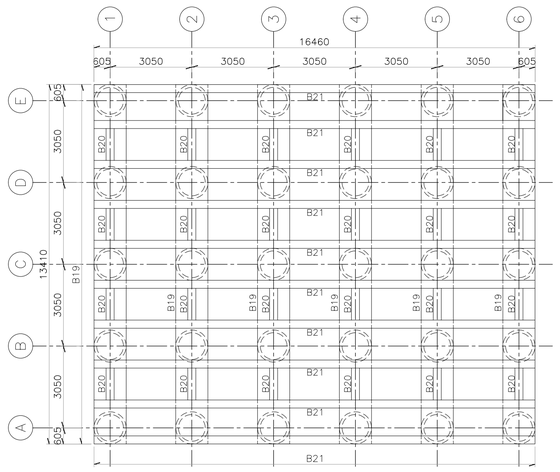
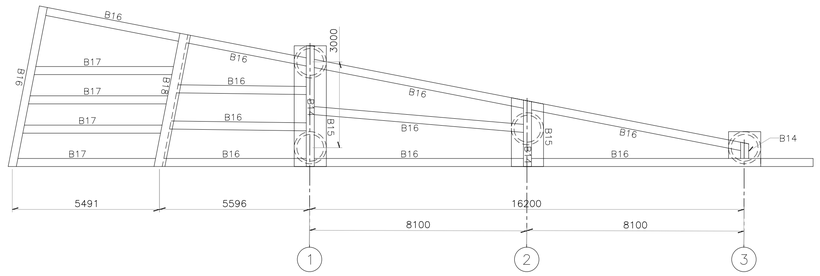
PRODUCED BY AN AUTODESK STUDENT VERSION



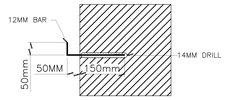
LAYOUT OF NEW PIER HEAD
1:100



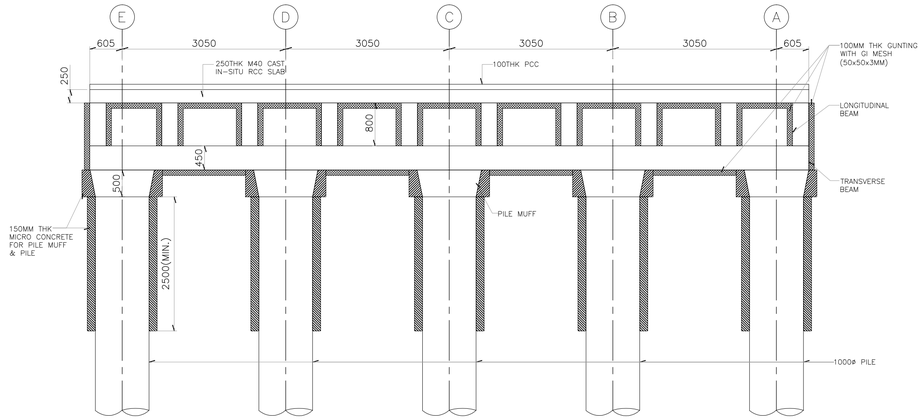
TRIANGULAR PORTION OF JETTY HEAD
1:100

SCHEDULE OF BEAM FOR TRIANGLE PORTION			
BEAM NO (B)	SIZE OF BEAM		QTY.
	B(MM)	D(MM)	
B14	300	800	3 NOS.
B15	1200	450	2 NOS.
B16	600	800	10NOS.
B17	300	300	4 NOS.
B18	300	800	1 NOS.

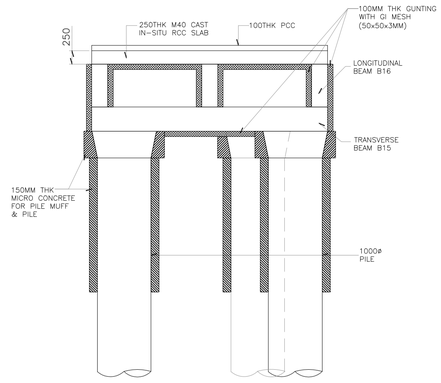
SCHEDULE OF BEAM FOR NEW PIER HEAD (30 PILE GROUP)			
BEAM NO (B)	SIZE OF BEAM		QTY.
	B(MM)	D(MM)	
B19	1200	450	5 NOS.
B20	300	800	24 NOS.
B21	300	800	10 NOS.



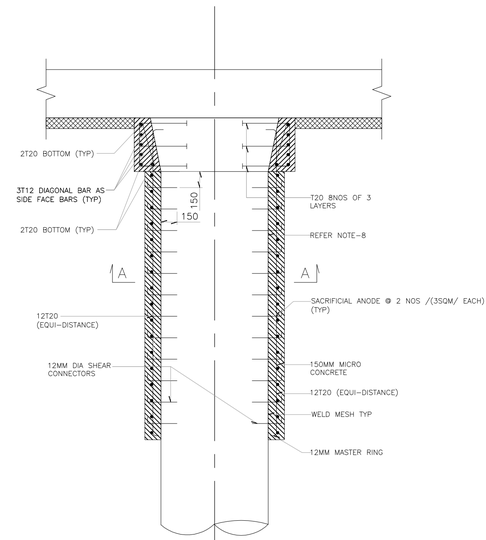
POSITIONING OF SHEAR CONNECTORS
(PER 0.3M²)
1:50



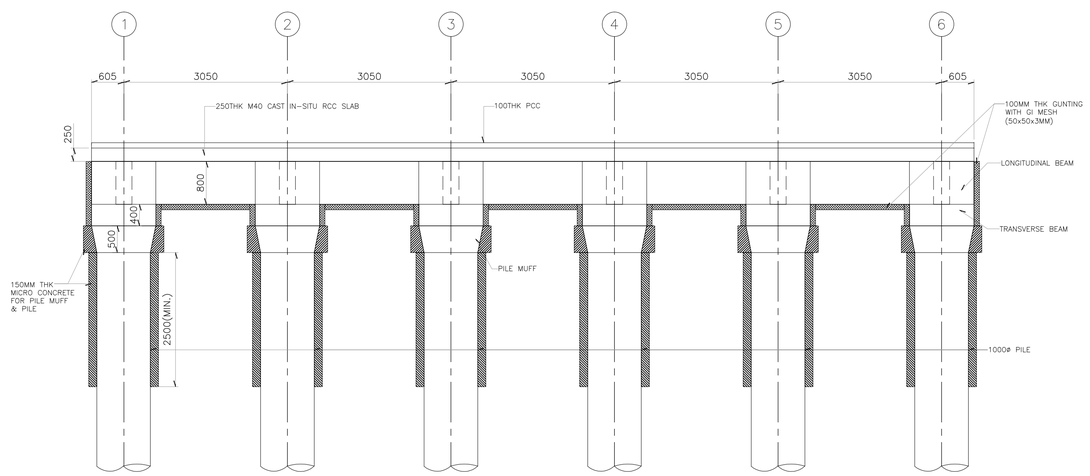
ELEVATION OF NEW PIER HEAD ALONG GRID-1
1:50



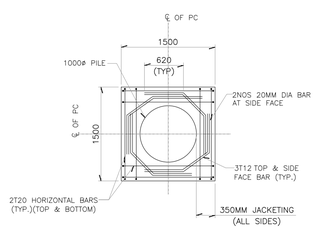
ELEVATION OF TRIANGULAR PORTION OF JETTY HEAD ALONG GRID-1
1:50



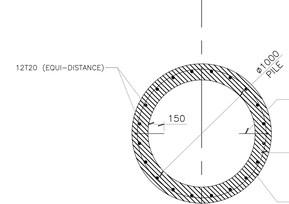
CROSS SECTION FOR PILE CAP & RETROFITTING OF PILE (FOR PILE 1000MMØ)
REINFORCEMENT DETAIL
1:25



ELEVATION OF NEW PIER HEAD ALONG GRID-A
1:50



MUFF DETAIL FOR 1000MM DIA COLUMN
1:50



SECTION B-B
1:25

NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED AND ALL ELEVATIONS ARE IN METERS WITH RESPECTIVE TO CHART DATUM
2. GRADE OF CONCRETE MIX SHALL BE M-40 CONFIRMING TO IS 456-2000.
3. REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE 500D CONFIRMING TO IS 1786-2007.
4. BAR BENDING SCHEDULE OF ALL REINFORCEMENT SHALL BE PREPARED AT SITE BY THE VENDOR
5. UNLESS OTHERWISE MENTIONED DEVELOPMENT LENGTH SHALL BE TAKEN AS 45 X DIAMETER.
6. NOT MORE THAN 50% OF REINFORCEMENT BARS SHALL BE LAPPED AT A PARTICULAR SECTION.
7. CLEAR COVER TO ALL REINFORCEMENT (INCLUDING LINKS) IN VARIOUS RCC ELEMENTS SHALL BE TAKEN FOLLOWS
   A. PILE CAP = 75MM
   B. OTHER RCC MEMBERS = 50MM
   C. PILE = 75MM
   D. CORBEL= 50MM
8. EXISTING SURFACE TO BE CLEANED AND HACKED AND PROVIDE GALVANIZED WELD MESH APPLY EPOXY BONDING AGENT AS PER SPEC BEFORE POURING MICRO CONCRETE (TYP)
9. ANCHOR LENGTH 250MM (DESIGN REQUIREMENT, ANCHOR LENGTH FOR REINFORCEMENT 450MM, HOWEVER, THAT SHALL BE 250MM AT SITE, DUE TO PRACTICAL CONSTRAINTS CLAIMED).
10. SHEAR CONNECTOR -1NO. FOR 0.3M² SURFACE AREA OF THE BEAMS, COLUMNS AND PILE CAPS.
11. SACRIFICIABLE ANODE -1NO. PER 3M² SURFACE AREA OF BEAMS, COLUMNS, PILE CAPS AND DECK SLAB.
12. ALL REINFORCEMENT SHALL BE CONFIRMING TO IS13920 2016 DUCTTILE CODE.

NOTE:

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OLD DRAWINGS OF EXISTING STRUCTURE AND CONFIRM THE SAME WITH SITE CONDITION BEFORE THE START OF WORK.

FINAL GFC DRAWING

REV.	DATE	DESCRIPTION	DESIGN	CHK'D	APP'D
R0-A	29.09.21	FOR APPROVAL			

ENGINEERING CONSULTANT
INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

CLIENT NAME
DEENDAYAL PORT TRUST
KANDLA, GUJARAT

PROJECT NAME
PROPOSED OIL JETTY NO.3
AT KANDLA PORT

TITLE
BEAM LAYOUT FOR PIER HEAD & TRIANGLE PORTION

DRAWN: AS	DWG No.	REV.
SCALE: AS SHOWN	IITB_DPT_GFC_OJ-3_03	R0-A

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