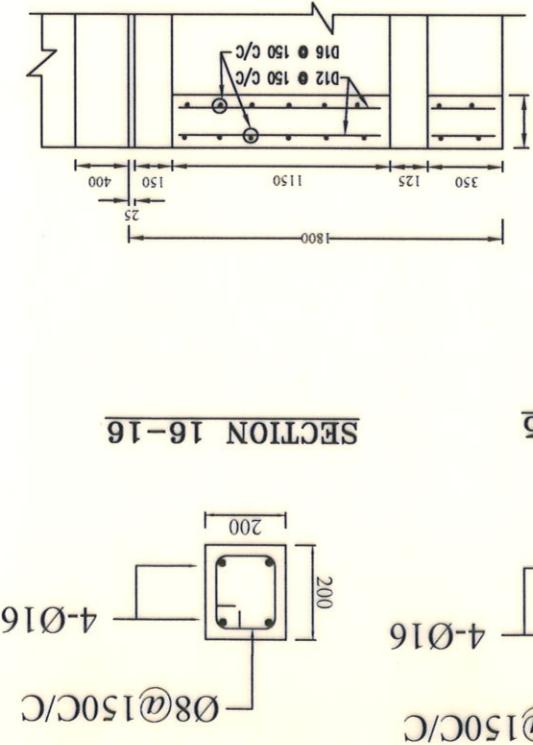


DETAIL 'G

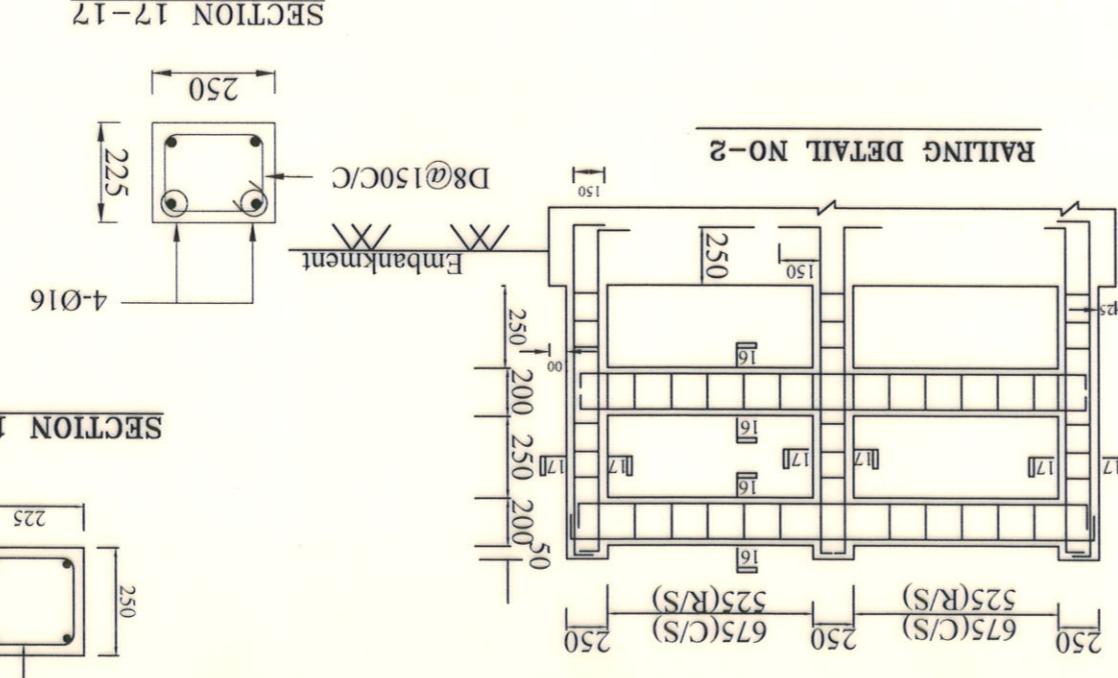
Bangladesh Water Development Board	
Office of the Superintending Engineer	
Design Circle-8	
DESIGN OF DRAINAGE CUM FLUSHING REGULATOR 2-VENT(1.50mX1.80m) ON BAINBASOT KHAL AT KM 13.00 IN POLDER NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA O&M DIVISION-2, BWDB, SATKHIRA.	
REINFORCEMENT DETAILS OF R/S APRON AND WING WALL	
DESIGNED BY :	APPROVED BY :
 (ZAYED BIN SAIF), AE	 23/11/22
CHECKED & RECOMMENDED BY :	
 (JAKARIA PERVEZ), EE	(MOHAMMAD SAIF UDDIN), SE
DATE:23/11/2022	DWG. NO.:DC-8-0318-13/22

12/11/67
P.M.

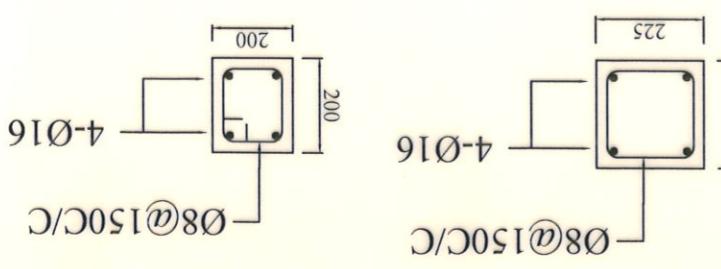
SECTION 18-18



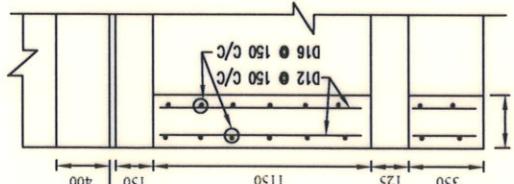
SECTION 16-16



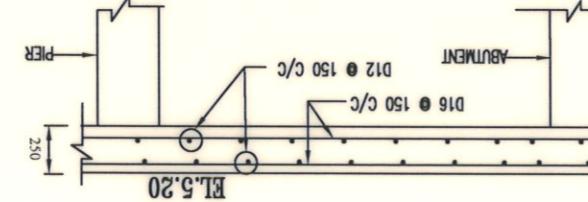
SECTION 15-15



SECTION 16-16

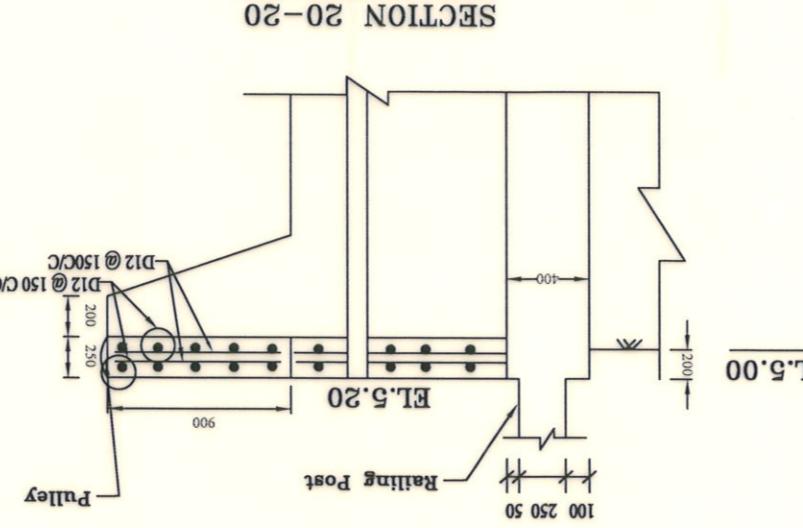


SECTION 18-18

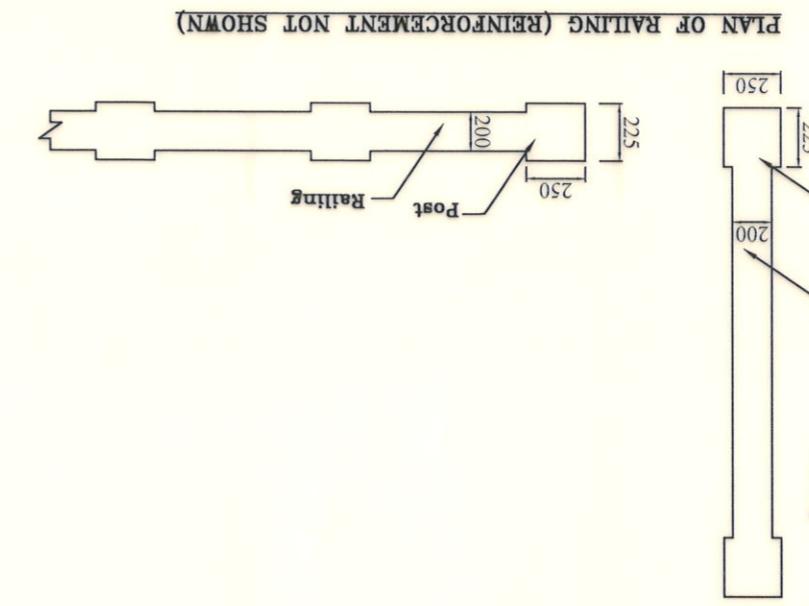


SECTION 19-19

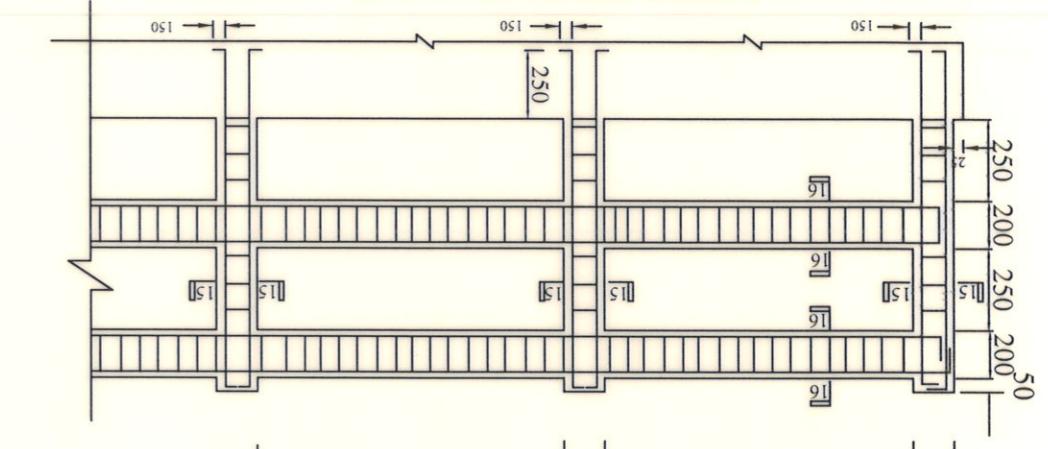
DETAILS OF OPERATING SLAB FOR VERTICAL LIFT GATE



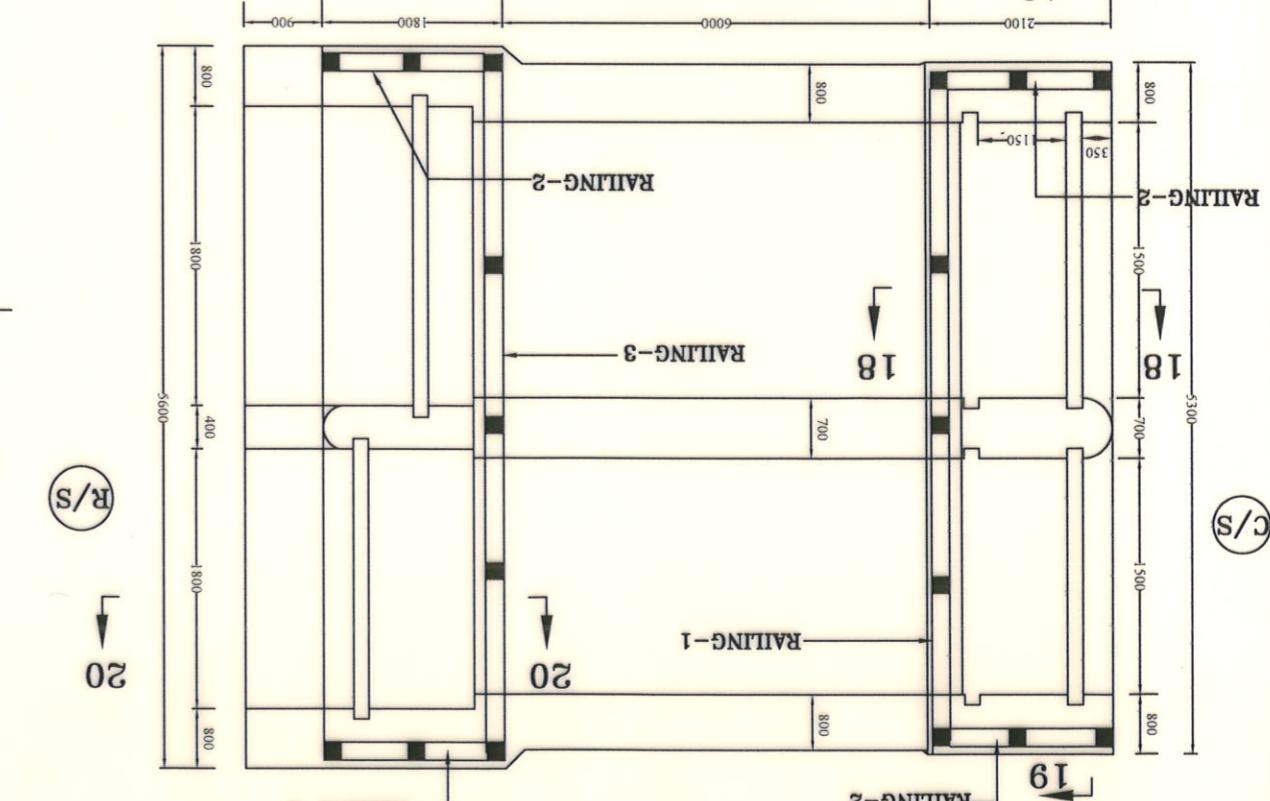
SECTION 20-2



RAILING DETAIL NO-1 & 3

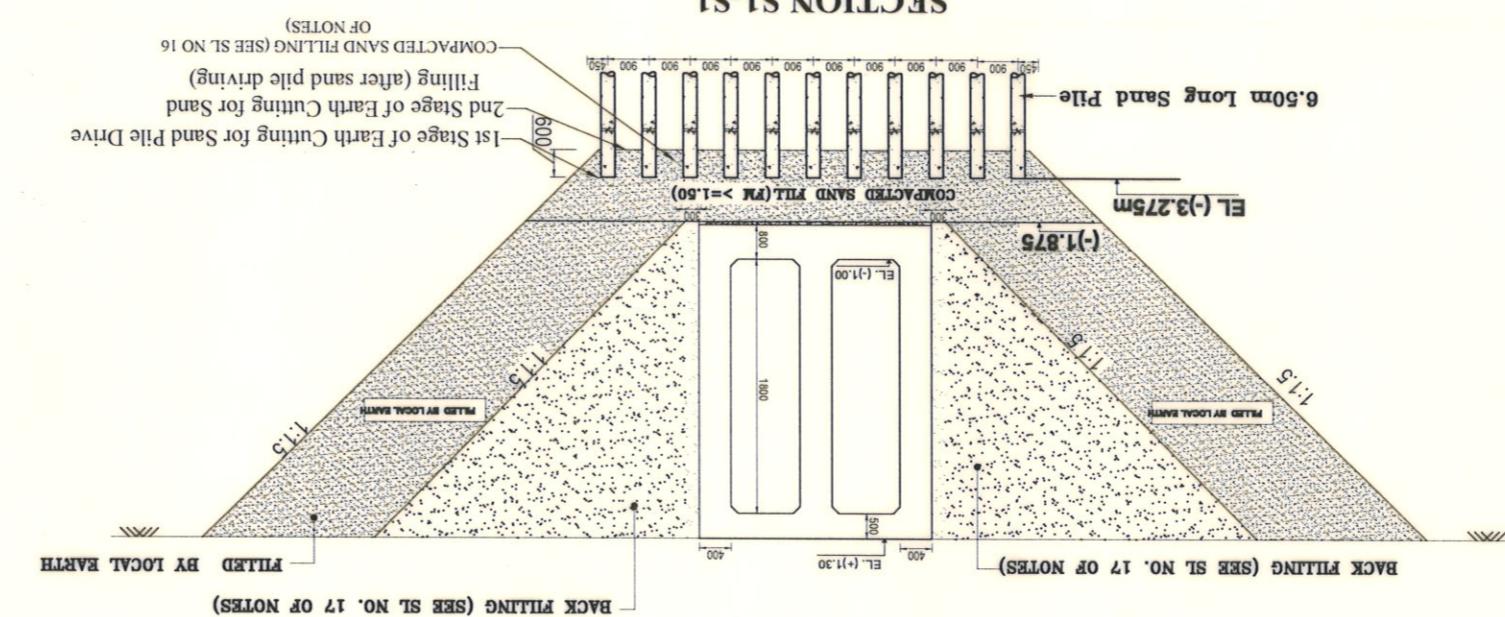


PLAN OF RAILING



DATE: 23/11/2022		DWG. NO.: DC-8-0318-19/22
(JAKARTA PERVEZ), AE		MOHAMMAD SAIF UDDIN, SE
(SAIF BIN SAIF), AE		CHEKED & RECOMMENDED BY :
<i>Nasir A</i>		DESIGNED BY : APPROVED BY :
SAND PILE DETAILS OF LONGITUDINAL PROFILE & BOX		
DESIGN OF DRAINAGE CUM FILUSHING REGULATOR NO-6-(8)EXT IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM 2-VENT(1.50mX1.80m) ON BANINBASOT KHAL AT KM 13.00 IN PODER DIVISION-2, BWD, SATKHIRA.		
DESIGN OF THE SUPERINTENDING ENGINEER OFFICE OF THE SUPERINTENDING ENGINEER		
Bangladesh Water Development Board Design Circle-8		

SECTION SI-SI



(MOHAMMAD SAFI UDIN), SE

(JAKARIA PERVEZ), EEE

(ZAYED BIN SAIF), AE

APPROVED BY:
SANDB PILE LAYOUT PLAN

DESIGNED BY:

(ZAYED BIN SAIF), AE

APPROVED BY:

(JAKARIA PERVEZ), EEE

DESIGNED BY:

UNDER SATKHIRA OEM DIVISION-2, BWDB, SATKHIRA.
ON BAINBASOT KHAL AT KM 13.00 IN PODER NO-6-8(EXT) IN SATKHIRA DISTRICT,
DESIGN OF DRAINAGE CUM FLUSHING REGULATOR-2-VENT(1.50x1.80m)

Design Circle-8

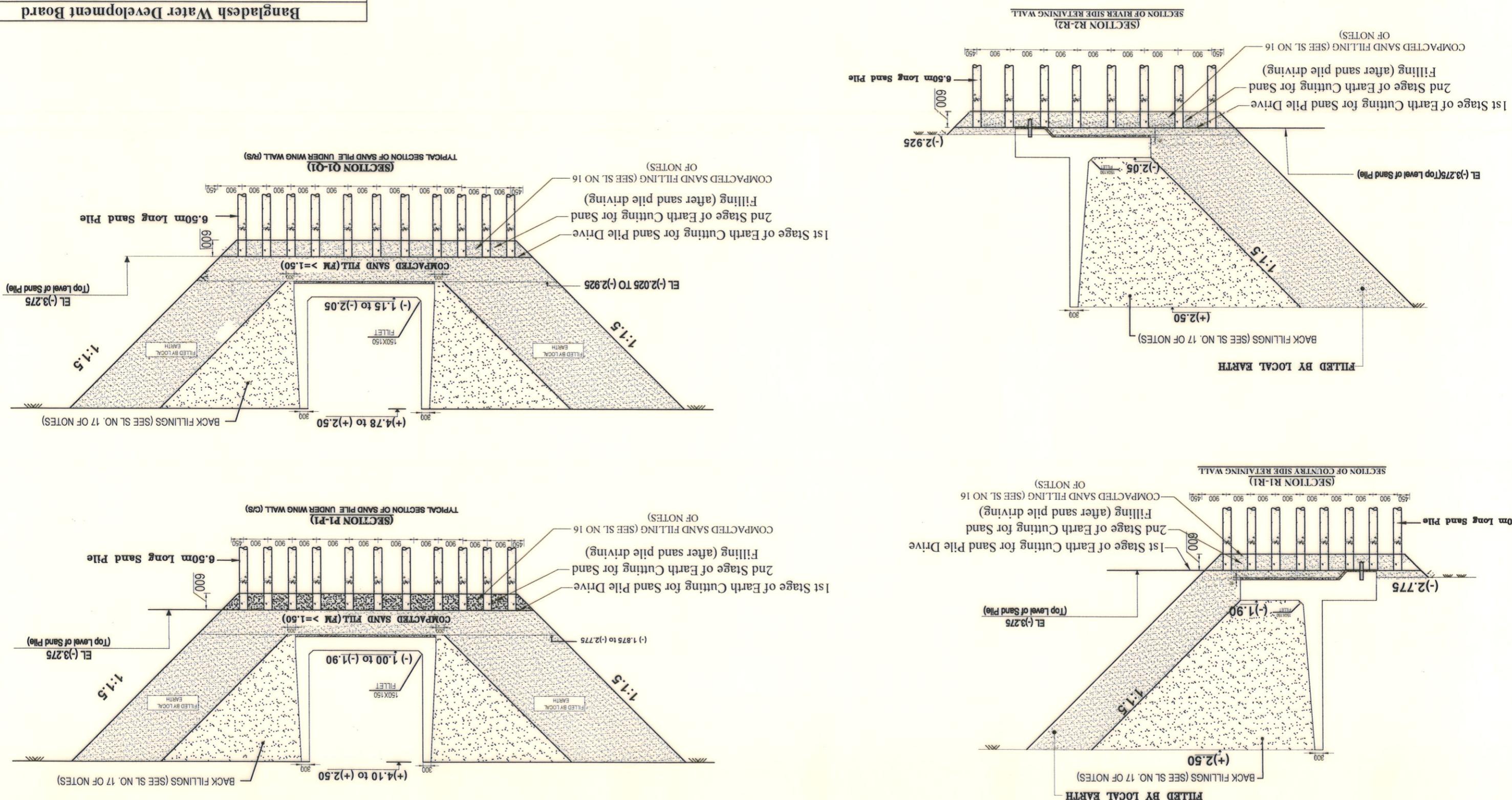
Office of the Superintending Engineer
Bangladesh Water Development Board

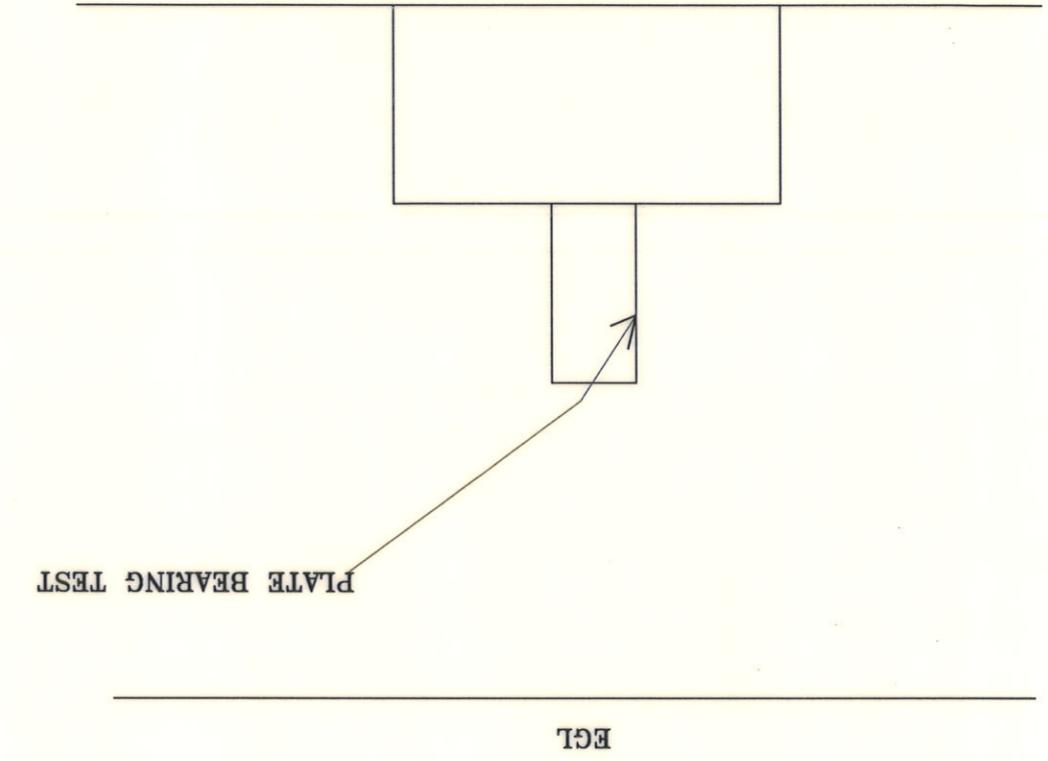
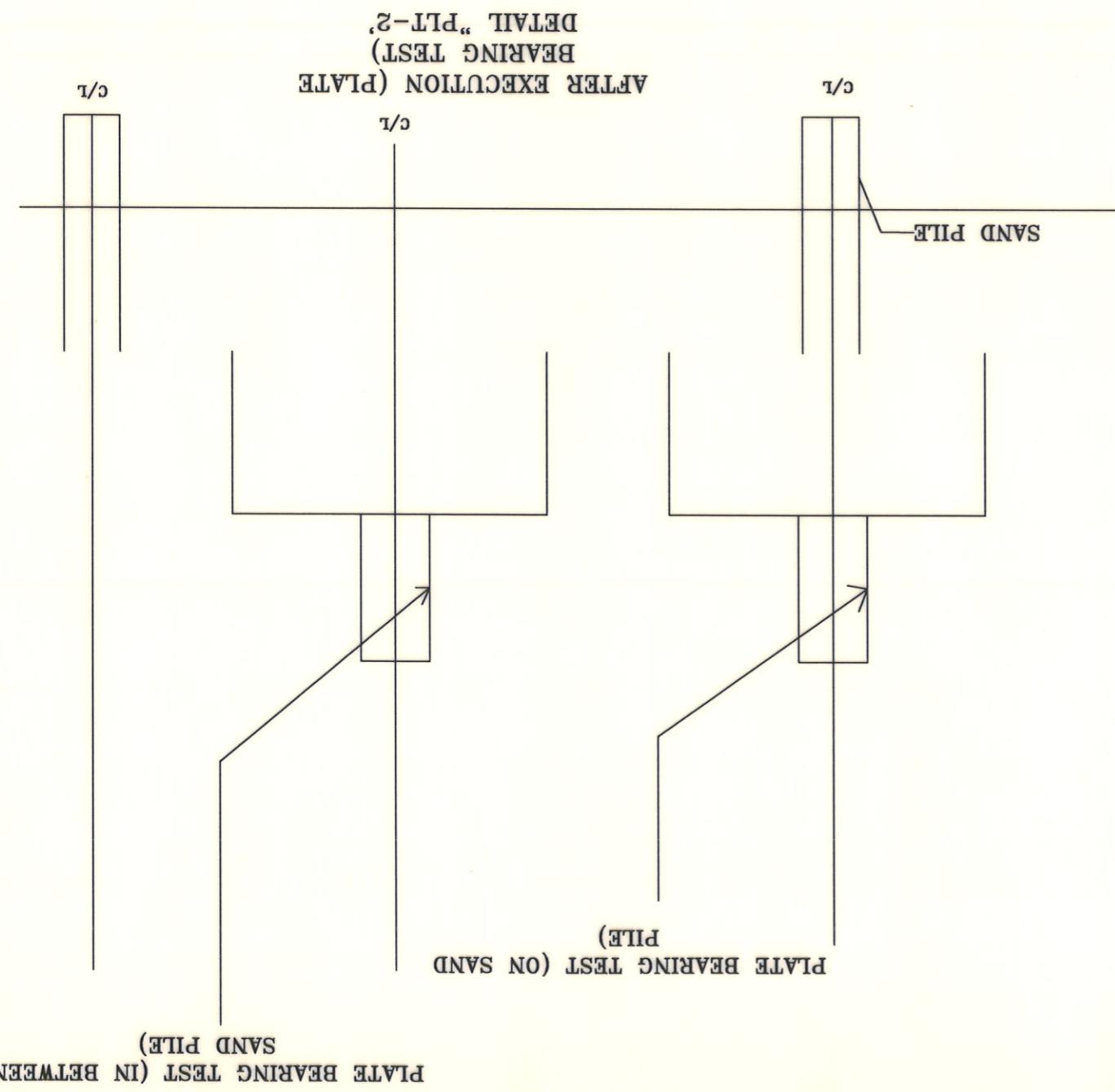
Design Circle-8

DESIGNED BY:

APPROVED BY:

DESIGNED BY :	
APPROVED BY :	
CHECKED & RECOMMENDED BY :	
(ZAYED BIN SAIYAF), AE	
<i>[Signature]</i>	
SECTION DETAILS OF SAND PILE	
DESIGN OF DRAINAGE CUM FLUSHING REGULATOR NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM 2-VENT(1.50m x 1.80m) ON BAINBASOT KHAL AT KM 13.00 IN PODDER DIVISION-2, BWDB, SATKHIRA.	
Design Circle-8 Office of the Superintending Engineer	
Bangladesh Water Development Board	





- SAND PILE OF 4.5 M LENGTH WITH 300MM CASING DIA. AS SPECIFIED IN THE DRAWING SHALL HAVE STAND TO BE USED IN PILING SHALL BE FREE FROM ALL ORGANIC AND FOREIGN MATERIALS AND SHALL HAVE $F_M = 2.50$.
- TO BE CONSTRUCTED AS PER STANDARD DISPLACEMENT METHOD.
- DIAMETER LENGTH CONTINUITY OF PILE SHALL HAVE TO BE CHECKED BY MEASURING SAND FORCE VOLUME FOR EACH EXECUTED PILE. THE SAND FORCE VOLUME PER METER AND PER PILE SHALL NOT BE LESS THAN $0.35 \text{ M}^2/\text{M}$ AND 2.75 M^2 RESPECTIVELY (ITEM CODE: 44-00-40).
- BEFORE EXECUTION AND AFTER EXECUTION OF SANDPILE PLATE BEARING TEST MUST BE CONDUCTED (DETAILS SHOWN IN PLT-1 & PLT-2).
- FOR COHESIVE SOIL CONSOLIDATION TEST SHOULD BE DONE AS PER PWD SCHEDULE 31.10.5.
- BEFORE THE CONSTRUCTION, PLATE BEARING TEST RESULT AND CONSOLIDATION TEST RESULT SHALL BE SENT TO THE CONCERNED DESIGN OFFICE (DESIGN CIRCLE-8).
- DATA OF PLATE BEARING TEST MUST BE SENT TO THE CONCERNED DESIGN OFFICE (DESIGN CIRCLE-8) FOR REVIEWAL OF FOUNDATION TREATMENT.

(MOHAMMAD SAIF UD DIN), SE

(JAKARTA PERVEZ), EE

CHECKED & RECOMMENDED BY:

(SAVED BIN SAIF), AE

APPROVED BY:

[Signature]

DESIGNED BY:

[Signature]

DETAILS OF NAME PLATE

BWB, SATKHIRA.

NO-6-8(EXT) IN SATKHIRA DISTRICT, UNDER SATKHIRA OEM DIVISION-2,

2-VENT(1.50mx1.80m) ON BANIBASOT KHAL AT KM 13.00 IN PODDER

DESIGN OF DRAINAGE CUM FLUSHING REGULATOR

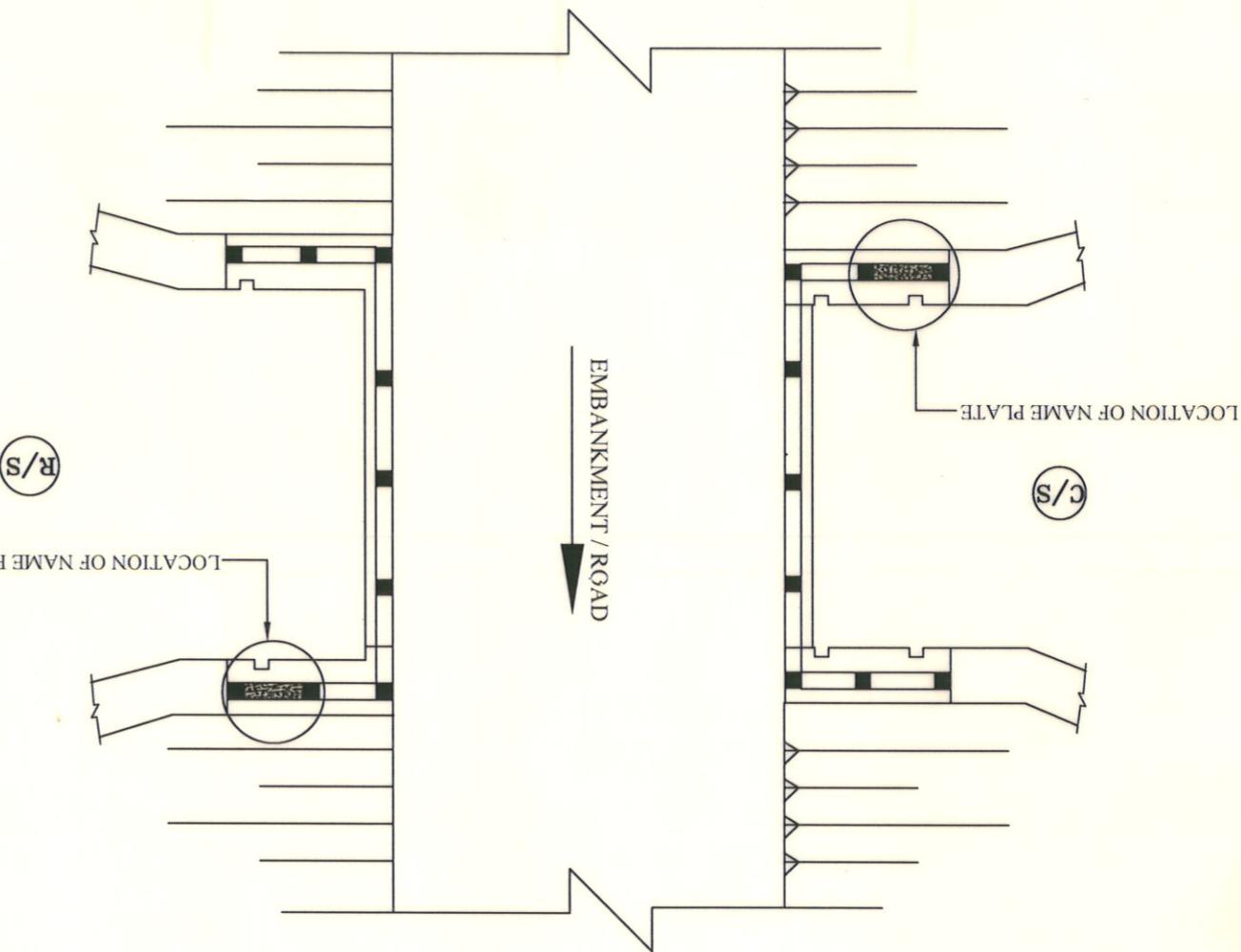
DRAINAGE IMPROVEMENT OF PODDER 1,2-6-8 AND 6-8(EXTENSION)

Office of the Superintendent Engineering Engineer

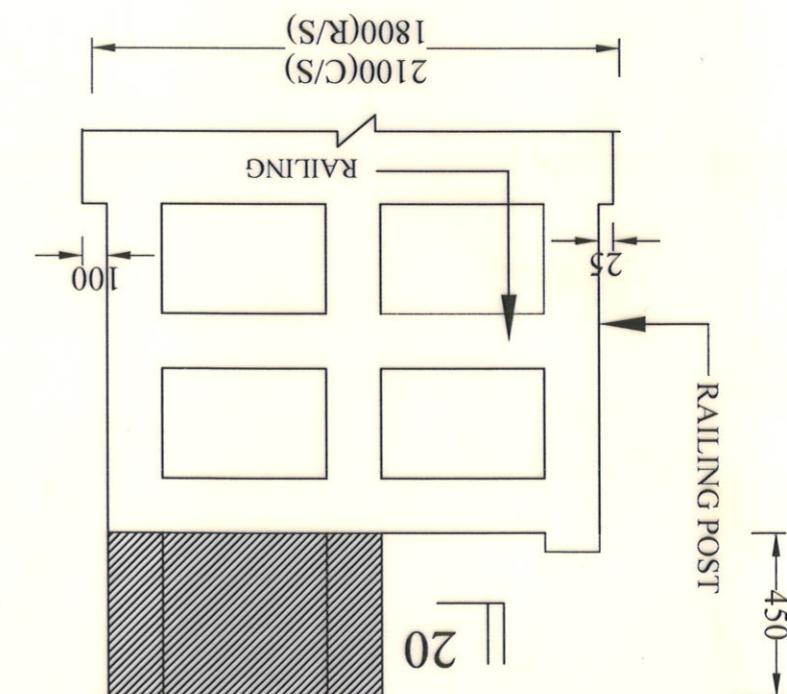
Design Circle-8

Bangladesh Water Development Board

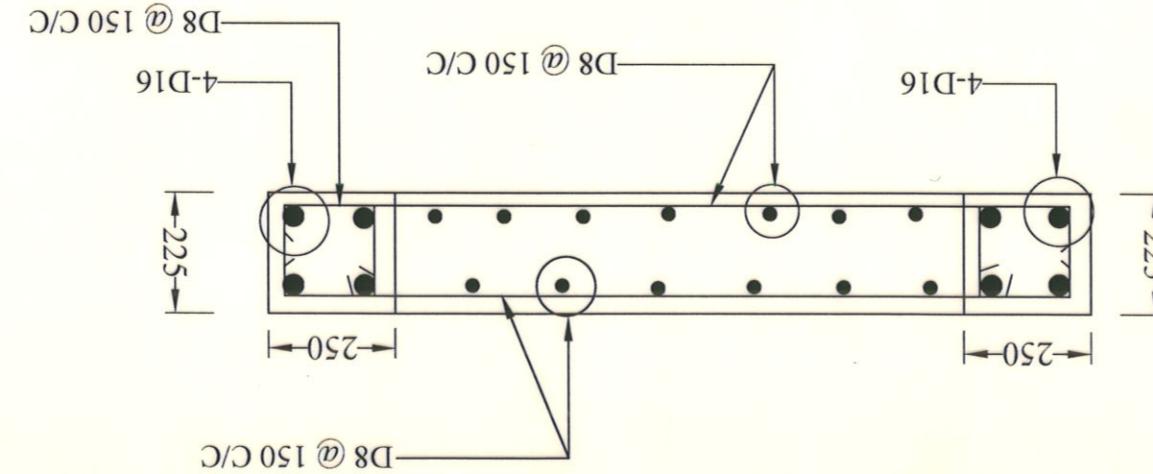
PLAN SHOWING NAME PLATE LOCATION ON REGULATOR



ELEVATION



SECTION 20-20



- THE NAME PLATE SHOULD BE PLACED AT THE LEFT SIDE OF BOTH APPROACHES.
- THE SIZE OF LETTER SHOULD BE 30 mm TO 40 mm & IT SHOULD BE ENGRAVED IN THE PLATE.
- THE COLOR OF THE LETTER SHOULD BE WHITE ON MEDIUM BLUE SURFACE.
- THE NAME PLATE SHOULD BE CAST MONOLITHICALLY WITH THE POST AND THE RAILINGS SHOULD BE WRITTEN ON THE PLATE AFTER PLASTERING.

1. THE NAME PLATE SHALL BE PLACED AT THE LEFT SIDE OF BOTH APPROACHES.
2. THE SIZE OF LETTER SHOULD BE 30 mm TO 40 mm & IT SHOULD BE ENGRAVED IN THE PLATE.
3. THE COLOR OF THE LETTER SHOULD BE WHITE ON MEDIUM BLUE SURFACE.
4. THE NAME PLATE SHOULD BE CAST MONOLITHICALLY WITH THE POST AND THE RAILINGS SHOULD BE WRITTEN ON THE PLATE AFTER PLASTERING.

NOTES