





A	LIST OF DRAWINGS					LIST OF DRAWINGS					
	S.NO.	DRAWING NO.	DESCRIPTIONS	DATE	REV	S.NO.	DRAWING NO.	DESCRIPTIONS		REV	
	GENERAL										
	1	IITM-DPA-VAD-DWG-001-01	DRAWING LIST (SHEET 1 OF 4)	20.05.26	B	53	IITM-DPA-VAD-DWG-010-03	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 3 OF 9)	20.05.26	B	
	2	IITM-DPA-VAD-DWG-001-02	DRAWING LIST (SHEET 2 OF 4)	20.05.26	B	54	IITM-DPA-VAD-DWG-010-04	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 4 OF 9)	20.05.26	B	
	3	IITM-DPA-VAD-DWG-001-03	DRAWING LIST (SHEET 3 OF 4)	20.05.26	B	55	IITM-DPA-VAD-DWG-010-05	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 5 OF 9)	20.05.26	B	
	4	IITM-DPA-VAD-DWG-001-04	DRAWING LIST (SHEET 4 OF 4)	20.05.26	B	56	IITM-DPA-VAD-DWG-010-06	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 6 OF 9)	20.05.26	B	
	5	IITM-DPA-VAD-DWG-002	GENERAL NOTES	20.05.26	B	57	IITM-DPA-VAD-DWG-010-07	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 7 OF 9)	20.05.26	B	
	6	IITM-DPA-VAD-DWG-003-01	LOCATION MAP AND BOREHOLE LAYOUT (SHEET 1 OF 2)	20.05.26	B	58	IITM-DPA-VAD-DWG-010-08	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 8 OF 9)	20.05.26	B	
	7	IITM-DPA-VAD-DWG-003-02	LOCATION MAP AND BOREHOLE LAYOUT (SHEET 2 OF 2)	20.05.26	B	59	IITM-DPA-VAD-DWG-010-09	LAYOUT AND SECTIONS OF BEAMS & COLUMNS OF FIREWATER PUMP HOUSE CUM SUBSTATION (SHEET 9 OF 9)	20.05.26	B	
B	8	IITM-DPA-VAD-DWG-004	OVERALL LAYOUT	20.05.26	B	60	IITM-DPA-VAD-DWG-011	EQUIPMENT LAYOUT – FIRE WATER PUMP HOUSE CUM SUBSTATION	20.05.26	B	
						OUTFITTING JETTY -1 & 2					
	9	IITM-DPA-VAD-DWG-005-01	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 1 OF 9)	20.05.26	B	61	IITM-DPA-VAD-DWG-101-01	LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 7)	20.05.26	B	
	10	IITM-DPA-VAD-DWG-005-02	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 2 OF 9)	20.05.26	B	62	IITM-DPA-VAD-DWG-101-02	LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 7)	20.05.26	B	
	11	IITM-DPA-VAD-DWG-005-03	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 3 OF 9)	20.05.26	B	63	IITM-DPA-VAD-DWG-101-03	LAYOUT AND RC DETAILS OF PILE (SHEET 3 OF 7)	20.05.26	B	
	12	IITM-DPA-VAD-DWG-005-04	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 4 OF 9)	20.05.26	B	64	IITM-DPA-VAD-DWG-101-04	LAYOUT AND RC DETAILS OF PILE (SHEET 4 OF 7)	20.05.26	B	
	13	IITM-DPA-VAD-DWG-005-05	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 5 OF 9)	20.05.26	B	65	IITM-DPA-VAD-DWG-101-05	LAYOUT AND RC DETAILS OF PILE (SHEET 5 OF 7)	20.05.26	B	
	14	IITM-DPA-VAD-DWG-005-06	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 6 OF 9)	20.05.26	B	66	IITM-DPA-VAD-DWG-101-06	LAYOUT AND RC DETAILS OF PILE (SHEET 6 OF 7)	20.05.26	B	
	15	IITM-DPA-VAD-DWG-005-07	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 7 OF 9)	20.05.26	B	67	IITM-DPA-VAD-DWG-101-07	LAYOUT AND RC DETAILS OF PILE (SHEET 7 OF 7)	20.05.26	B	
	16	IITM-DPA-VAD-DWG-005-08	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 8 OF 9)	20.05.26	B	68	IITM-DPA-VAD-DWG-102-01	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 1 OF 11)	20.05.26	B	
C	17	IITM-DPA-VAD-DWG-005-09	LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 9 OF 9)	20.05.26	B	69	IITM-DPA-VAD-DWG-102-02	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 2 OF 11)	20.05.26	B	
	18	IITM-DPA-VAD-DWG-006-01	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 1 OF 16)	20.05.26	B	70	IITM-DPA-VAD-DWG-102-03	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 3 OF 11)	20.05.26	B	
	19	IITM-DPA-VAD-DWG-006-02	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 2 OF 16)	20.05.26	B	71	IITM-DPA-VAD-DWG-102-04	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 4 OF 11)	20.05.26	B	
	20	IITM-DPA-VAD-DWG-006-03	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 3 OF 16)	20.05.26	B	72	IITM-DPA-VAD-DWG-102-05	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 5 OF 11)	20.05.26	B	
	21	IITM-DPA-VAD-DWG-006-04	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 4 OF 16)	20.05.26	B	73	IITM-DPA-VAD-DWG-102-06	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 6 OF 11)	20.05.26	B	
	22	IITM-DPA-VAD-DWG-006-05	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 5 OF 16)	20.05.26	B	74	IITM-DPA-VAD-DWG-102-07	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 7 OF 11)	20.05.26	B	
	23	IITM-DPA-VAD-DWG-006-06	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 6 OF 16)	20.05.26	B	75	IITM-DPA-VAD-DWG-102-08	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 8 OF 11)	20.05.26	B	
	24	IITM-DPA-VAD-DWG-006-07	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 7 OF 16)	20.05.26	B	76	IITM-DPA-VAD-DWG-102-09	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 9 OF 11)	20.05.26	B	
	25	IITM-DPA-VAD-DWG-006-08	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 8 OF 16)	20.05.26	B	77	IITM-DPA-VAD-DWG-102-10	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 10 OF 11)	20.05.26	B	
	26	IITM-DPA-VAD-DWG-006-09	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 9 OF 16)	20.05.26	B	78	IITM-DPA-VAD-DWG-102-11	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 11 OF 11)	20.05.26	B	
D	27	IITM-DPA-VAD-DWG-006-10	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 10 OF 16)	20.05.26	B	79	IITM-DPA-VAD-DWG-103-01	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 1 OF 19)	20.05.26	B	
	28	IITM-DPA-VAD-DWG-006-11	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 11 OF 16)	20.05.26	B	80	IITM-DPA-VAD-DWG-103-02	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 19)	20.05.26	B	
	29	IITM-DPA-VAD-DWG-006-12	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 12 OF 16)	20.05.26	B	81	IITM-DPA-VAD-DWG-103-03	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 19)	20.05.26	B	
	30	IITM-DPA-VAD-DWG-006-13	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 13 OF 16)	20.05.26	B	82	IITM-DPA-VAD-DWG-103-04	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 19)	20.05.26	B	
	31	IITM-DPA-VAD-DWG-006-14	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 14 OF 16)	20.05.26	B	83	IITM-DPA-VAD-DWG-103-05	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 19)	20.05.26	B	
	32	IITM-DPA-VAD-DWG-006-15	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 15 OF 16)	20.05.26	B	84	IITM-DPA-VAD-DWG-103-06	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 19)	20.05.26	B	
	33	IITM-DPA-VAD-DWG-006-16	GENERAL ARRANGEMENT OF OUTFITTING JETTY –01&02 (SHEET 16 OF 16)	20.05.26	B	85	IITM-DPA-VAD-DWG-103-07	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 7 OF 19)	20.05.26	B	
	34	IITM-DPA-VAD-DWG-007-01	GENERAL ARRANGEMENT OF OUTFITTING JETTY –03 (SHEET 1 OF 9)	20.05.26	B	86	IITM-DPA-VAD-DWG-103-08	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 8 OF 19)	20.05.26	B	
	35	IITM-DPA-VAD-DWG-007-02	GENERAL ARRANGEMENT OF OUTFITTING JETTY –03 (SHEET 2 OF 9)	20.05.26	B	87	IITM-DPA-VAD-DWG-103-09	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 9 OF 19)	20.05.26	B	
	36	IITM-DPA-VAD-DWG-007-03	GENERAL ARRANGEMENT OF OUTFITTING JETTY –03 (SHEET 3 OF 9)	20.05.26	B	88	IITM-DPA-VAD-DWG-103-10	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 19)	20.05.26	B	
										B	
										A	
										REV.	DATE
										DESCRIPTION	DRAWN
										CHECKED	
										CONSULTANT:	
											
										PROF.S.NALLAYARASU	
										DEPARTMENT OF OCEAN ENGINEERING	
										IIT MADRAS, CHENNAI	
										OWNER:	
											
										DEENDAYAL PORT AUTHORITY	
										PROJECT:	
										DEVELOPMENT OF SHIP DOCKING AND REPAIR	
										INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.	
										TITLE:	
										DRAWING LIST (SHEET 1 OF 4)	
										DRAWING NO.	IITM-DPA-VAD-DWG-001-01
										DATE:	20.05.26
										REV:	B

A	LIST OF DRAWINGS				
	S.NO.	DRAWING NO.	DESCRIPTIONS	DATE	REV
	91	IITM-DPA-VAD-DWG-103-13	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 13 OF 19)	20.05.26	B
	92	IITM-DPA-VAD-DWG-103-14	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 14 OF 19)	20.05.26	B
	93	IITM-DPA-VAD-DWG-103-15	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 15 OF 19)	20.05.26	B
	94	IITM-DPA-VAD-DWG-103-16	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 16 OF 19)	20.05.26	B
	95	IITM-DPA-VAD-DWG-103-17	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 17 OF 19)	20.05.26	B
	96	IITM-DPA-VAD-DWG-103-18	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 18 OF 19)	20.05.26	B
	97	IITM-DPA-VAD-DWG-103-19	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 19 OF 19)	20.05.26	B
	98	IITM-DPA-VAD-DWG-104-01	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 1 OF 16)	20.05.26	B
B	99	IITM-DPA-VAD-DWG-104-02	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 2 OF 16)	20.05.26	B
	100	IITM-DPA-VAD-DWG-104-03	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 3 OF 16)	20.05.26	B
	101	IITM-DPA-VAD-DWG-104-04	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 4 OF 16)	20.05.26	B
	102	IITM-DPA-VAD-DWG-104-05	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 5 OF 16)	20.05.26	B
	103	IITM-DPA-VAD-DWG-104-06	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 6 OF 16)	20.05.26	B
	104	IITM-DPA-VAD-DWG-104-07	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 7 OF 16)	20.05.26	B
	105	IITM-DPA-VAD-DWG-104-08	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 8 OF 16)	20.05.26	B
	106	IITM-DPA-VAD-DWG-104-09	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 9 OF 16)	20.05.26	B
	107	IITM-DPA-VAD-DWG-104-10	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 10 OF 16)	20.05.26	B
	108	IITM-DPA-VAD-DWG-104-11	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 11 OF 16)	20.05.26	B
C	109	IITM-DPA-VAD-DWG-104-12	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 12 OF 16)	20.05.26	B
	110	IITM-DPA-VAD-DWG-104-13	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 13 OF 16)	20.05.26	B
	111	IITM-DPA-VAD-DWG-104-14	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 14 OF 16)	20.05.26	B
	112	IITM-DPA-VAD-DWG-104-15	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 15 OF 16)	20.05.26	B
	113	IITM-DPA-VAD-DWG-104-16	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 16 OF 16)	20.05.26	B
	114	IITM-DPA-VAD-DWG-105-01	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 1 OF 9)	20.05.26	B
	115	IITM-DPA-VAD-DWG-105-02	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 2 OF 9)	20.05.26	B
	116	IITM-DPA-VAD-DWG-105-03	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 3 OF 9)	20.05.26	B
	117	IITM-DPA-VAD-DWG-105-04	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 4 OF 9)	20.05.26	B
	118	IITM-DPA-VAD-DWG-105-05	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 5 OF 9)	20.05.26	B
D	119	IITM-DPA-VAD-DWG-105-06	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 6 OF 9)	20.05.26	B
	120	IITM-DPA-VAD-DWG-105-07	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 7 OF 9)	20.05.26	B
	121	IITM-DPA-VAD-DWG-105-08	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 8 OF 9)	20.05.26	B
	122	IITM-DPA-VAD-DWG-105-09	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 9 OF 9)	20.05.26	B
	123	IITM-DPA-VAD-DWG-106-01	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 1 OF 8)	20.05.26	B
	124	IITM-DPA-VAD-DWG-106-02	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 2 OF 8)	20.05.26	B
	125	IITM-DPA-VAD-DWG-106-03	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 3 OF 8)	20.05.26	B
	126	IITM-DPA-VAD-DWG-106-04	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 4 OF 8)	20.05.26	B
	127	IITM-DPA-VAD-DWG-106-05	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 5 OF 8)	20.05.26	B
	128	IITM-DPA-VAD-DWG-106-06	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 6 OF 8)	20.05.26	B
	129	IITM-DPA-VAD-DWG-106-07	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 7 OF 8)	20.05.26	B
	130	IITM-DPA-VAD-DWG-106-08	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 8 OF 8)	20.05.26	B
	131	IITM-DPA-VAD-DWG-107-01	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 1 OF 7)	20.05.26	B
	132	IITM-DPA-VAD-DWG-107-02	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 2 OF 7)	20.05.26	B
	133	IITM-DPA-VAD-DWG-107-03	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 3 OF 7)	20.05.26	B
	134	IITM-DPA-VAD-DWG-107-04	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 4 OF 7)	20.05.26	B
	135	IITM-DPA-VAD-DWG-107-05	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 5 OF 7)	20.05.26	B
	136	IITM-DPA-VAD-DWG-107-06	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 6 OF 7)	20.05.26	B
	137	IITM-DPA-VAD-DWG-107-07	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 7 OF 7)	20.05.26	B
	138	IITM-DPA-VAD-DWG-108-01	CRANE RAIL LAYOUT AND DETAIL (SHEET 1 OF 5)	20.05.26	B
	139	IITM-DPA-VAD-DWG-108-02	CRANE RAIL LAYOUT AND DETAIL (SHEET 2 OF 5)	20.05.26	B
	140	IITM-DPA-VAD-DWG-108-03	CRANE RAIL LAYOUT AND DETAIL (SHEET 3 OF 5)	20.05.26	B
	141	IITM-DPA-VAD-DWG-108-04	CRANE RAIL LAYOUT AND DETAIL (SHEET 4 OF 5)	20.05.26	B
	142	IITM-DPA-VAD-DWG-108-05	CRANE RAIL LAYOUT AND DETAIL (SHEET 5 OF 5)	20.05.26	B
	143	IITM-DPA-VAD-DWG-109	FIXING DETAILS OF FENDER/BOLLARD	20.05.26	B

LIST OF DRAWINGS				
S.NO.	DRAWING NO.	DESCRIPTIONS	DATE	REV
144	IITM-DPA-VAD-DWG-110-01	FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 1 OF 4)	20.05.26	B
145	IITM-DPA-VAD-DWG-110-02	FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 2 OF 4)	20.05.26	B
146	IITM-DPA-VAD-DWG-110-03	FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 3 OF 4)	20.05.26	B
147	IITM-DPA-VAD-DWG-110-04	FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 4 OF 4)	20.05.26	B
148	IITM-DPA-VAD-DWG-111-01	LAYOUT AND DETAILS GUIDE PIN PILE (SHEET 1 OF 6)	20.05.26	B
149	IITM-DPA-VAD-DWG-111-02	LAYOUT AND DETAILS GUIDE PIN PILE (SHEET 2 OF 6)	20.05.26	B
150	IITM-DPA-VAD-DWG-111-03	LAYOUT AND DETAILS GUIDE PIN PILE (SHEET 3 OF 6)	20.05.26	B
151	IITM-DPA-VAD-DWG-111-04	LAYOUT AND DETAILS GUIDE PIN PILE (SHEET 4 OF 6)	20.05.26	B
152	IITM-DPA-VAD-DWG-111-05	LAYOUT AND DETAILS GUIDE PIN PILE (SHEET 5 OF 6)	20.05.26	B
153	IITM-DPA-VAD-DWG-111-06	LAYOUT AND DETAILS GUIDE PIN PILE (SHEET 6 OF 6)	20.05.26	B
154	IITM-DPA-VAD-DWG-112	RC DETAILS OF STAIRCASE	20.05.26	B
OUTFITTING JETTY -3				
155	IITM-DPA-VAD-DWG-201-01	LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 3)	20.05.26	B
156	IITM-DPA-VAD-DWG-201-02	LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 3)	20.05.26	B
157	IITM-DPA-VAD-DWG-201-03	LAYOUT AND RC DETAILS OF PILE (SHEET 3 OF 3)	20.05.26	B
158	IITM-DPA-VAD-DWG-202-01	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 1 OF 7)	20.05.26	B
159	IITM-DPA-VAD-DWG-202-02	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 2 OF 7)	20.05.26	B
160	IITM-DPA-VAD-DWG-202-03	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 3 OF 7)	20.05.26	B
161	IITM-DPA-VAD-DWG-202-04	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 4 OF 7)	20.05.26	B
162	IITM-DPA-VAD-DWG-202-05	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 5 OF 7)	20.05.26	B
163	IITM-DPA-VAD-DWG-202-06	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 6 OF 7)	20.05.26	B
164	IITM-DPA-VAD-DWG-202-07	LAYOUT AND RC DETAILS OF PILEMUFF (SHEET 7 OF 7)	20.05.26	B
165	IITM-DPA-VAD-DWG-203-01	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 1 OF 15)	20.05.26	B
166	IITM-DPA-VAD-DWG-203-02	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 15)	20.05.26	B
167	IITM-DPA-VAD-DWG-203-03	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 15)	20.05.26	B
168	IITM-DPA-VAD-DWG-203-04	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 15)	20.05.26	B
169	IITM-DPA-VAD-DWG-203-05	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 15)	20.05.26	B
170	IITM-DPA-VAD-DWG-203-06	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 15)	20.05.26	B
171	IITM-DPA-VAD-DWG-203-07	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 7 OF 15)	20.05.26	B
172	IITM-DPA-VAD-DWG-203-08	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 8 OF 15)	20.05.26	B
173	IITM-DPA-VAD-DWG-203-09	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 9 OF 15)	20.05.26	B
174	IITM-DPA-VAD-DWG-203-10	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 15)	20.05.26	B
175	IITM-DPA-VAD-DWG-203-11	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 11 OF 15)	20.05.26	B
176	IITM-DPA-VAD-DWG-203-12	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 12 OF 15)	20.05.26	B
177	IITM-DPA-VAD-DWG-203-13	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 13 OF 15)	20.05.26	B
178	IITM-DPA-VAD-DWG-203-14	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 14 OF 15)	20.05.26	B
179	IITM-DPA-VAD-DWG-203-15	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 15 OF 15)	20.05.26	B
180	IITM-DPA-VAD-DWG-204-01	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 1 OF 6)	20.05.26	B
181	IITM-DPA-VAD-DWG-204-02	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 2 OF 6)	20.05.26	B
182	IITM-DPA-VAD-DWG-204-03	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 3 OF 6)	20.05.26	B

B	20.05.26	ISSUED FOR TENDER	SMM	MD
A	20.05.26	ISSUED FOR REVIEW	SMM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: DRAWING LIST (SHEET 2 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-001-02		DATE: 20.05.26	REV: B	

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LIST OF DRAWINGS				
S.NO.	DRAWING NO.	DESCRIPTIONS	DATE	REV
183	IITM-DPA-VAD-DWG-204-04	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 4 OF 6)	20.05.26	B
184	IITM-DPA-VAD-DWG-204-05	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 5 OF 6)	20.05.26	B
185	IITM-DPA-VAD-DWG-204-06	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 6 OF 6)	20.05.26	B
186	IITM-DPA-VAD-DWG-205-01	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 1 OF 4)	20.05.26	B
187	IITM-DPA-VAD-DWG-205-02	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 2 OF 4)	20.05.26	B
188	IITM-DPA-VAD-DWG-205-03	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 3 OF 4)	20.05.26	B
189	IITM-DPA-VAD-DWG-205-04	LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 4 OF 4)	20.05.26	B
190	IITM-DPA-VAD-DWG-206-01	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 1 OF 2)	20.05.26	B
191	IITM-DPA-VAD-DWG-206-02	LAYOUT AND RC DETAILS OF PRECAST SLAB FOR TOP DECK AT E.L (8.630) (SHEET 2 OF 2)	20.05.26	B
192	IITM-DPA-VAD-DWG-207-01	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 1 OF 2)	20.05.26	B
193	IITM-DPA-VAD-DWG-207-02	LAYOUT AND RC DETAILS OF INSITU SLAB FOR TOP DECK AT E.L (8.630) (SHEET 2 OF 2)	20.05.26	B
194	IITM-DPA-VAD-DWG-208-01	CRANE RAIL LAYOUT AND DETAIL (SHEET 1 OF 5)	20.05.26	B
195	IITM-DPA-VAD-DWG-208-02	CRANE RAIL LAYOUT AND DETAIL (SHEET 2 OF 5)	20.05.26	B
196	IITM-DPA-VAD-DWG-208-03	CRANE RAIL LAYOUT AND DETAIL (SHEET 3 OF 5)	20.05.26	B
197	IITM-DPA-VAD-DWG-208-04	CRANE RAIL LAYOUT AND DETAIL (SHEET 4 OF 5)	20.05.26	B
198	IITM-DPA-VAD-DWG-208-05	CRANE RAIL LAYOUT AND DETAIL (SHEET 5 OF 5)	20.05.26	B
199	IITM-DPA-VAD-DWG-209	FIXING DETAILS OF FENDER/BOLLARD	20.05.26	B
200	IITM-DPA-VAD-DWG-210-01	FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 1 OF 2)	20.05.26	B
201	IITM-DPA-VAD-DWG-210-02	FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 2 OF 2)	20.05.26	B
202	IITM-DPA-VAD-DWG-211-01	LAYOUT AND DETAILS OF GUIDE PIN PILE (SHEET 1 OF 5)	20.05.26	B
203	IITM-DPA-VAD-DWG-211-02	LAYOUT AND DETAILS OF GUIDE PIN PILE (SHEET 2 OF 5)	20.05.26	B
204	IITM-DPA-VAD-DWG-211-03	LAYOUT AND DETAILS OF GUIDE PIN PILE (SHEET 3 OF 5)	20.05.26	B
205	IITM-DPA-VAD-DWG-211-04	LAYOUT AND DETAILS OF GUIDE PIN PILE (SHEET 4 OF 5)	20.05.26	B
206	IITM-DPA-VAD-DWG-211-05	LAYOUT AND DETAILS OF GUIDE PIN PILE (SHEET 5 OF 5)	20.05.26	B
207	IITM-DPA-VAD-DWG-212	RC DETAILS OF STAIRCASE	20.05.26	B
FIRE WATER PUMP HOUSE CUM SUBSTATION				
208	IITM-DPA-VAD-DWG-301-01	LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 2)	20.05.26	B
209	IITM-DPA-VAD-DWG-301-02	LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 2)	20.05.26	B
210	IITM-DPA-VAD-DWG-302-01	LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 1 OF 3)	20.05.26	B
211	IITM-DPA-VAD-DWG-302-02	LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 2 OF 3)	20.05.26	B
212	IITM-DPA-VAD-DWG-302-03	LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 3 OF 3)	20.05.26	B
213	IITM-DPA-VAD-DWG-303-01	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 1 OF 6)	20.05.26	B
214	IITM-DPA-VAD-DWG-303-02	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 6)	20.05.26	B
215	IITM-DPA-VAD-DWG-303-03	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 6)	20.05.26	B
216	IITM-DPA-VAD-DWG-303-04	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 6)	20.05.26	B
217	IITM-DPA-VAD-DWG-303-05	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 6)	20.05.26	B
218	IITM-DPA-VAD-DWG-303-06	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 6)	20.05.26	B
219	IITM-DPA-VAD-DWG-304-01	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 1 OF 11)	20.05.26	B
220	IITM-DPA-VAD-DWG-304-02	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 11)	20.05.26	B
221	IITM-DPA-VAD-DWG-304-03	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 11)	20.05.26	B
222	IITM-DPA-VAD-DWG-304-04	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 11)	20.05.26	B
223	IITM-DPA-VAD-DWG-304-05	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 11)	20.05.26	B
224	IITM-DPA-VAD-DWG-304-06	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 11)	20.05.26	B
225	IITM-DPA-VAD-DWG-304-07	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 7 OF 11)	20.05.26	B
226	IITM-DPA-VAD-DWG-304-08	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 8 OF 11)	20.05.26	B
227	IITM-DPA-VAD-DWG-304-09	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 9 OF 11)	20.05.26	B
228	IITM-DPA-VAD-DWG-304-10	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 11)	20.05.26	B
229	IITM-DPA-VAD-DWG-304-11	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 11 OF 11)	20.05.26	B
230	IITM-DPA-VAD-DWG-305-01	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 1 OF 11)	20.05.26	B
231	IITM-DPA-VAD-DWG-305-02	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 2 OF 11)	20.05.26	B
232	IITM-DPA-VAD-DWG-305-03	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 3 OF 11)	20.05.26	B
233	IITM-DPA-VAD-DWG-305-04	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 4 OF 11)	20.05.26	B
234	IITM-DPA-VAD-DWG-305-05	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 5 OF 11)	20.05.26	B

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LIST OF DRAWINGS				
S.NO.	DRAWING NO.	DESCRIPTIONS	DATE	REV
235	IITM-DPA-VAD-DWG-305-06	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 6 OF 11)	20.05.26	B
236	IITM-DPA-VAD-DWG-305-07	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 7 OF 11)	20.05.26	B
237	IITM-DPA-VAD-DWG-305-08	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 8 OF 11)	20.05.26	B
238	IITM-DPA-VAD-DWG-305-09	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 9 OF 11)	20.05.26	B
239	IITM-DPA-VAD-DWG-305-10	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 10 OF 11)	20.05.26	B
240	IITM-DPA-VAD-DWG-305-11	LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 11 OF 11)	20.05.26	B
241	IITM-DPA-VAD-DWG-306-01	LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 1 OF 4)	20.05.26	B
242	IITM-DPA-VAD-DWG-306-02	LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 2 OF 4)	20.05.26	B
243	IITM-DPA-VAD-DWG-306-03	LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 3 OF 4)	20.05.26	B
244	IITM-DPA-VAD-DWG-306-04	LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 4 OF 4)	20.05.26	B
245	IITM-DPA-VAD-DWG-307-01	LAYOUT AND RC DETAILS OF CROSS OVER WALK WAY (SHEET 1 OF 2)	20.05.26	B
246	IITM-DPA-VAD-DWG-307-02	LAYOUT AND RC DETAILS OF CROSS OVER WALK WAY (SHEET 2 OF 2)	20.05.26	B
247	IITM-DPA-VAD-DWG-308-01	LAYOUT AND DETAILS OF KERB/HANDRAIL (SHEET 1 OF 2)	20.05.26	B
248	IITM-DPA-VAD-DWG-308-02	LAYOUT AND DETAILS OF KERB/HANDRAIL (SHEET 2 OF 2)	20.05.26	B
249	IITM-DPA-VAD-DWG-309-01	DRAINAGE LAYOUT OF DECK AND ROOF SLAB (SHEET 1 OF 3)	20.05.26	B
250	IITM-DPA-VAD-DWG-309-02	DRAINAGE LAYOUT OF DECK AND ROOF SLAB (SHEET 2 OF 3)	20.05.26	B
251	IITM-DPA-VAD-DWG-309-03	DRAINAGE LAYOUT OF DECK AND ROOF SLAB (SHEET 3 OF 3)	20.05.26	B
252	IITM-DPA-VAD-DWG-310-01	LAYOUT AND RC DETAILS OF STAIRCASE (SHEET 1 OF 2)	20.05.26	B
253	IITM-DPA-VAD-DWG-310-02	LAYOUT AND RC DETAILS OF STAIRCASE (SHEET 2 OF 2)	20.05.26	B
BERTHING AND APPROACH TRESTLE				
254	IITM-DPA-VAD-DWG-401-01	LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 2)	20.05.26	B
255	IITM-DPA-VAD-DWG-401-02	LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 2)	20.05.26	B
256	IITM-DPA-VAD-DWG-402-01	LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 1 OF 3)	20.05.26	B
257	IITM-DPA-VAD-DWG-402-02	LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 2 OF 3)	20.05.26	B
258	IITM-DPA-VAD-DWG-402-03	LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 3 OF 3)	20.05.26	B
259	IITM-DPA-VAD-DWG-403-01	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 1 OF 13)	20.05.26	B
260	IITM-DPA-VAD-DWG-403-02	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 13)	20.05.26	B
261	IITM-DPA-VAD-DWG-403-03	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 13)	20.05.26	B
262	IITM-DPA-VAD-DWG-403-04	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 13)	20.05.26	B
263	IITM-DPA-VAD-DWG-403-05	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 13)	20.05.26	B
264	IITM-DPA-VAD-DWG-403-06	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 13)	20.05.26	B
265	IITM-DPA-VAD-DWG-403-07	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 7 OF 13)	20.05.26	B
266	IITM-DPA-VAD-DWG-403-08	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 8 OF 13)	20.05.26	B
267	IITM-DPA-VAD-DWG-403-09	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 9 OF 13)	20.05.26	B
268	IITM-DPA-VAD-DWG-403-10	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 13)	20.05.26	B
269	IITM-DPA-VAD-DWG-403-11	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 11 OF 13)	20.05.26	B
270	IITM-DPA-VAD-DWG-403-12	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 12 OF 13)	20.05.26	B
271	IITM-DPA-VAD-DWG-403-13	LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 13 OF 13)	20.05.26	B
272	IITM-DPA-VAD-DWG-404-01	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 1 OF 5)	20.05.26	B
273	IITM-DPA-VAD-DWG-404-02	SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 2 OF 5)	20.05.26	B

B	20.05.26	ISSUED FOR TENDER	SMM	MD
A	23.05.24	ISSUED FOR REVIEW	SMM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF .S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: DRAWING LIST (SHEET 3 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-001-03		DATE: 20.05.26	REV: B	

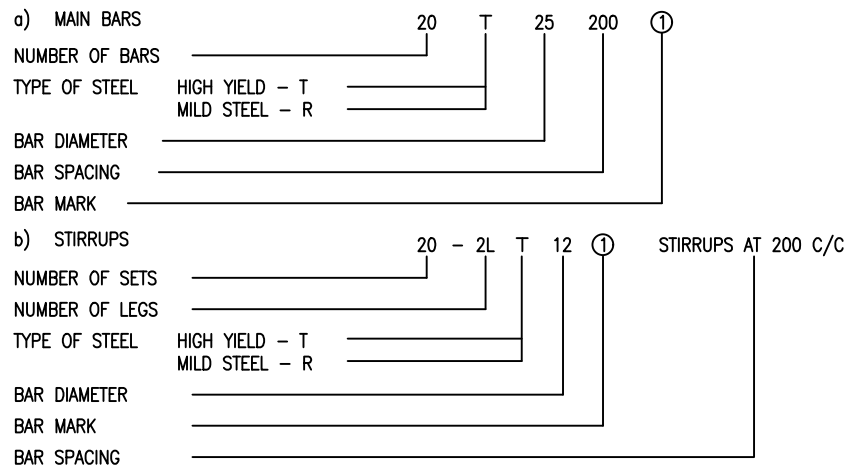
I. RC WORKS:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES RELATIVE TO CHART DATUM (EL. ±0.00m)
3. ALL DIMENSIONS AND LEVELS SHALL BE CHECKED AND VERIFIED AT THE SITE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER INCHARGE IMMEDIATELY AND MODIFIED TO SUIT THE SITE CONDITIONS, FABRICATIONS AND INSTALLATION TOLERANCES. ALL SUCH MODIFICATIONS SHALL BE SUBJECTED TO THE APPROVAL OF THE ENGINEER INCHARGE.

4. ALL CONCRETE USED IN CONSTRUCTION SHALL HAVE CHARACTERISTICS AS PER TABLE BELOW

CAST IN-SITU/PRECAST ELEMENTS	CONCRETE GRADE	7 DAYS AGE (N/mm ²)	28 DAYS AGE (N/mm ²)
PILE, PILE MUFF, BEAM, SLAB, COLUMN	M40	27	40
SCREED	M30	20	30

5. NO SHUTTERING SHALL BE REMOVED BEFORE CONCRETE ACHIEVING 7 DAYS STRENGTH.
6. ALL REINFORCEMENT STEEL SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO IS1786 WITH MINIMUM YIELD STRENGTH OF 500MPa AND 16% ELONGATION WITH CORROSION RESISTANCE ELEMENT.
7. MILD STEEL BARS, IF ANY SPECIFIED, SHALL HAVE A YIELD STRENGTH OF 250MPa AND SHALL BE IN ACCORDANCE WITH IS432 GRADE 1.
8. REINFORCING BARS ARE REFERENCED ON THE REINFORCEMENT DETAIL DRAWING AS FOLLOWS :



9. THE MINIMUM COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS OR THE DIAMETER OF THE BAR, WHICHEVER IS THE GREATER, UNLESS NOTED OTHERWISE.

PILES/COLUMN	– 75mm
PILE MUFF	– 75mm
BEAM	– 50mm
DECK SLAB	– 50mm
TRENCH COVER SLAB	– 30mm

10. THE LAP LENGTH IN REINFORCEMENT SHALL BE EQUIVALENT TO 45 x DIAMETER OF THE BAR FOR PILES AND 42 x DIAMETER OF THE BAR FOR SUPERSTRUCTURE SLABS AND BEAMS UNLESS NOTED OTHERWISE., NOT MORE THAN HALF THE BARS SHALL BE SPICED AT A SECTION. SPICES WHERE PROVIDED SHALL BE AS FAR AS POSSIBLE AWAY FROM SECTIONS OF MAXIMUMSTRESS AND SHALL BE STAGGERED.
11. FORMS SHALL BE SELECTED TO ENSURE THAT FAIR FACED AND SMOOTH CONCRETE SURFACES ARE OBTAINED FOR ALL CONCRETE WORK.
12. FOR ALL BOLTS TO BE CAST INTO THE CONCRETE, THE LENGTH OF EMBEDMENT OF ANCHOR BOLTS SHALL NOT BE LESS THAN 250mm UNLESS NOTED OTHERWISE.
13. ALL CONCRETE WORKS SHALL BE IN ACCORDANCE WITH IS456 (LATEST EDITION). THE CEMENT USED SHALL BE PORTLAND SLAG CEMENT CONFORMING TO IS455. THE SPECIFICATIONS FOR VARIOUS CONCRETE ELEMENTS ARE LISTED BELOW

CONCRETE ELEMENTS	CONCRETE GRADE	MINIMUM CEMENT CONTENT	MAXIMUM WATER CEMENT RATIO
PILE	M40	450 kg/m ³	0.45
INSITU & PRECAST CONCRETE WORKS	M40	400 kg/m ³	0.45
OTHER CONCRETE WORKS	M30	350 kg/m ³	0.45

14. CUTTING, BENDING AND FIXING OF REINFORCEMENTS SHALL BE AS PER IS2502.
15. WELDING OF REINFORCEMENT MS BARS SHALL BE IN ACCORDANCE WITH IS2751 AND FOR DEFORMED BAR AS PER IS9417
16. GROUTING FOR BASE PLATES AND OTHER MISCELLANEOUS STRUCTURES SHALL USE NON-SHRINK GROUT OF PREMIX TYPE WITH A MINIMUM COMPRESSIVE STRENGTH OF 70 N/mm² AT THE END OF 28 DAYS.
17. WHERE CAST-IN-SITU CONCRETE IS TO ACT COMPOSITELY WITH PRECAST CONCRETE, PRECAST CONCRETE SURFACES SHALL BE ROUGHENED IMMEDIATELY AFETR DESHUTTERING TO ENSURE PROPER BONDING WITH CAST-IN-SITU CONCRETE.
18. REINFORCEMENT DETAILING SHOULD BE BASED ON IS 13920–2016 AND SP34.

II. BORED CAST-IN-SITU PILES:

1. ALL BORED CAST-IN-SITU PILES SHALL BE INSTALLED AS PER CONTRACT SPECIFICATION AND IS 2911 (PART 2)
2. PILE LINERS SHALL BE DRIVEN TO REFUSAL OR ATLEAST TO THE DEPTH SHOWN IN DRAWINGS AND SHALL BE OF MINIMUM THICKNESS 6mm.
3. PILES SHALL BE ADEQUATELY BRACED UNTIL SEVEN DAYS AFTER CASTING OF THE SUPER STRUCTURE.
4. REINFORCEMENT SHALL BE AS SHOWN IN CONSTRUCTION DRAWINGS.
5. LAPPING AND SPICING SHALL BE IN ACCORDANCE WITH IS 456–2000.
6. THE MINIMUM LAP LENGTH FOR HIGH STRENGTH DEFORMED BARS SHALL BE 45 TIMES THE DIAMETER OF BAR.
7. LAPPING / SPICING OF MAIN REINFORCEMENT BARS SHALL BE AVOIDED AT THE LOCATION OF MAXIMUM STRESSES (BENDING MOMENT) AND SHALL BE AWAY FROM THE SECTIONS WHERE THE BENDING MOMENT IS MORE THAN 50% MOMENT OF RESISTANCE.
8. SPICING OF REINFORCEMENT BARS SHALL BE DONE USING PHYSICAL LAPPING AND WELDING OF BARS IS NOT ACCEPTABLE UNLESS APPROVED BY AUTHORITY ENGINEER.
9. LAP SPICING OF MAIN BARS SHALL BE STAGGERED.
10. NOT MORE THAN 50% OF BARS SHALL BE SPICED AT ANY ONE SECTION.
11. THE DISTANCE BETWEEN THE STAGGERED SPICES SAHLL NOT BE LESS THAN 1.3 TIMES THAN LAP LENGTH.
12. SPICING OF BUNDLED BARS SHALL BE STAGGERED. SPICING OF BUNDLED BARS SHALL BE MADE BY SPICING ONE BAR AT A TIME. SUCH INDIVIDUAL SPICES WITHIN A BUNDLE SHALL BE STAGGERED.
13. CONCRETING SHALL START IMMEDIATELY AFTER THE CLEANING OF THE BOTTOM OF PILE SHAFT AND AFTER REINFORCING BARS HAS BEEN INSTALLED. IF THE CONCRETING HAS NOT STARTED AFTER FOUR HOURS OF THE COMPLETION OF THE CLEANING OF THE BOTTOM OF THE BORE HOLE, THE CLEANING SHALL BE REPEATED.
14. CONCRETING OF ALL THE PILES SHALL BE CARRIED OUT USING TREMIE METHOD. NO CONSTRUCTION JOINTS ARE PERMITTED IN THE PILE SHAFT.
15. CONCRETING SHALL BE CARRIED OUT FOR 600mm ABOVE THE CUT-OFF ELEVATION AS SHOWN IN THE CONSTRUCTION DRAWINGS.
16. BEFORE CASTING SUPER STRUCTURE ELEMENTS, THE EXCESS CONCRETE SHALL BE CHIPPED OFF AND REMOVED TO THE CORRECT ELEVATION.
17. THE PILE TOE LEVEL SHALL BE AS PER DEPTH SHOWN IN THE CONSTRUCTION DRAWINGS. HOWEVER, IF FURTHER DEPTH IS REQUIRED AS PER SOIL/ROCK STRATA, THE SAME SHALL BE ACHIEVED AS PER THE DIRECTION OF EIC
18. THE DEVIATION IN THE LOCATION OF EACH PILE HEAD SHALL NOT EXCEED 10% OF THE PILE DIAMETER OR 75MM WHICHEVER IS SMALLER. THE INCLINATION OF EACH PILE SHALL NOT EXCEED 1% OVER THE TOTAL LENGTH OF PILE. FOR OTHER NOTES PERTAINING TO REINFORCED CONCRETE PILING WORKS, THE RELEVANT PILING DRAWINGS SHALL BE REFERRED TOO.
19. STRUCTURAL STEEL FOR LINER SHALL CONFORM TO IS:2062 GRADE E250.

III. STEEL WORK

1. STEEL MATERIAL AND PANTING/COATING SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS:

S.NO	STEEL CLASSIFICATION	SPECIFICATION	APPLICATION	PAINTING/COATING
1.	HIGH STRENGTH STEEL PLATES AND SHAPES	IS 2062 GRADE E350	GUIDE PIN CONNECTING PLATES AND SHAPES, BASE PLATES, BEAMS AT EXPANSION JOINT, ALL ANGLES	3 COAT PAINTING
2.	MILD STEEL PLATES AND SHAPES	IS 2062 GRADE E250 QUALITY C.	TOE PLATES, MISCELLANEOUS STRUCTS. BEARING PLATES,PILE MUFF SUPPORT	3 COAT PAINTING
3.	MILD STEEL PIPES	API 5L GRADE B IS 1161 GRADE YST240	HAND RAILS – OUTDOOR	HOT DIP GALVANISED
4.	STAINLESS STEEL PIPES	SS316	HAND RAILS – INDOOR	–
5.	FOUNDATION BOLTS	IS 5624 & IS 1367 PART 3 – CLASS 8.8	ANCHOR BOLTS FOR ALL BASE PLATES	HOT DIP GALVANISED
5.	CHEQUERED PLATES	IS 3502 GRADE 250A	JETTY COVER SLAB, CABLE DRUM LOCATION	3 COAT PAINTING



2. STEEL FABRICATION AND ERECTION SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

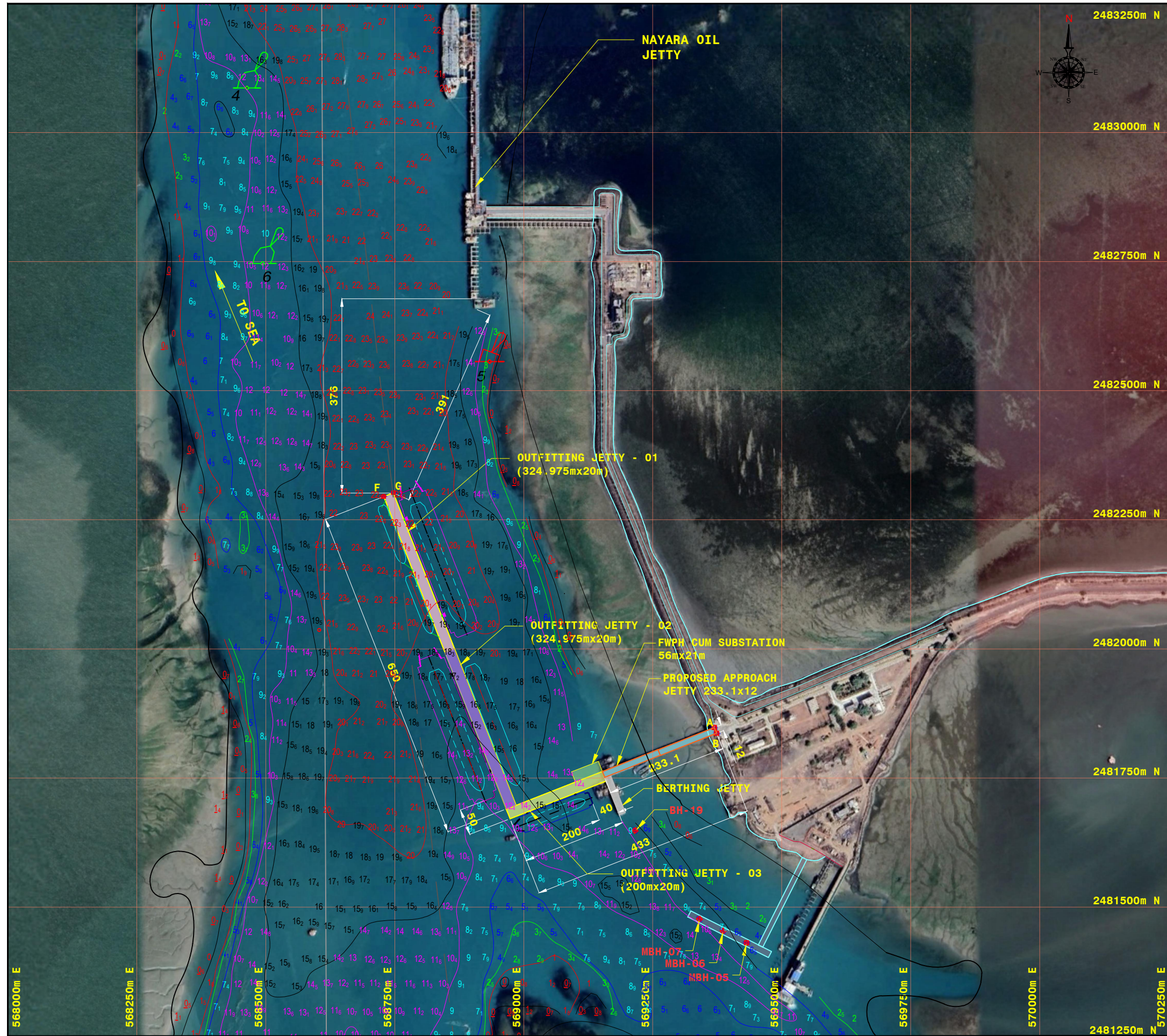
IV. GUIDE PIN PILES:

1. NOTE NO.1 TO 11 PERTAINING TO BORED CAST-IN-SITU PILES ARE ALSO APPLICABLE TO GUIDE PIN PILES. IN ADDITION, FOLLOWING SPECIAL/ENHANCED REQUIREMENTS APPLY TO GUIDE PIN PILES.
2. GUIDE PIN PILE SHALL BE FABRICATED IN SHOP WITH CONTROLLED ENVIRONMENT WITH ONLY ONE FIELD SPLICE. ALL FABRICATION SHALL BE IN STRICT CONFORMITY WITH API SPEC 2B AND WELDING IN ACCORDANCE WITH AWS D1.1
3. ALL SPICES FOR GUIDE PIN PILE SHALL BE 100% X-RAY TESTED IN ACCORDANCE WITH AWS D1.1
4. THE GUIDE PIN PILE SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 355 MPa.
5. THE FABRICATION TOLERANCE OF GUIDE PIN PILE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- a) OUT OF ROUNDEDNESS : <1%
- b) OUT OF VERTICALITY : <1:500
- c) STRAIGHTNESS TOLERANCE : <10mm FOR 1000mm LENGTH
6. THE DEVIATION IN THE LOCATION OF GUIDE PIN PILE HEAD SHALL NOT EXCEED 10mm IN ANY DIRECTION. THE INCLINATION OF EACH PILE SHALL NOT EXCEED 1% OVER THE TOTAL LENGTH OF PILE.
7. FOR OTHER NOTES PERTAINING TO REINFORCED CONCRETE PILING WORKS, THE RELEVANT PILING DRAWINGS SHALL BE REFERRED TO.

ABBREVIATIONS

ACC.	ACCORDANCE	LGTH.	LENGTH
APPROX.	APPROXIMATELY	LONGL.	LONGITUDINAL
ARCH.	ARCHITECTURAL	M	METRE
BOT.	BOTTOM	MM	MILLIMETRE
B/S	BOTH SIDES	MAX.	MAXIMUM
BLDG.	BUILDING	MIN.	MINIMUM
C/C	CENTRE TO CENTRE	NO.	NUMBER
COL.	COLUMN	NOS.	NUMBERS
C.O.G.	CENTRE OF GRAVITY	N/S	NEAR SIDE
CONC.	CONCRETE	NOM.	NOMINAL
CTR.	CENTRE	OD	OUTSIDE DIAMETER
DBLR.	DOUBLER	OPP.	OPPOSITE
DIA.	DIAMETER	PERP.	PERPENDICULAR
DIAG.	DIAGONAL	PL.	PLATE
DIM.	DIMENSION	QTY.	QUANTITY
DET.	DETAIL	R	RADIUS
DK.	DECK	REMOV.	REMOVABLE
DWG.	DRAWING	REF.	REFERENCE
EL.	ELEVATION	REV.	REVISION
EQUIPT.	EQUIPMENT	SECT.	SECTION
EXT.	EXTERNAL	SECON.	SECONDARY
EXTG.	EXISTING	SHT.	SHEET
F/S	FAR SIDE	SIM.	SIMILAR
FLR.	FLOOR	SPCS.	SPACES
FRL.	FINISHED ROAD LEVEL	S.S.	STAINLESS STEEL
GEN.	GENERAL	STD.	STANDARD
GR.	GRADE	SUPPT.	SUPPORT
HT.	HEIGHT	SYMM.	SYMMETRY
HORIZ.	HORIZONTAL	TEMP.	TEMPORARY
HR.	HANDRAIL	THK.	THICK.
ID	INSIDE DIAMETER	(TYP.)	TYPICAL
INT.	INTERNAL	U.N.O.	UNLESS NOTED OTHERWISE
L.A.T.	LOWEST ASTRONOMICAL TIDE	U/S	UNDERSIDE
LG.	LONG	VERT.	VERTICAL
		WT.	WEIGHT

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL NOTES				
DRAWING NO. IITM-DPA-VAD-DWG-002			DATE: 20.05.26	REV: B



LOCATION MAP
(SCALE 1:7.5)





KEY PLAN

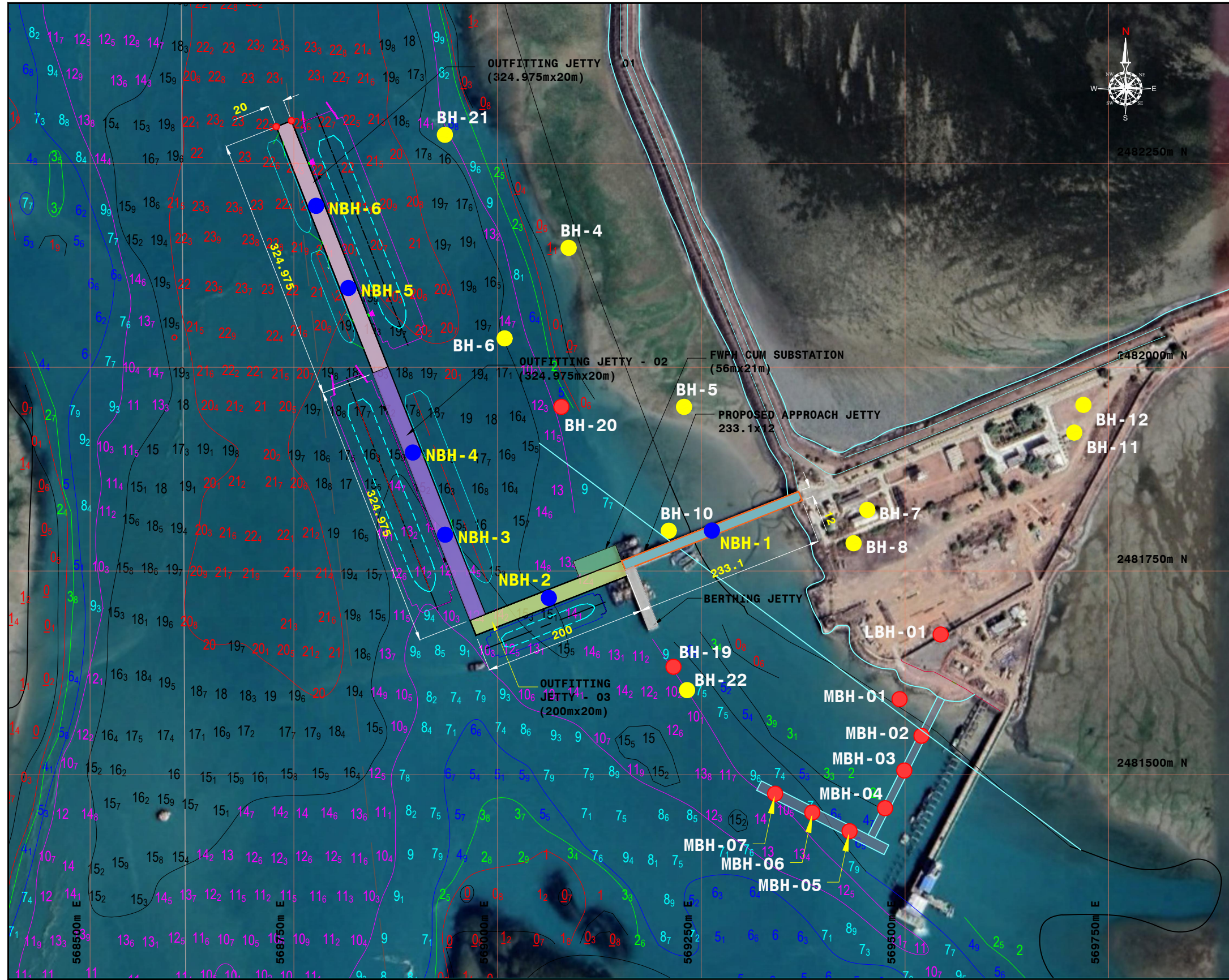
CO-ORDINATES:

POINT	LATITUDE (m)	LONGITUDE (m)
A	569369.62	2481847.29
B	569374.11	2481836.15
C	569152.58	2481762.13
D	569159.88	2481743.51
E	568973.70	2481670.47
F	568728.98	2482294.23
G	568747.60	2482301.54
H	568984.99	2481696.44
J	569100.43	2481741.73
K	569092.76	2481761.27
L	569144.89	2481781.73
BUOY-7	569053.68	2482106.44
BUOY-8	568603.68	2482036.44
BUOY-9	569119.56	2481389.65

NOTES:

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- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LOCATION MAP & BOREHOLE LAYOUT (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-003-01		DATE: 20.05.26		REV: B



BOREHOLE LAYOUT
(SCALE 1:5)



KEY PLAN

NEW BOREHOLE CO-ORDINATES:



POINT	LATITUDE (m)	LONGITUDE (m)
NBH-1	569263.14	2481799.47
NBH-2	569062.99	2481716.81
NBH-3	568935.77	2481794.52
NBH-4	568896.21	2481895.36
NBH-5	568817.06	2482097.09
NBH-6	568777.48	2482197.93

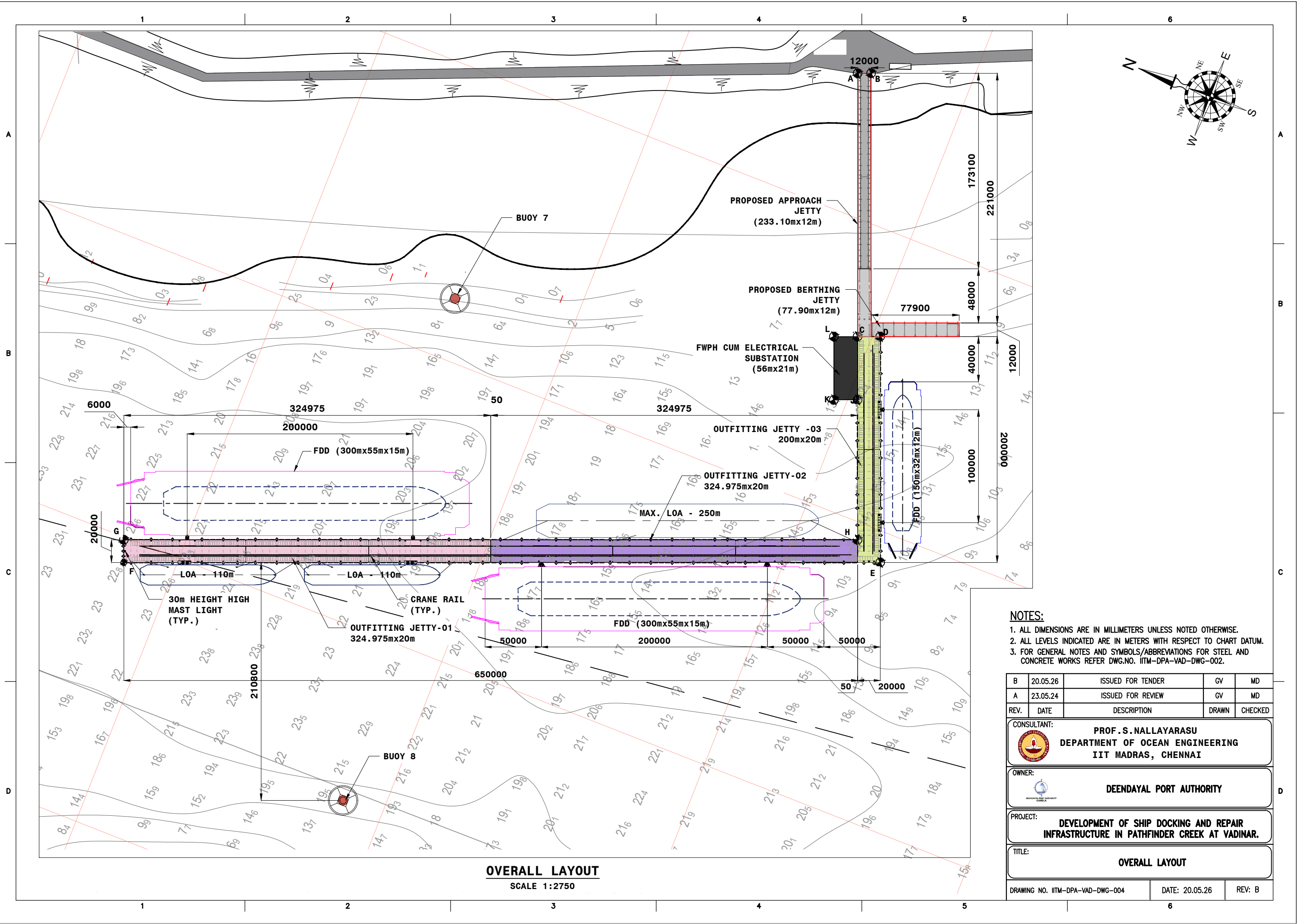
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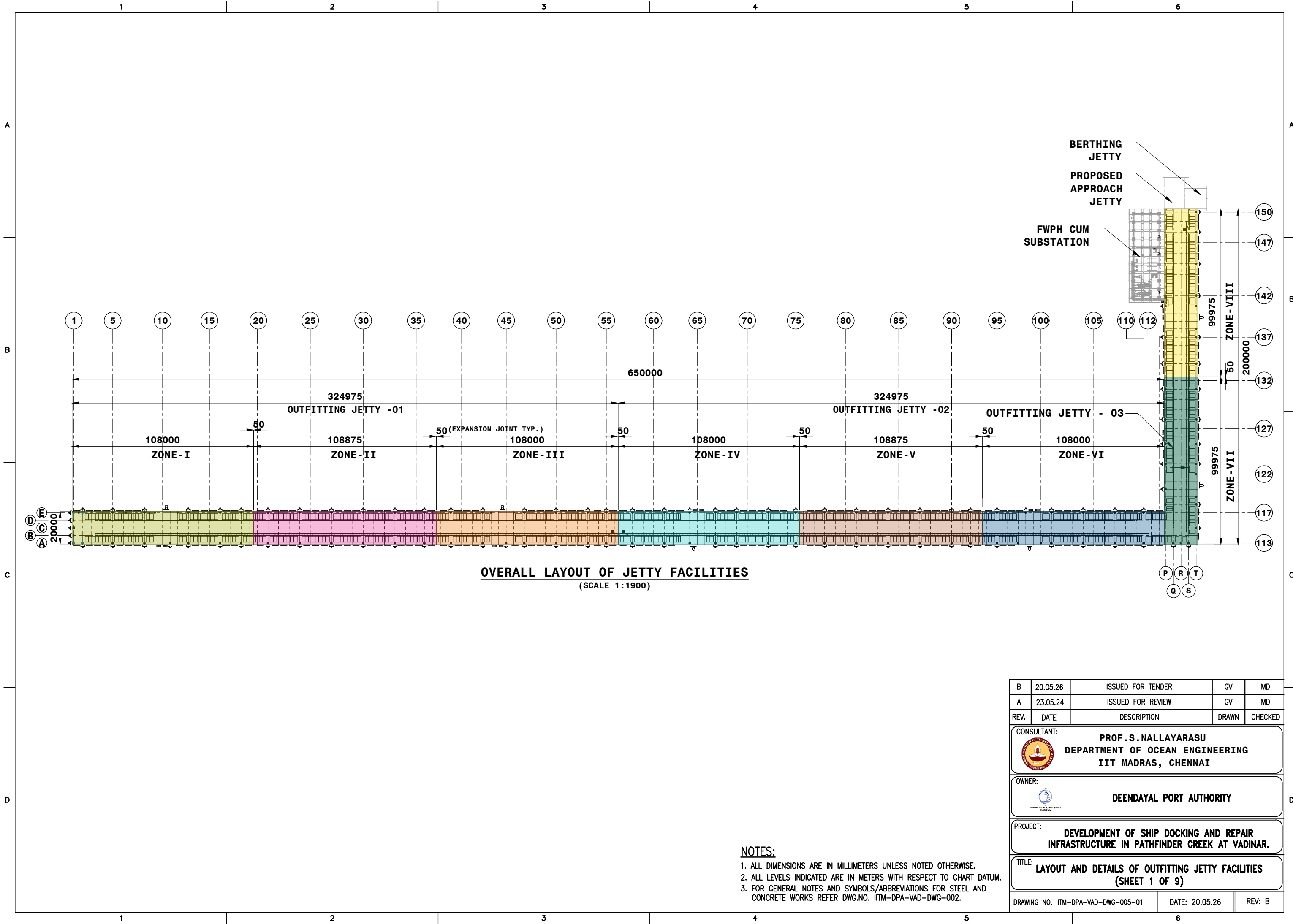
- BOREHOLE DATA GIVEN BY DPA
- BOREHOLE DATA NOT GIVEN BY DPA
- NEW BOREHOLE

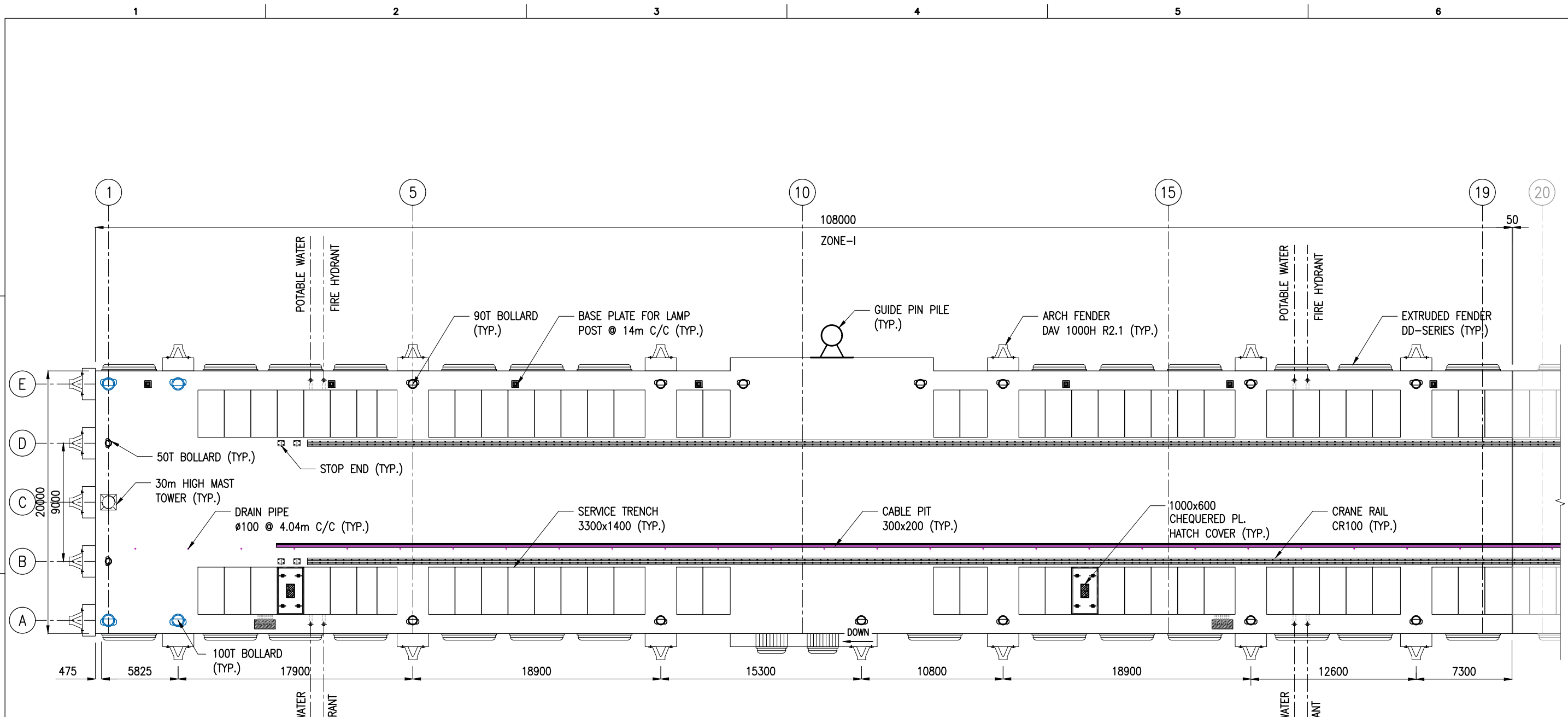
NOTES:

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B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LOCATION MAP & BOREHOLE LAYOUT (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-003-02		DATE: 20.05.26		REV: B





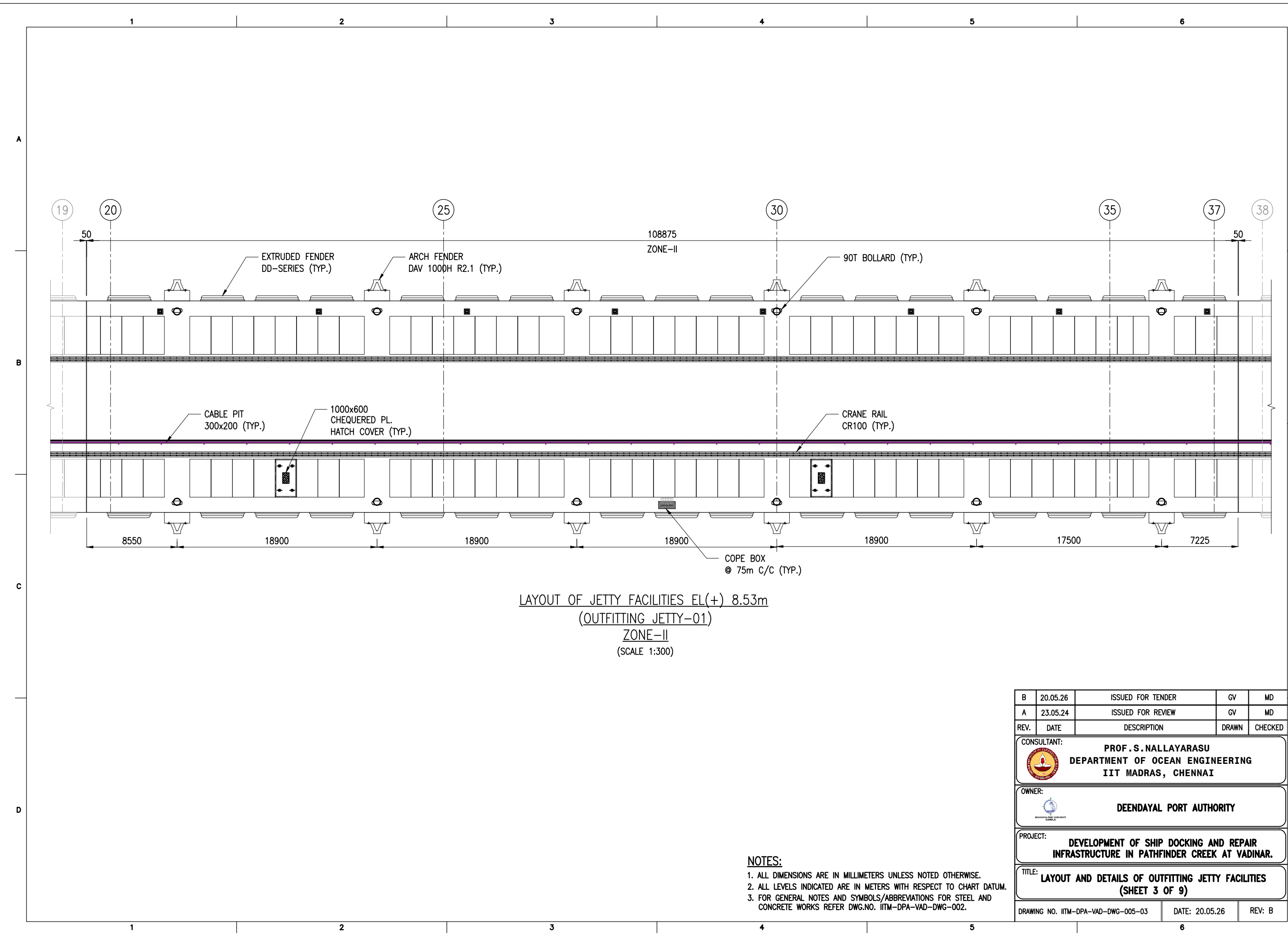


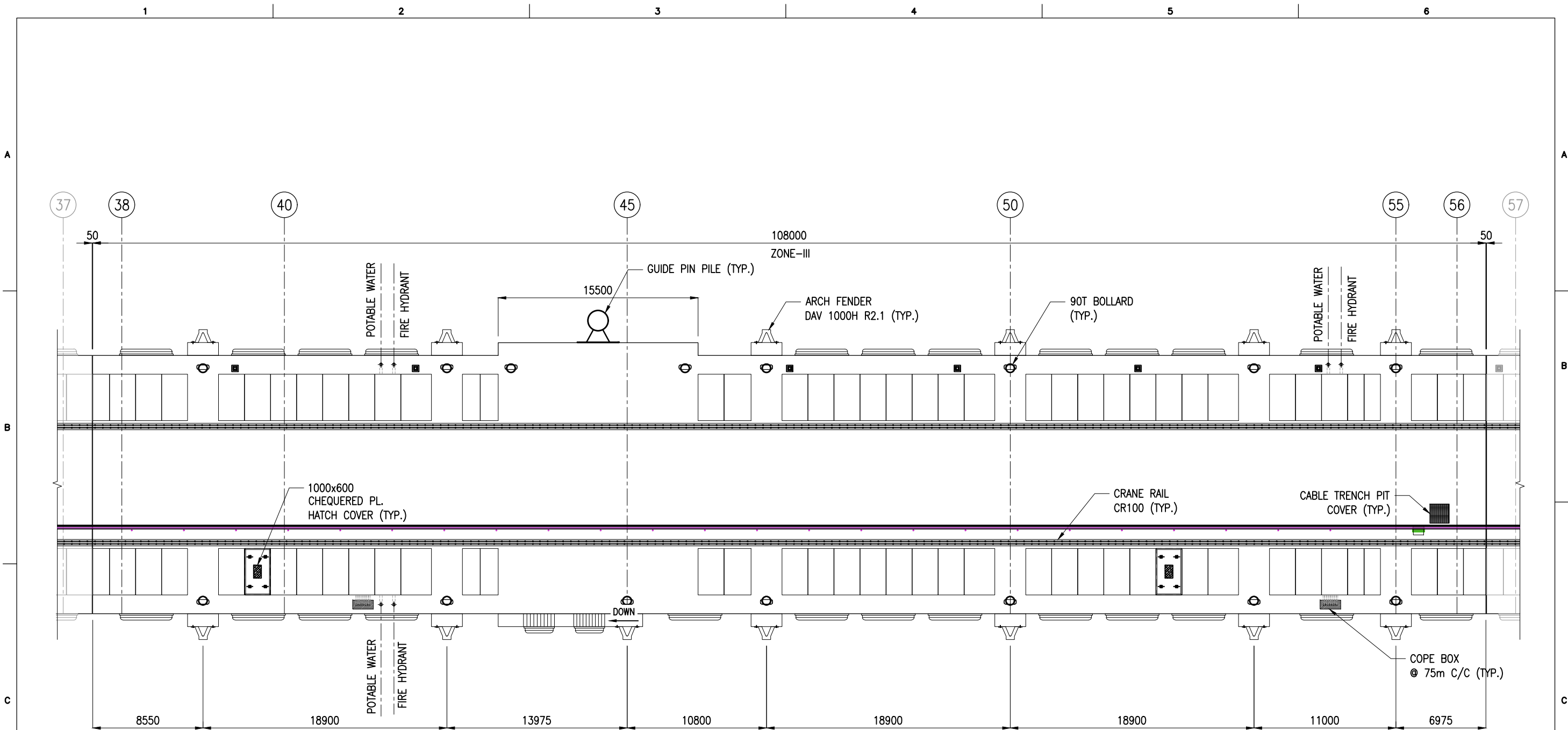


LAYOUT OF JETTY FACILITIES EL(+) 8.53m
(OUTFITTING JETTY-01)
ZONE-I
(SCALE 1:300)

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 2 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-005-02			DATE: 20.05.26	REV: B

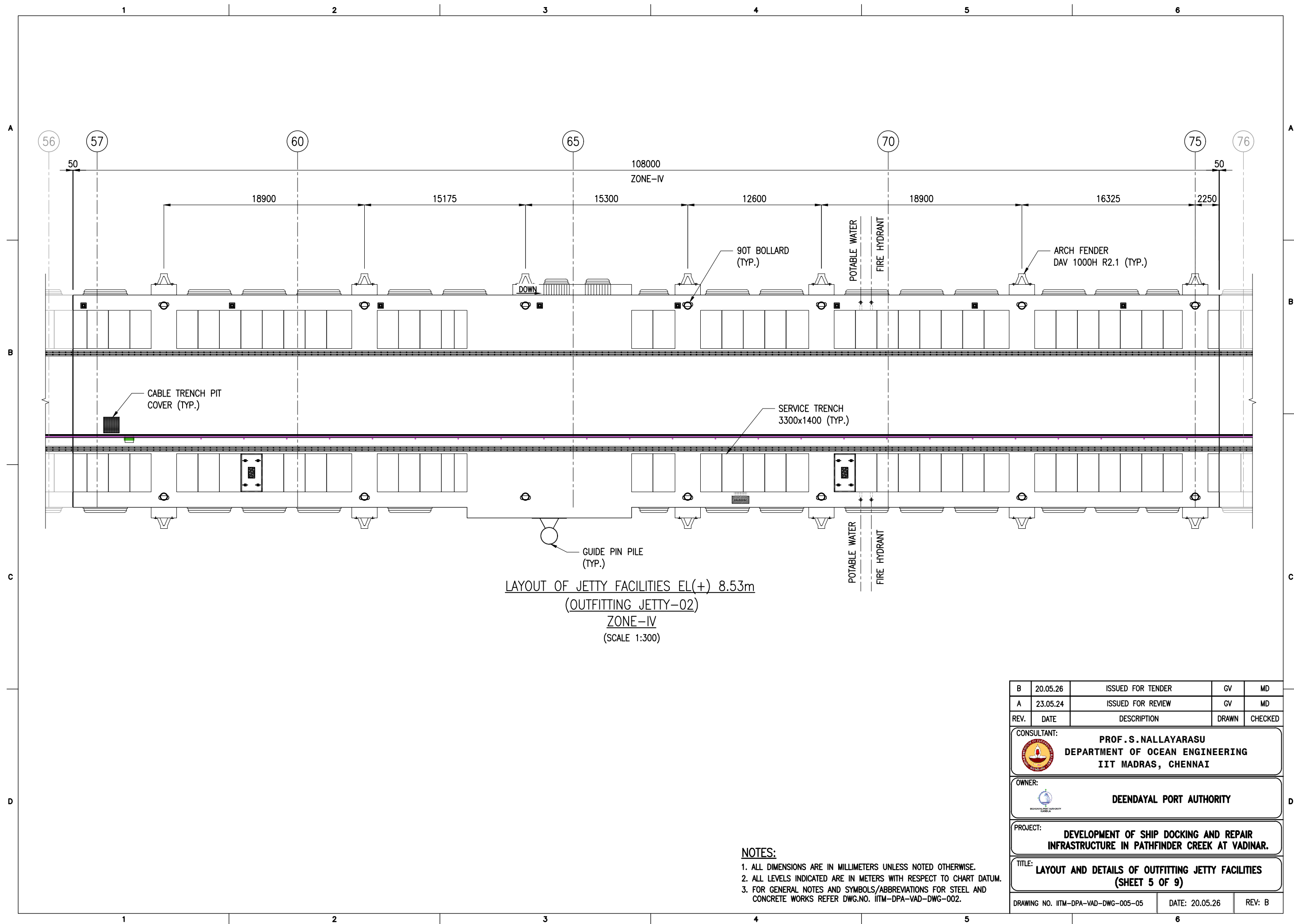






LAYOUT OF JETTY FACILITIES EL(+). 8.53m
(OUTFITTING JETTY-01)
ZONE-III
(SCALE 1:300)

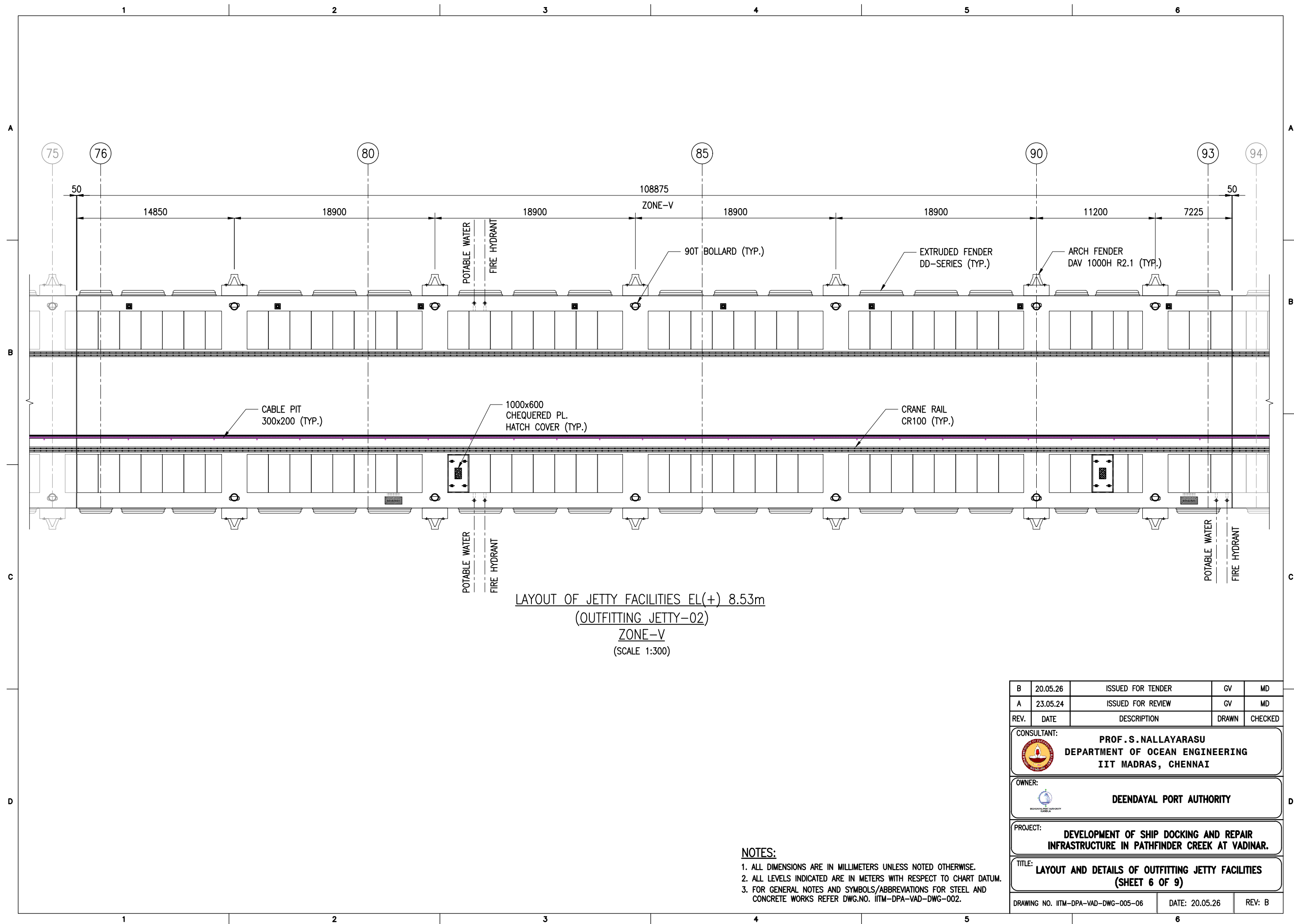
- NOTES:
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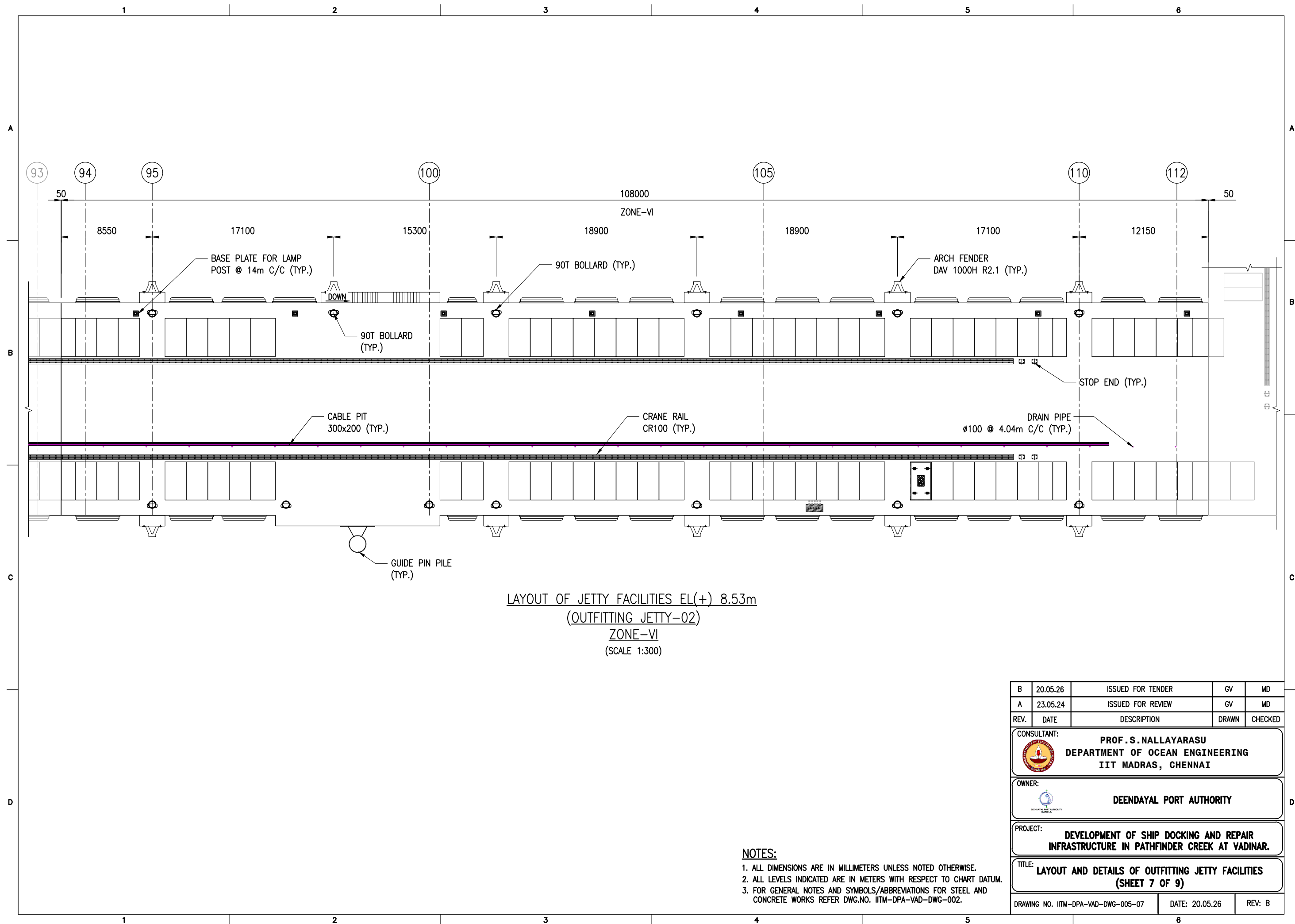
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A	23.05.24	ISSUED FOR REVIEW	GV	MD
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CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 4 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-005-04			DATE: 20.05.26	REV: B

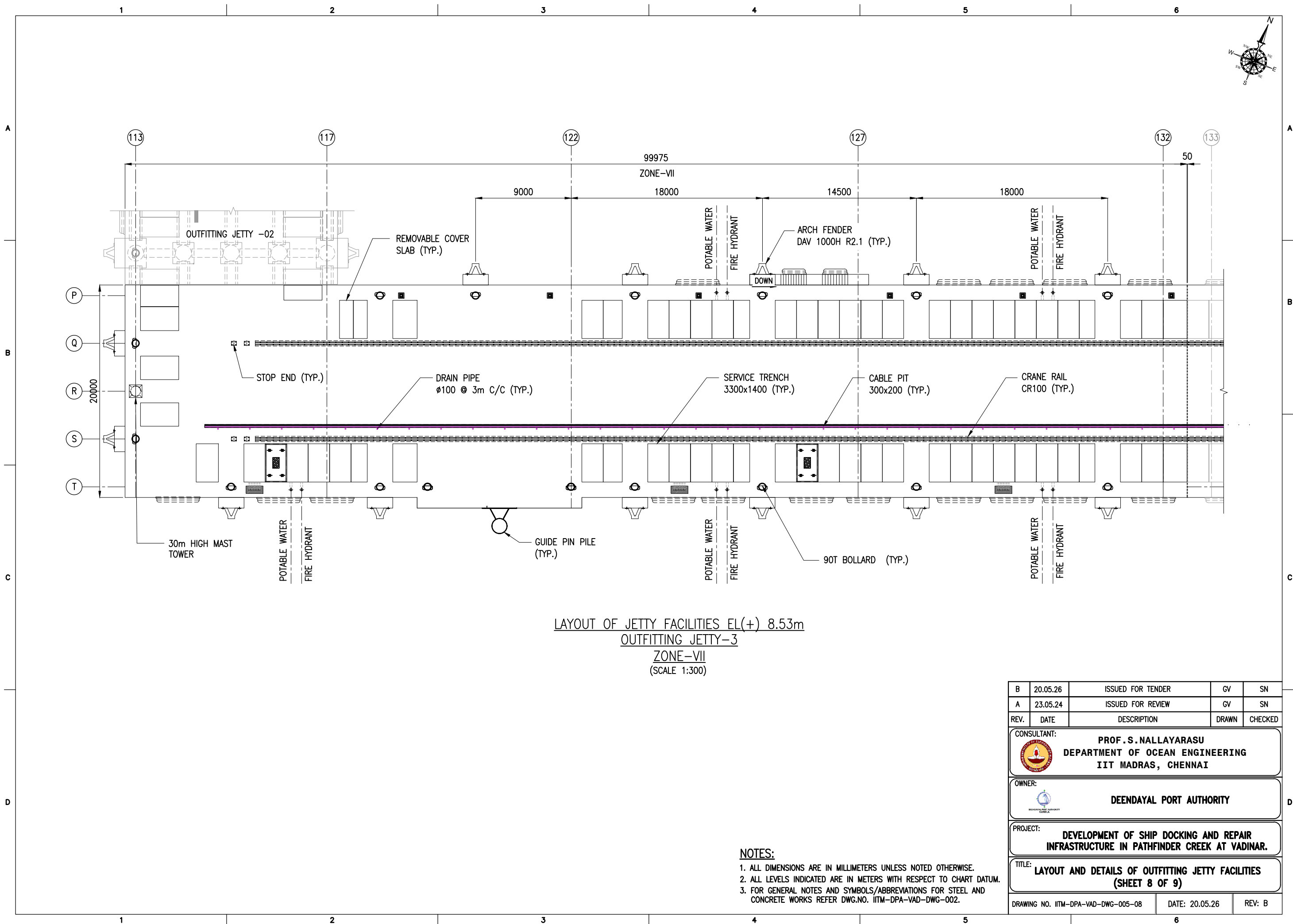


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OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 5 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-005-05			DATE: 20.05.26	REV: B





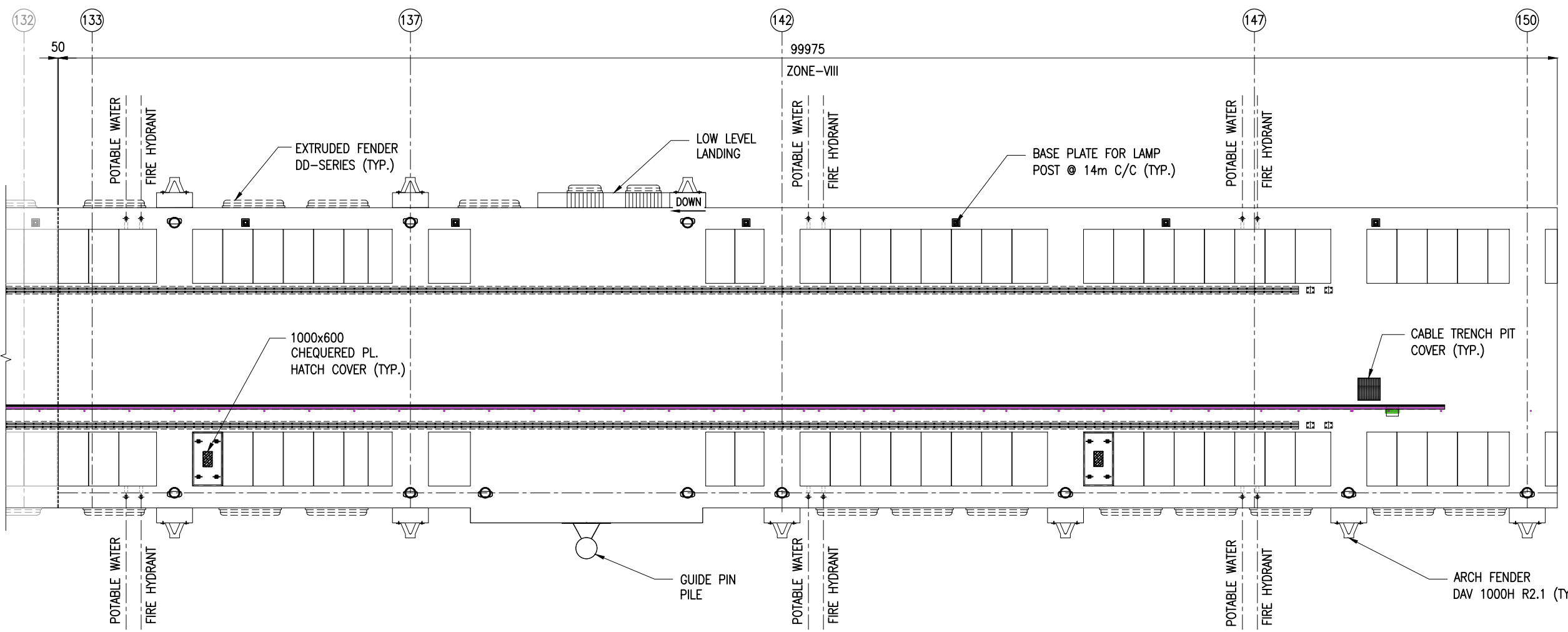


1 2 3 4 5 6



A

A



B

B

C



C

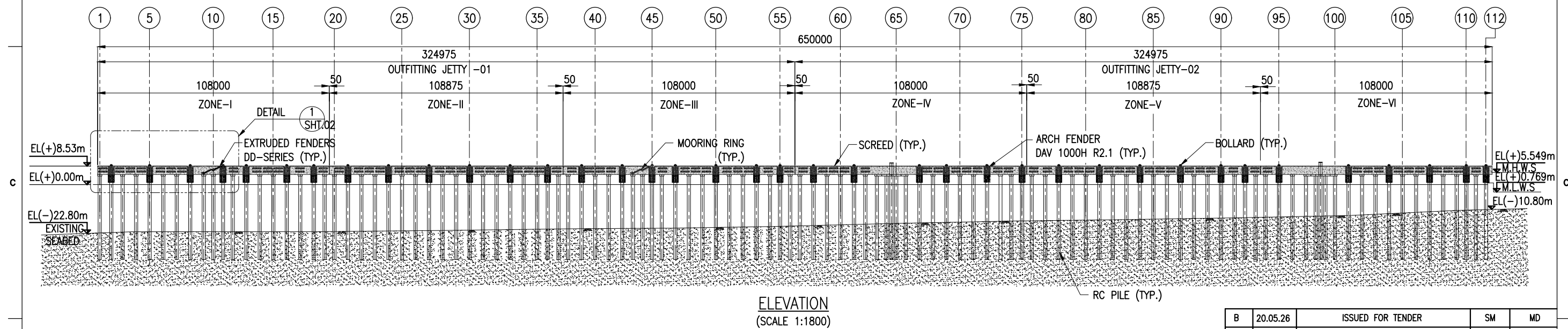
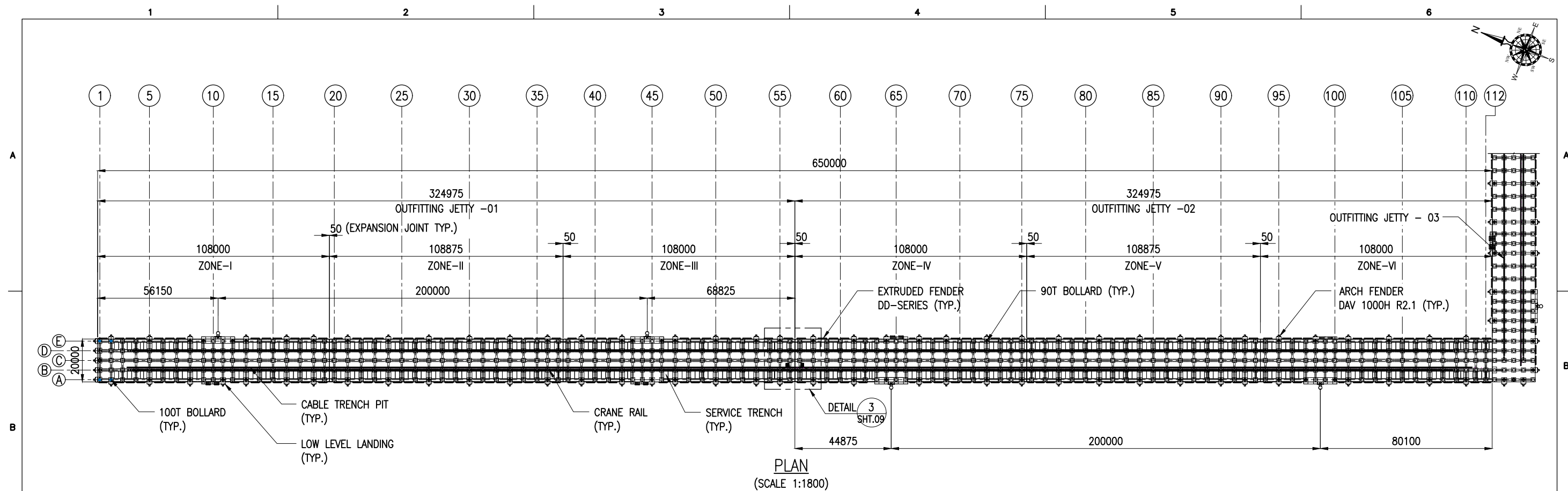
LAYOUT OF JETTY FACILITIES EL(+). 8.53m
OUTFITTING JETTY-3
ZONE-VIII
(SCALE 1:300)

D

D

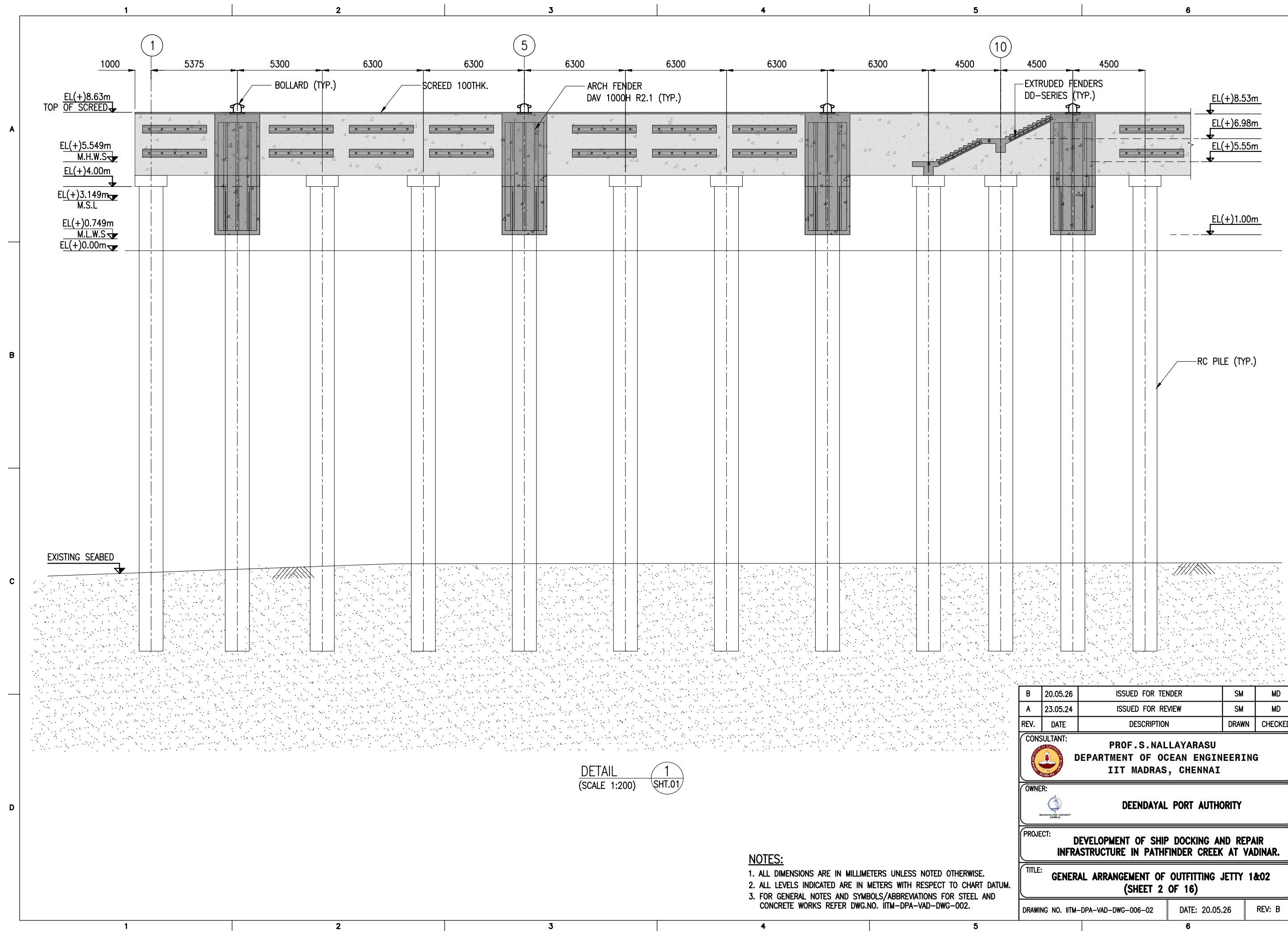
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND DETAILS OF OUTFITTING JETTY FACILITIES (SHEET 9 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-005-09			DATE: 20.05.26	REV: B



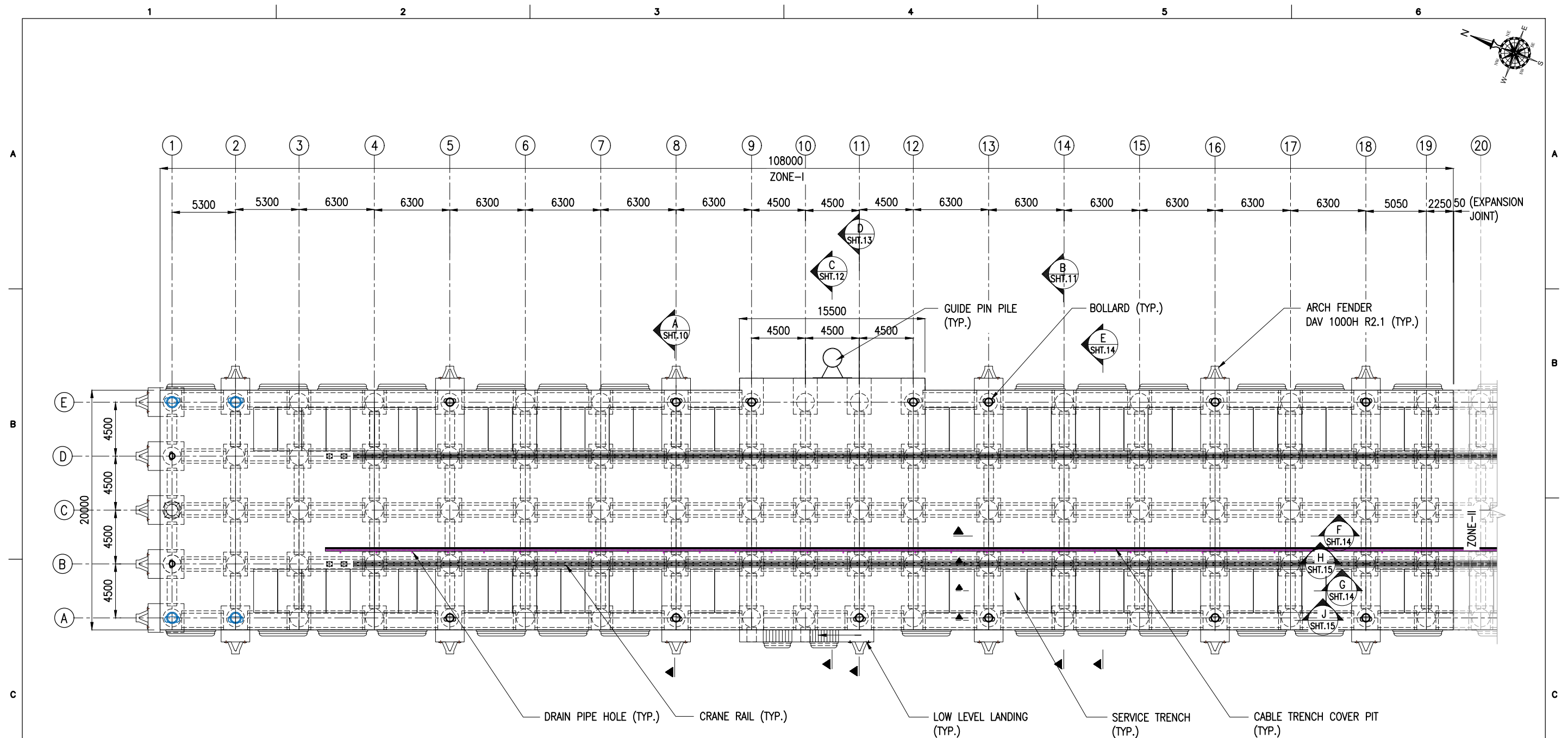
- NOTES:**
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CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 1 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-01			DATE: 20.05.26	REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&02 (SHEET 2 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-02			DATE: 20.05.26	REV: B

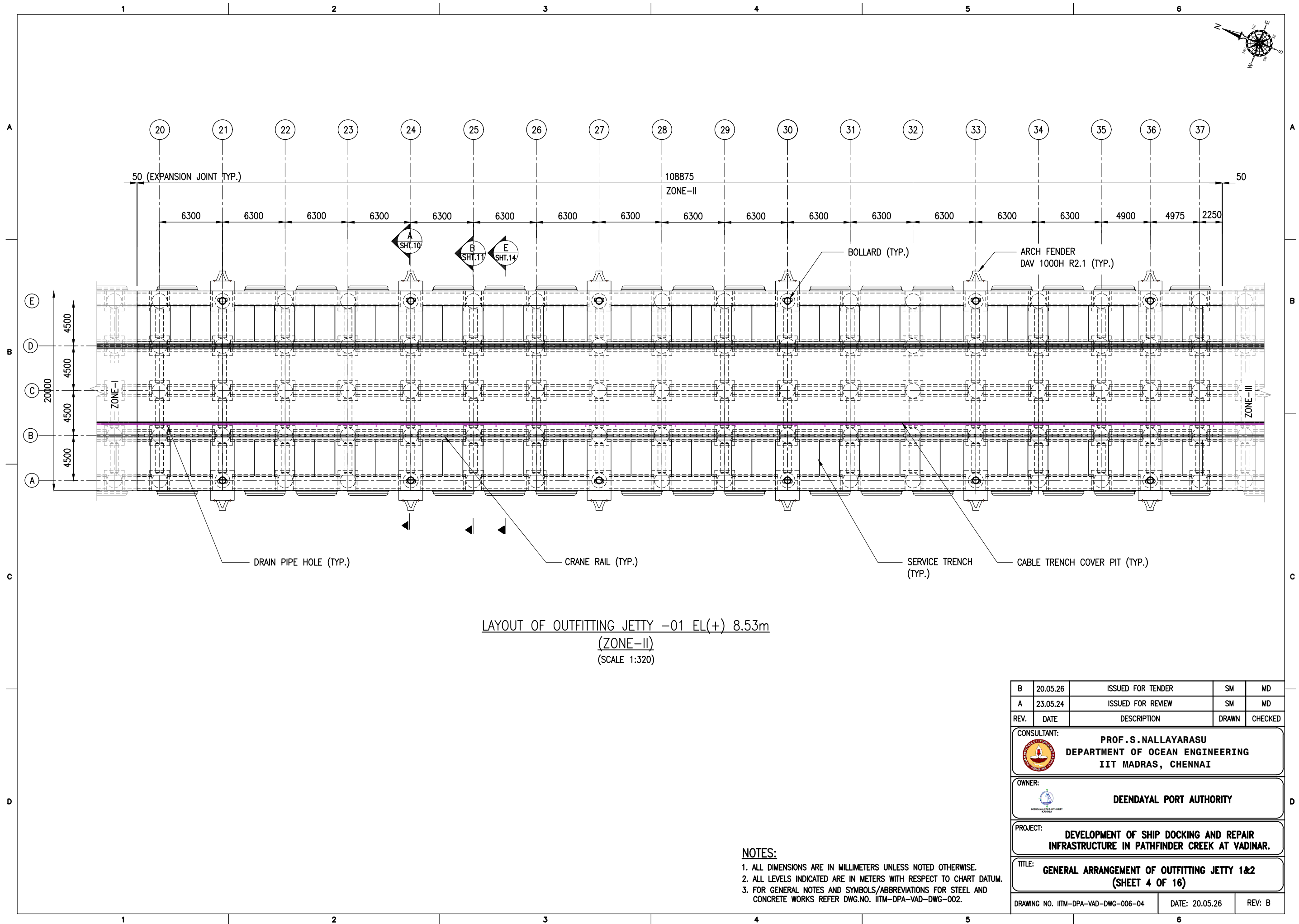


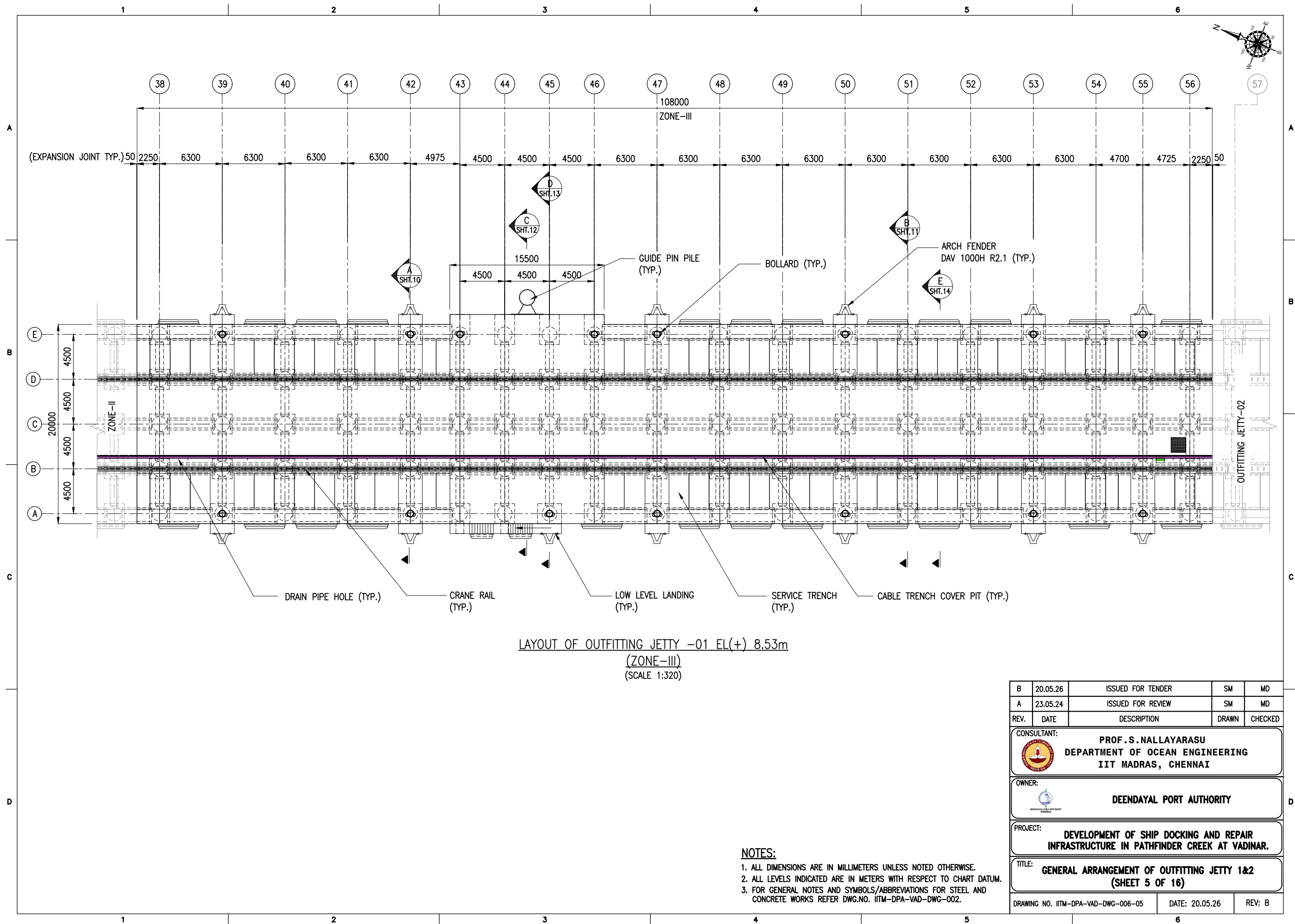
LAYOUT OF OUTFITTING JETTY -01 EL(+) 8.53
(ZONE-I)
(SCALE 1:320)



NOTES:

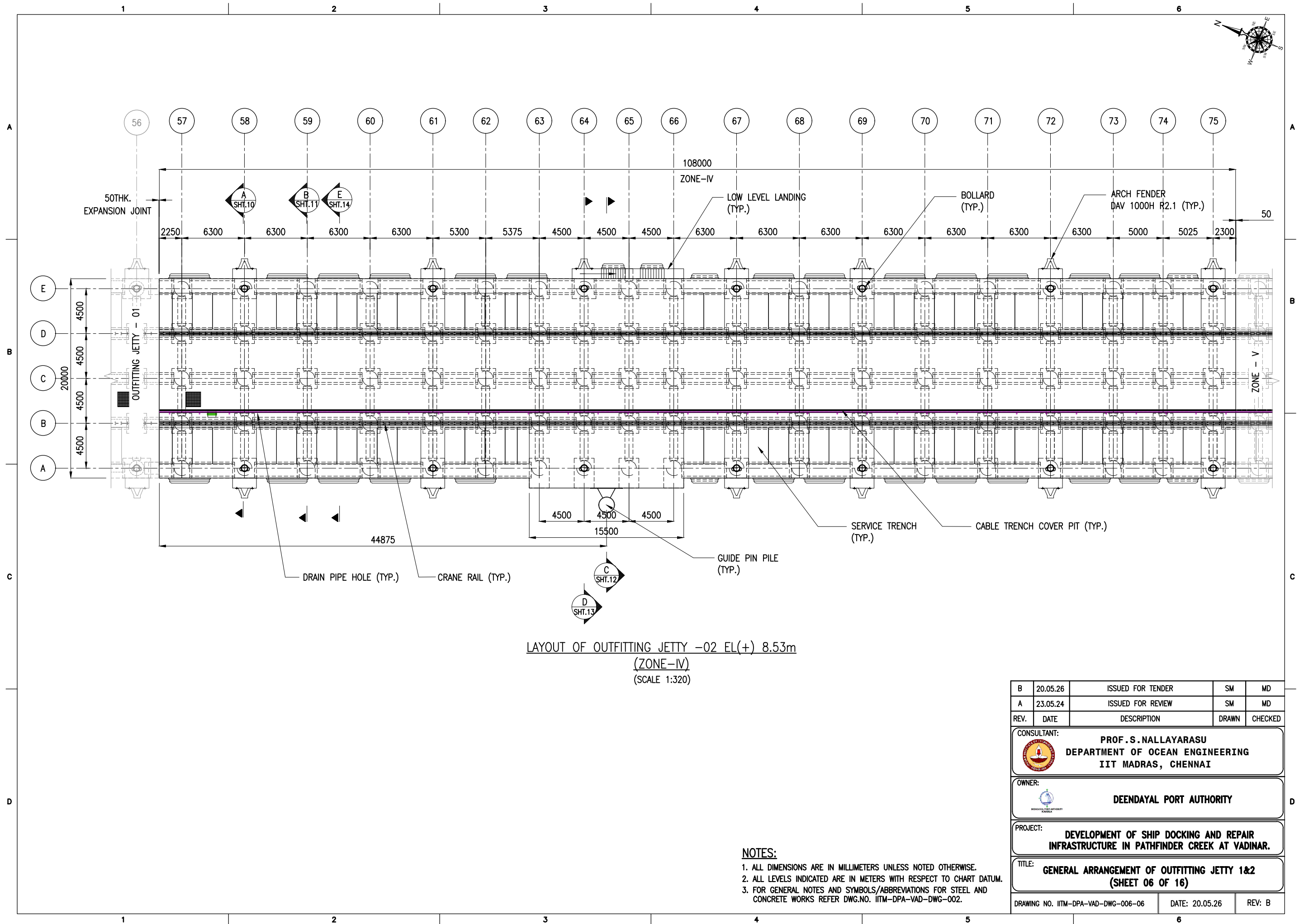
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 3 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWC-006-03			DATE: 20.05.26	REV: B

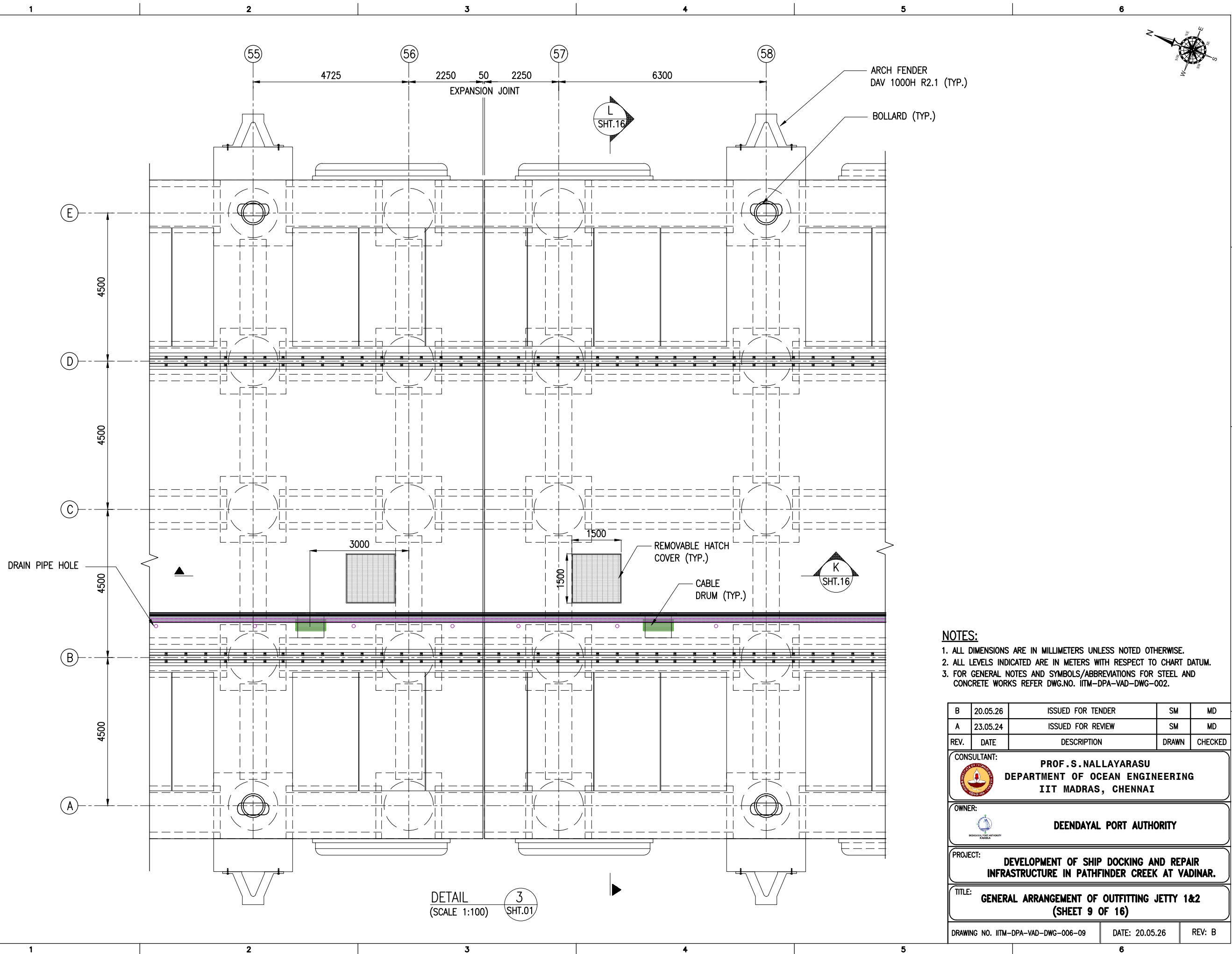






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OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 5 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-05			DATE: 20.05.26	REV: B

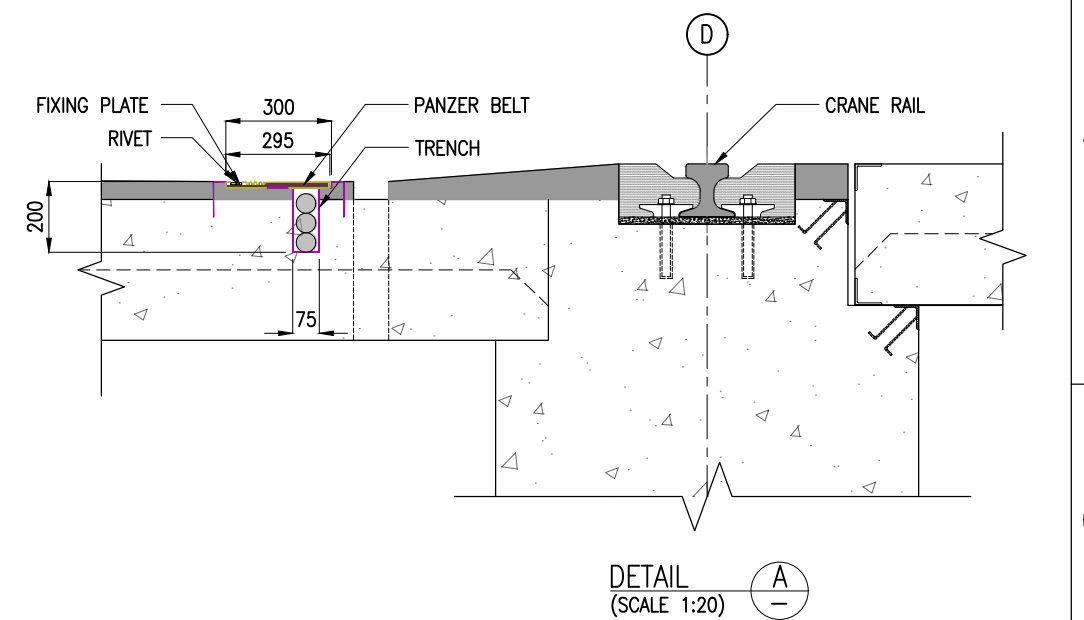
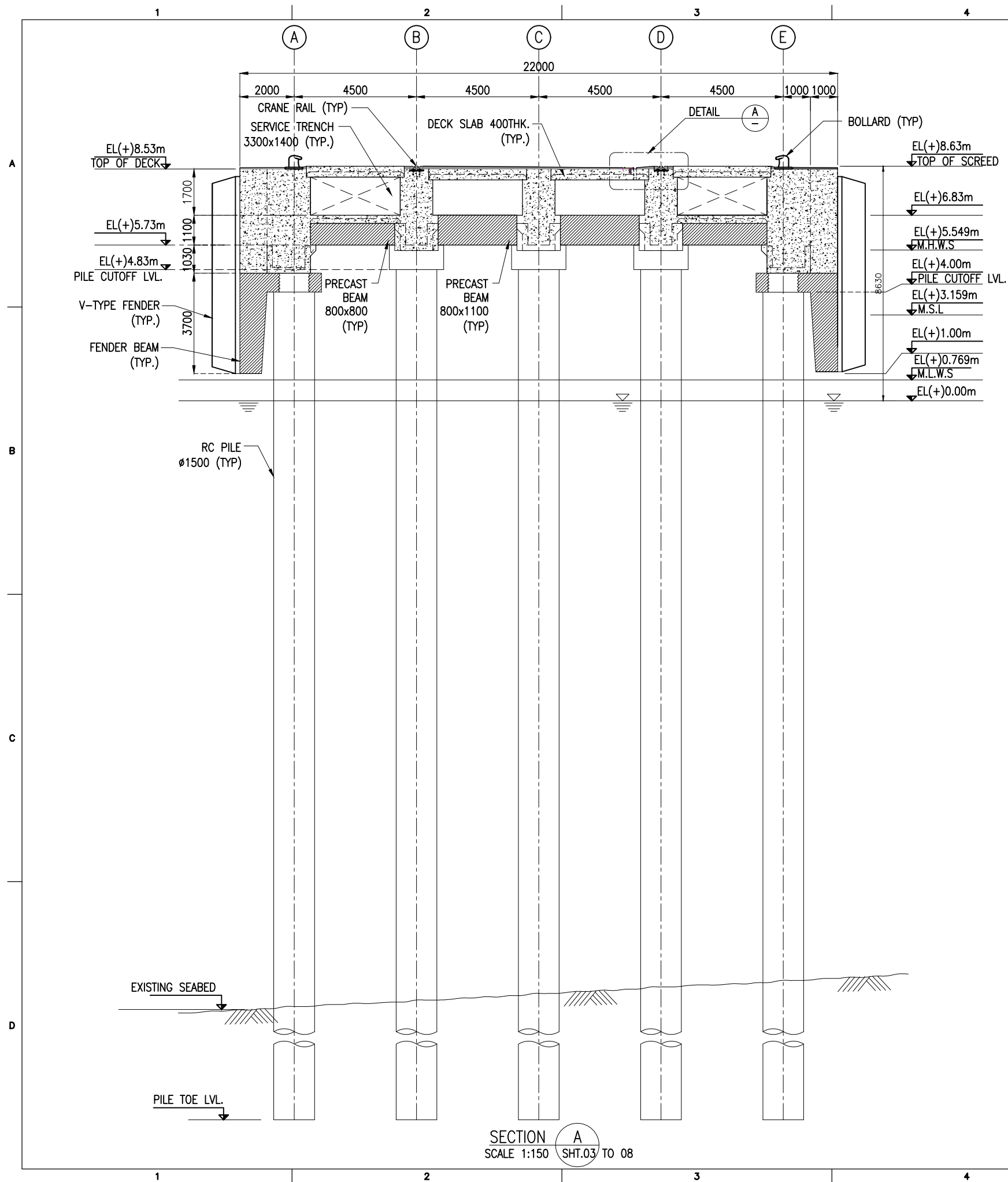


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A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 06 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-06			DATE: 20.05.26	REV: B





- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

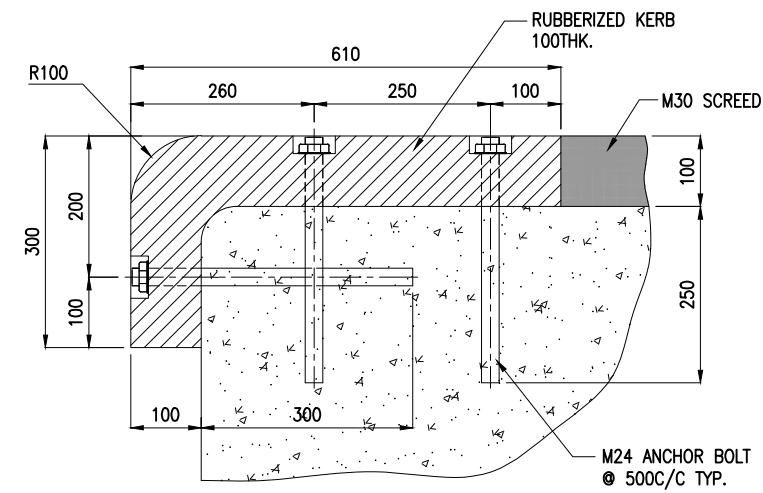
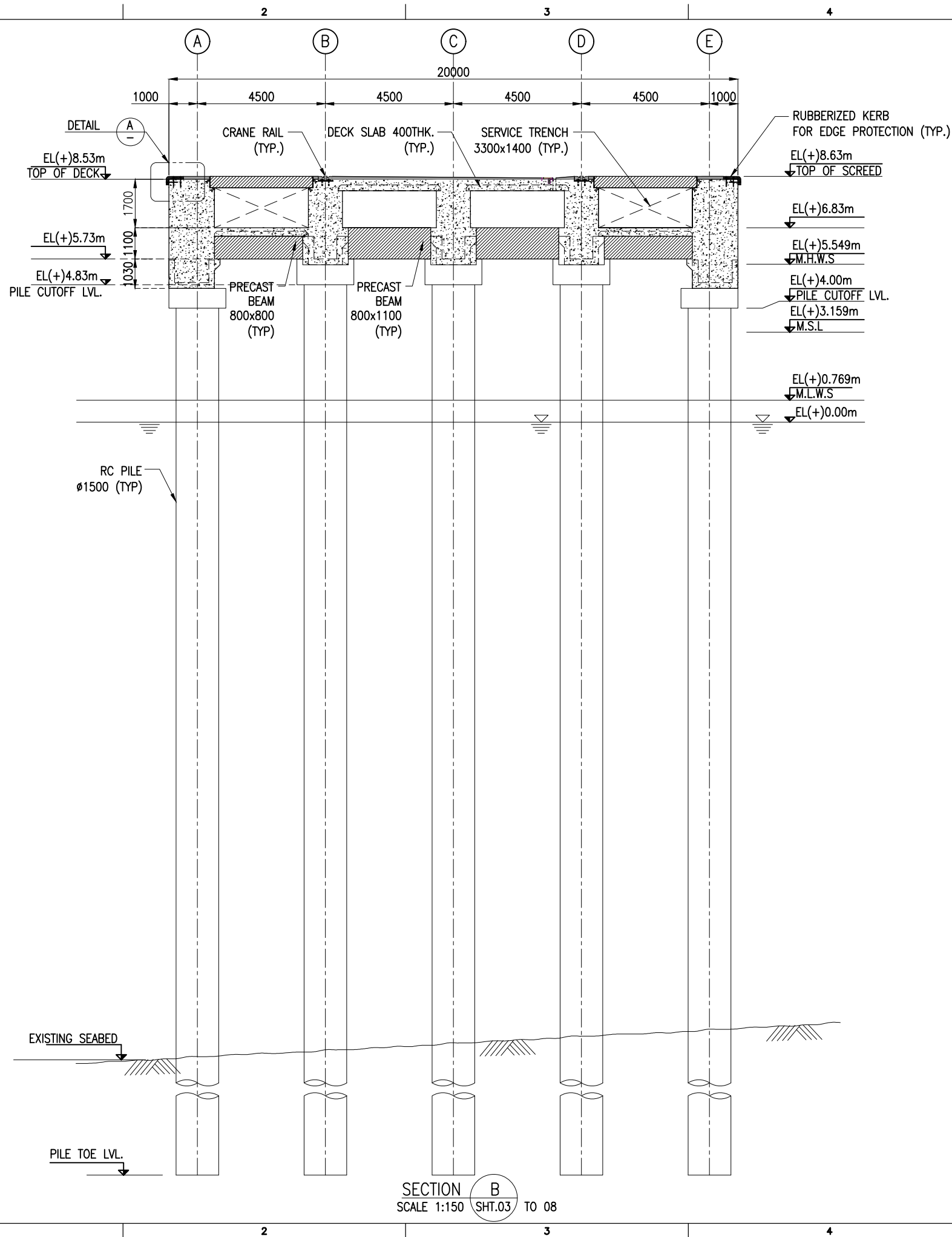
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 9 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-09		DATE: 20.05.26	REV: B	



NOTES:



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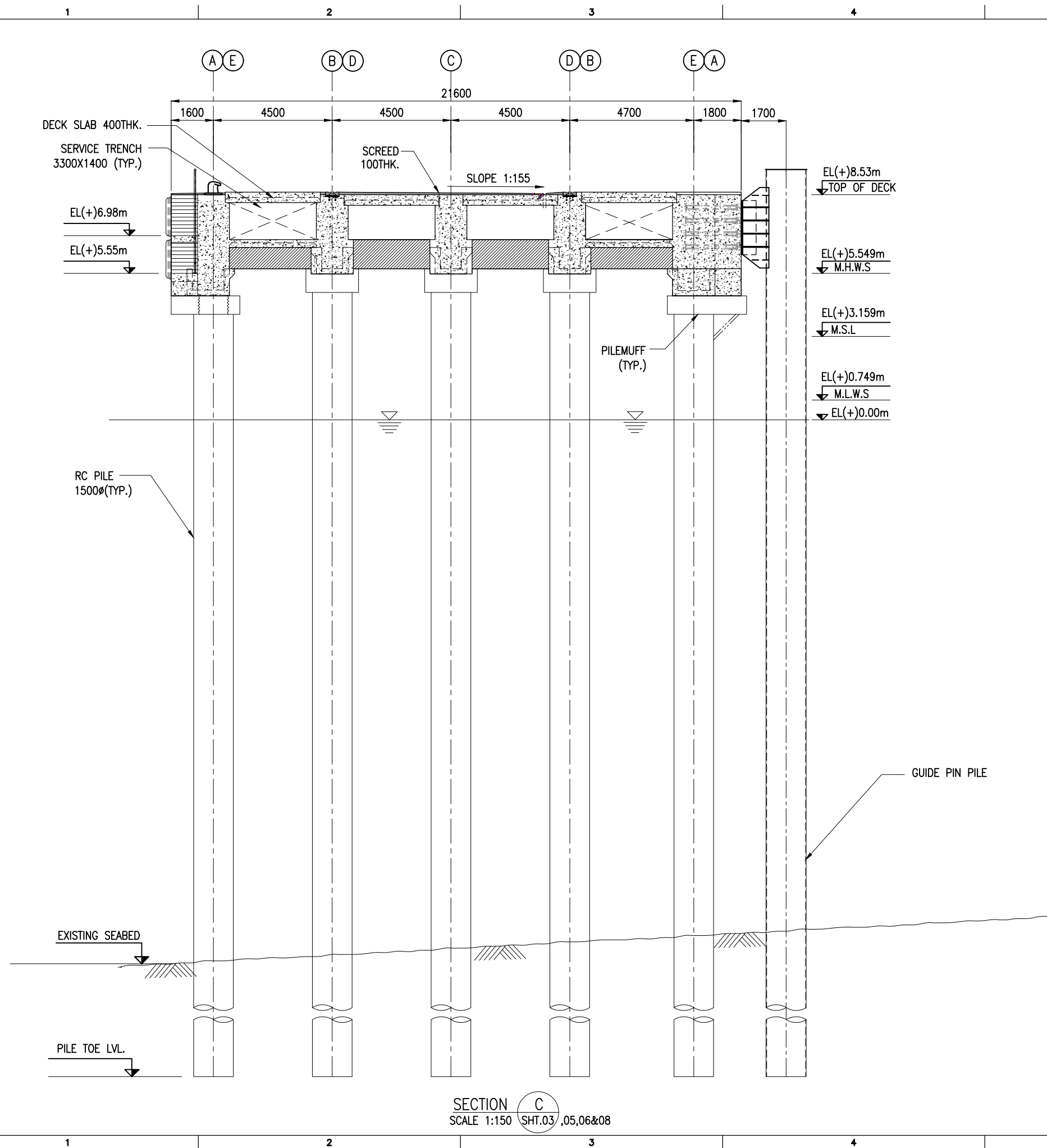
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR TENDER	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 10 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-10			DATE: 20.05.26	REV: B



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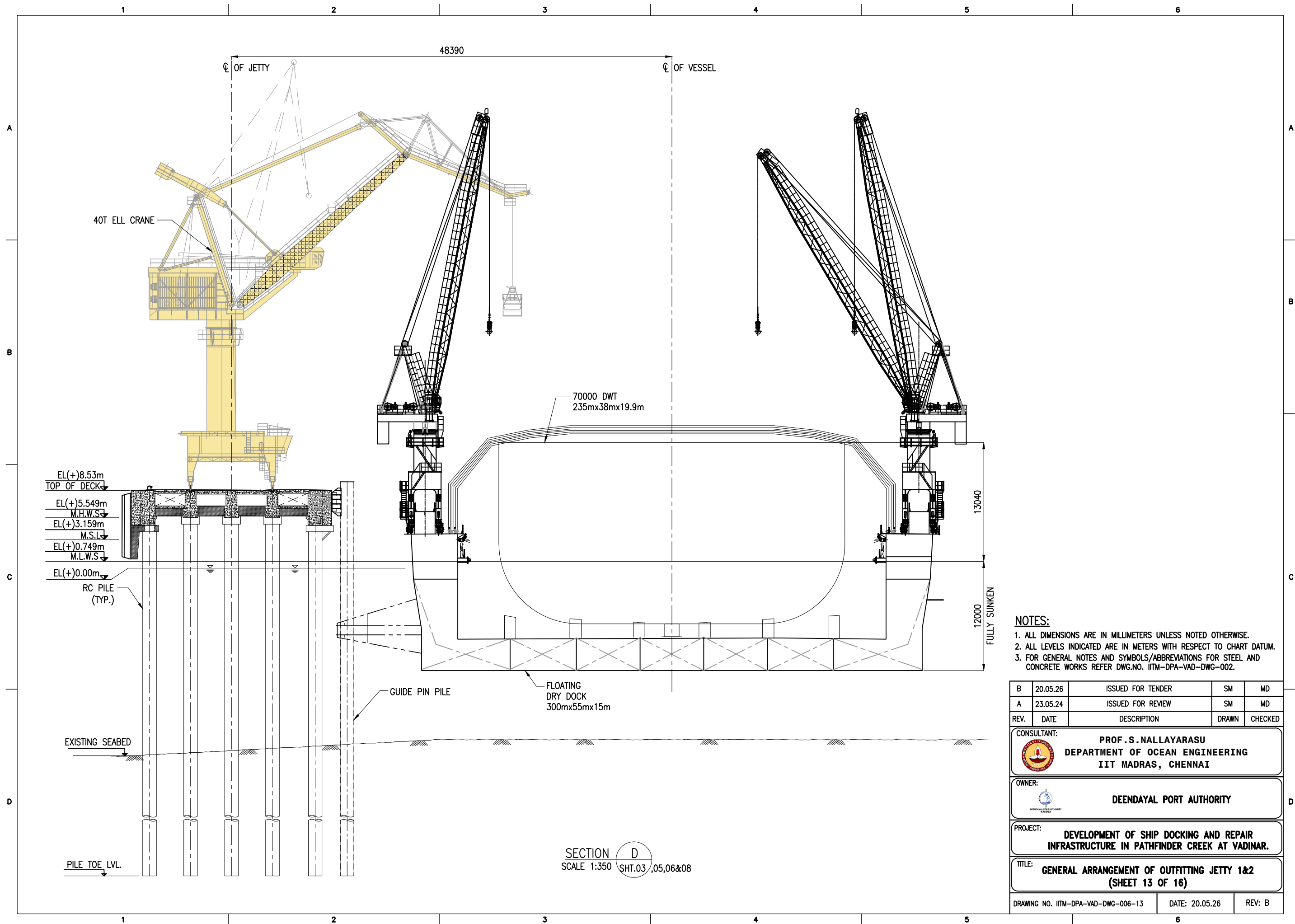
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

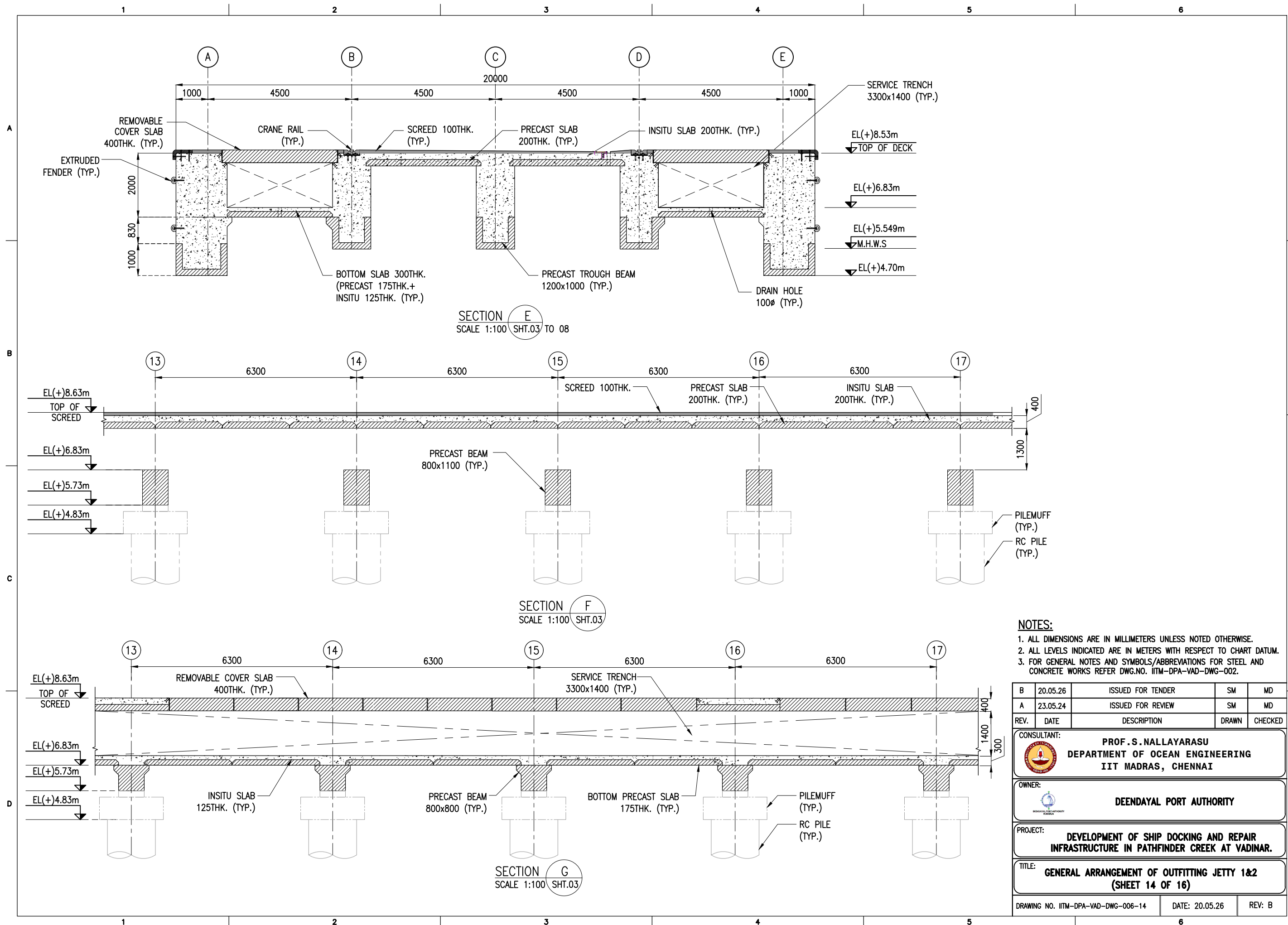
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A	23.05.24	ISSUED FOR REVIEW	SM	MD
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CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 11 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-11		DATE: 20.05.26		REV: B

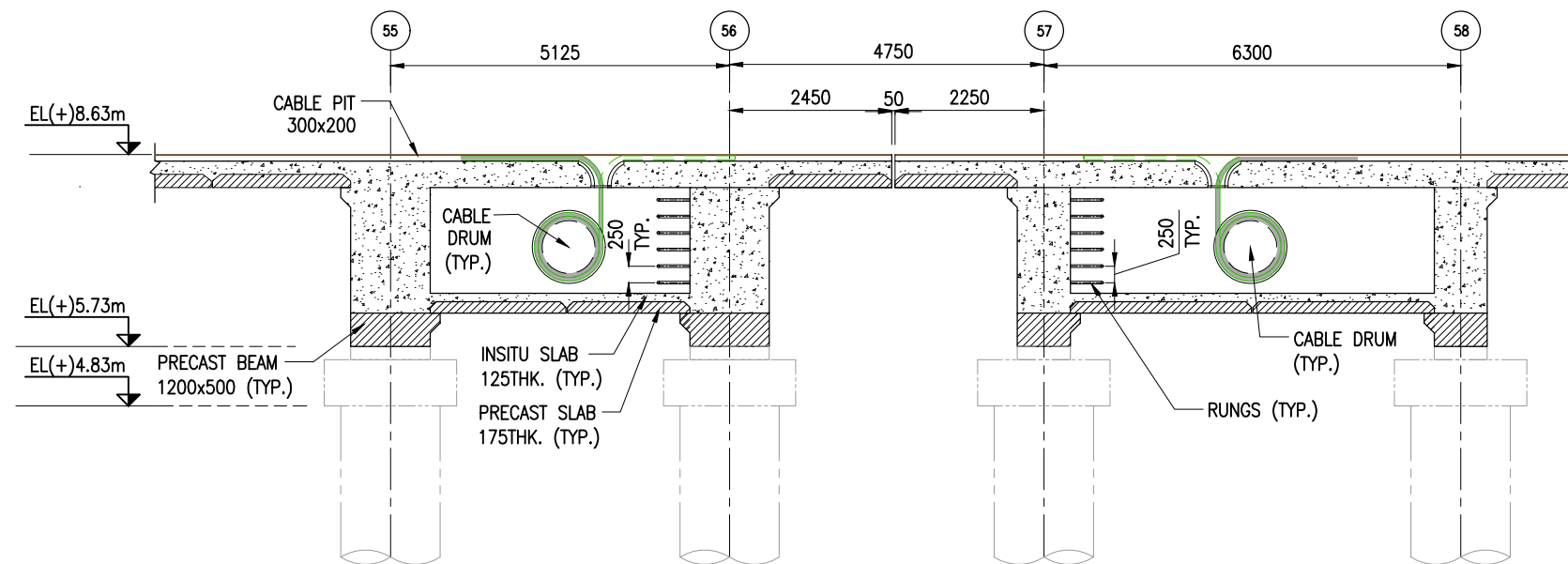


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

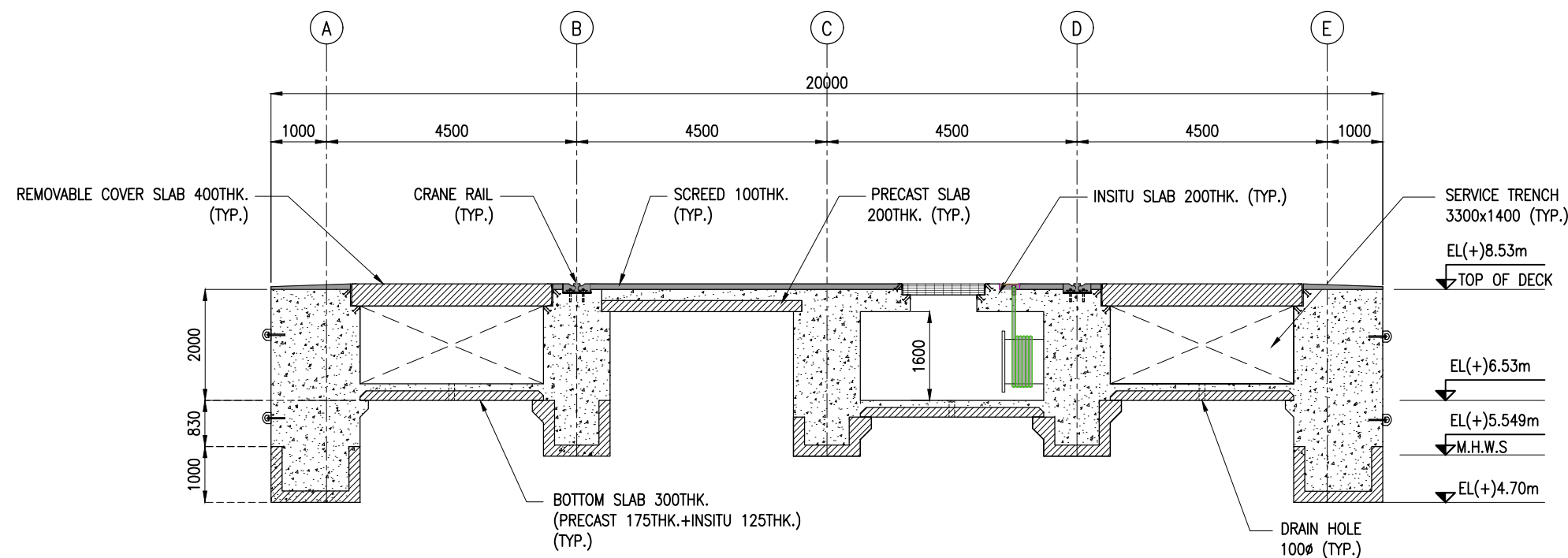
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&02 (SHEET 12 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-12		DATE: 20.05.26		REV: B









SECTION K
SCALE 1:100 SHT.09

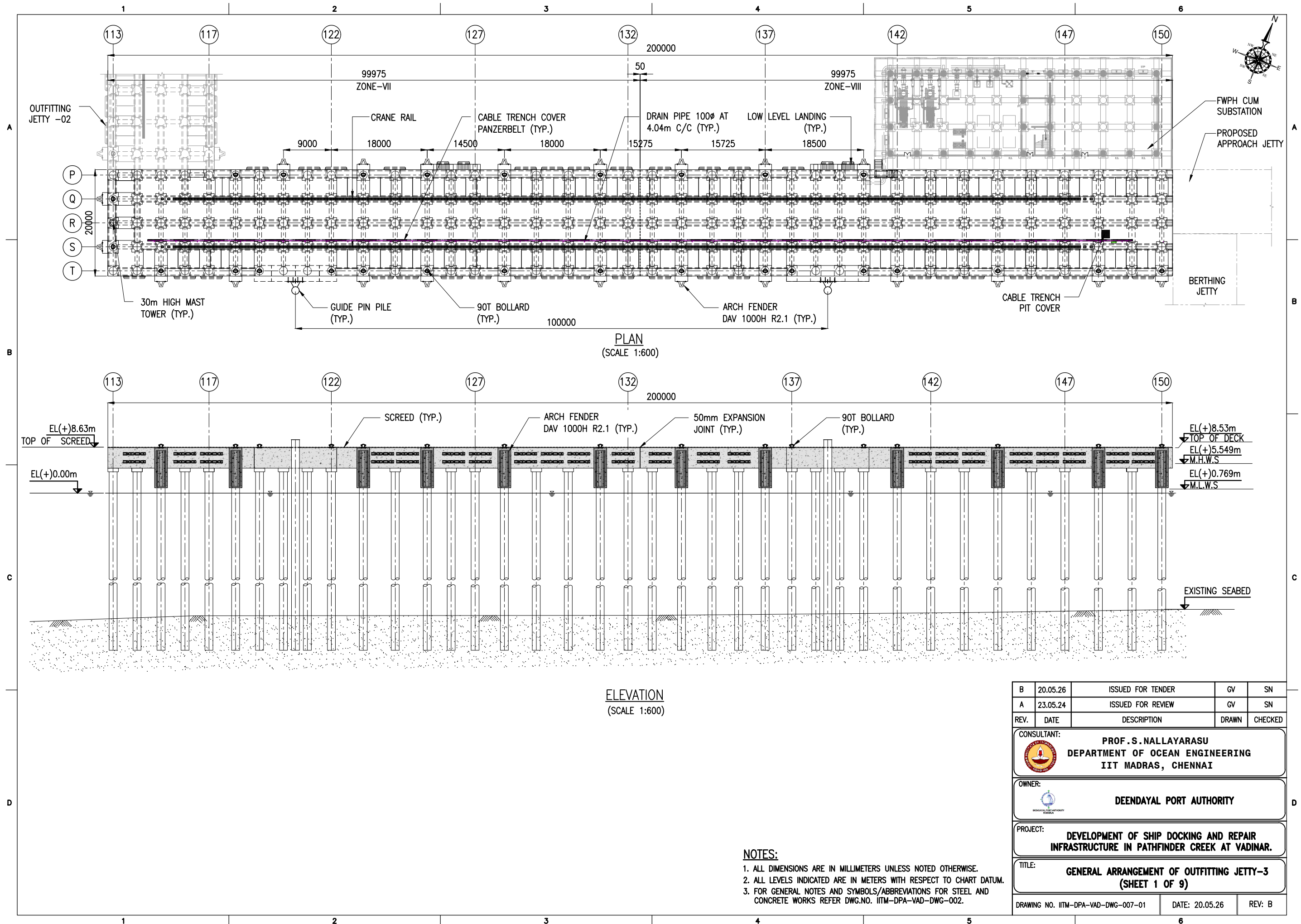


SECTION L
SCALE 1:100 SHT.09

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

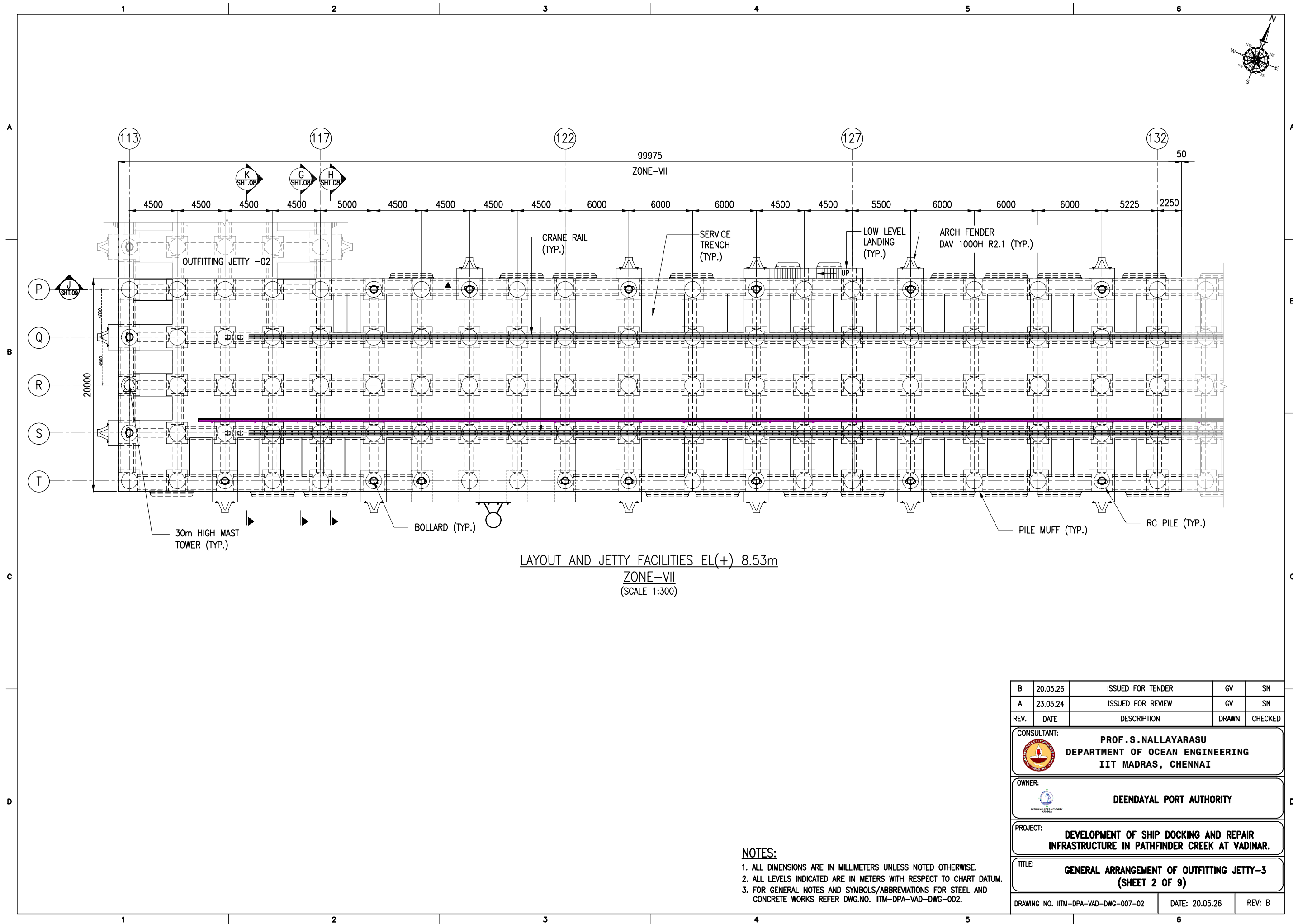
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CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY 1&2 (SHEET 16 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-006-16		DATE: 20.05.26		REV: B

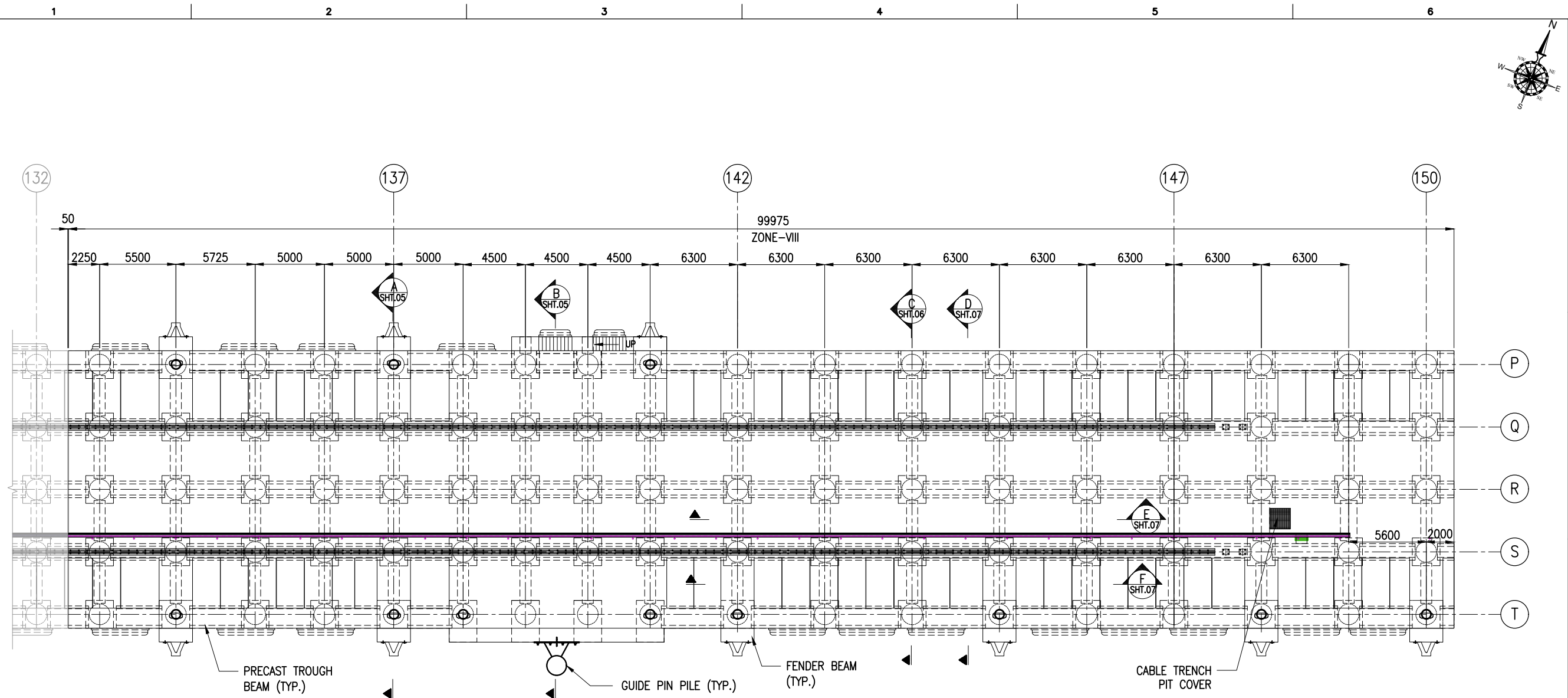


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 1 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-01			DATE: 20.05.26	REV: B





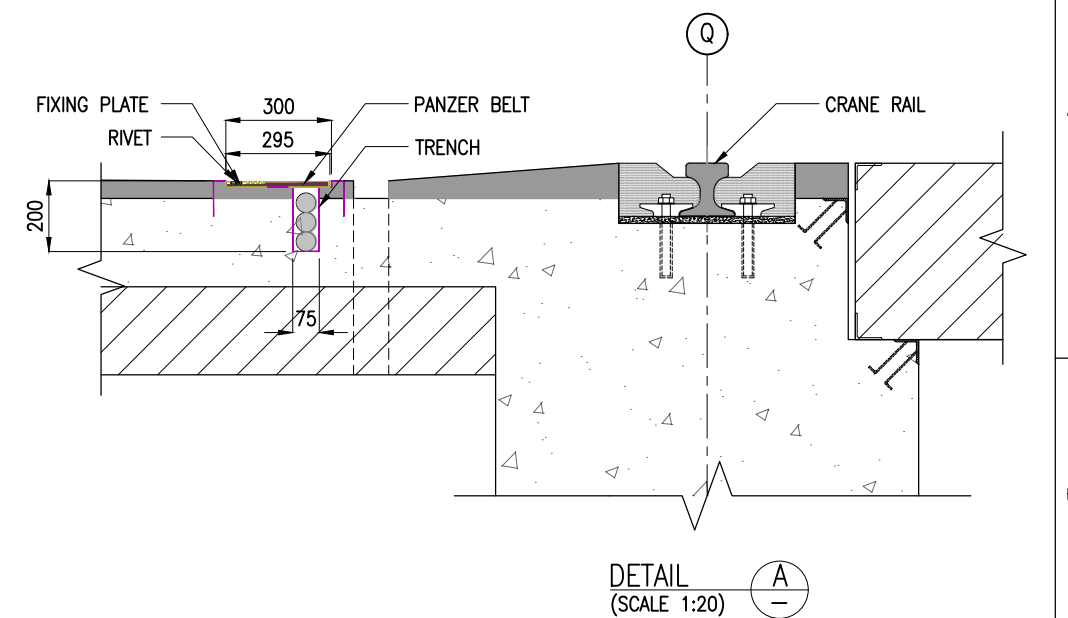
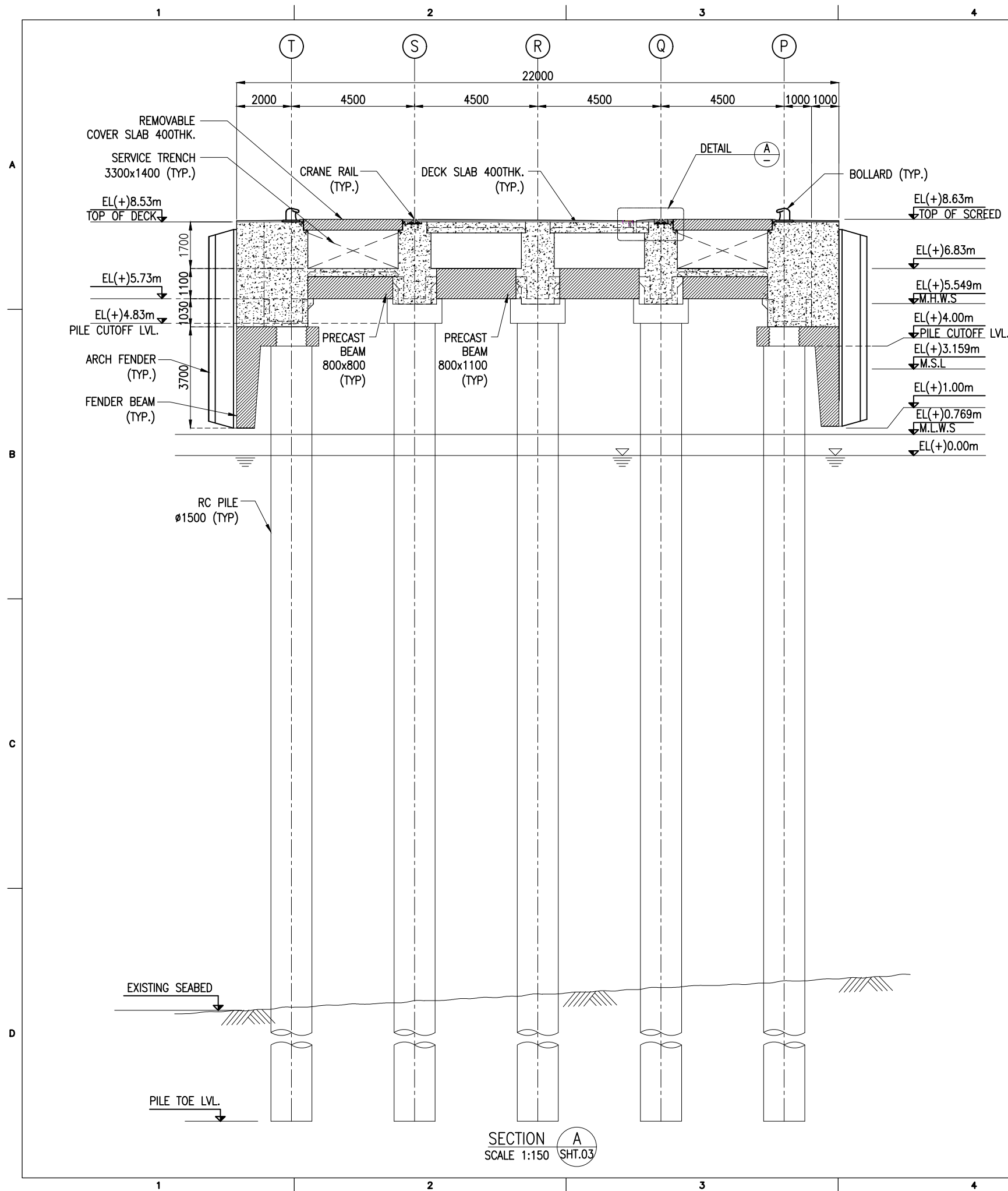


LAYOUT AND JETTY FACILITIES EL(+) 8.53m
ZONE-VIII
(SCALE 1:300)

NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
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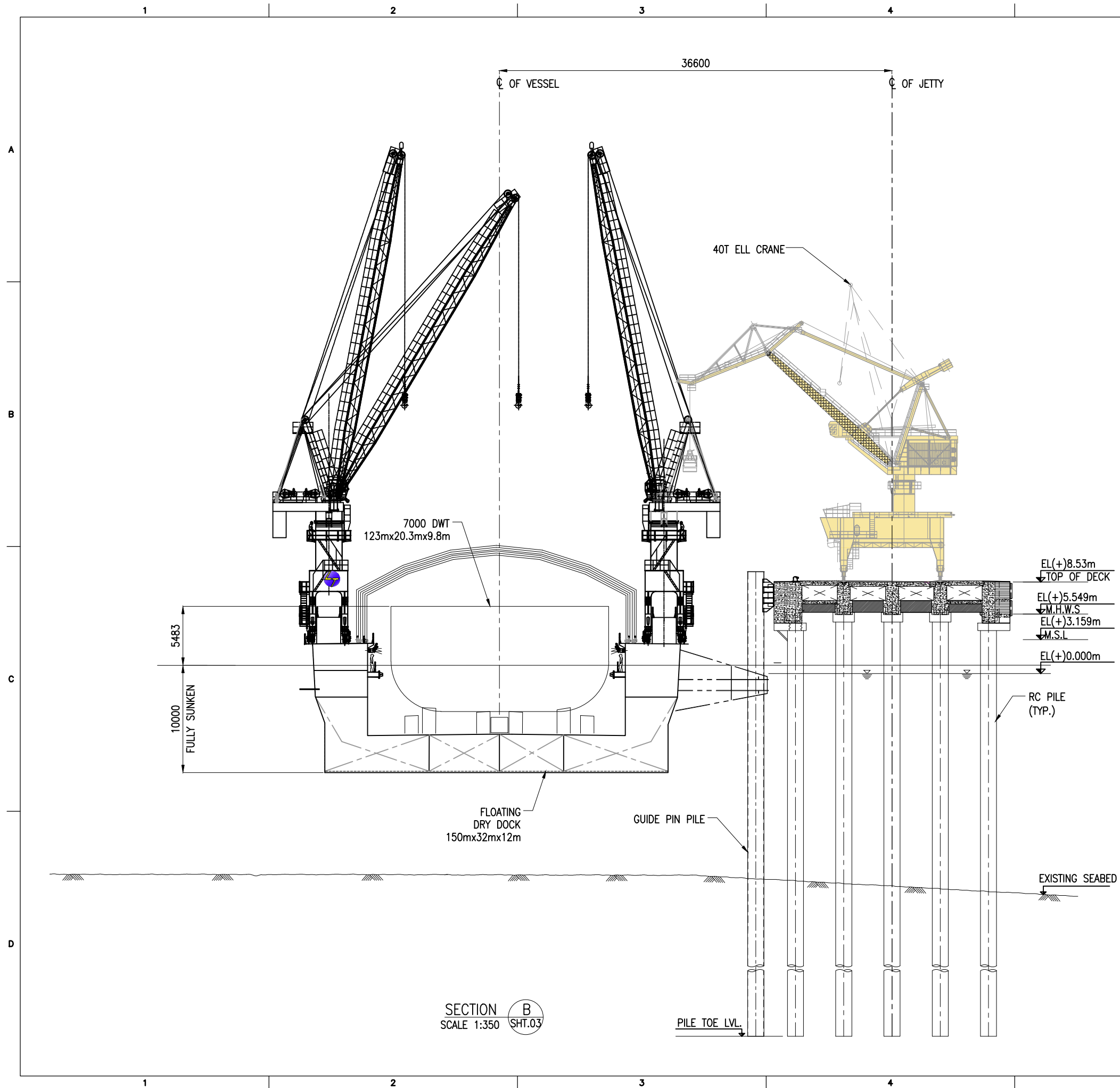
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 3 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-03			DATE: 20.05.26	REV: B



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

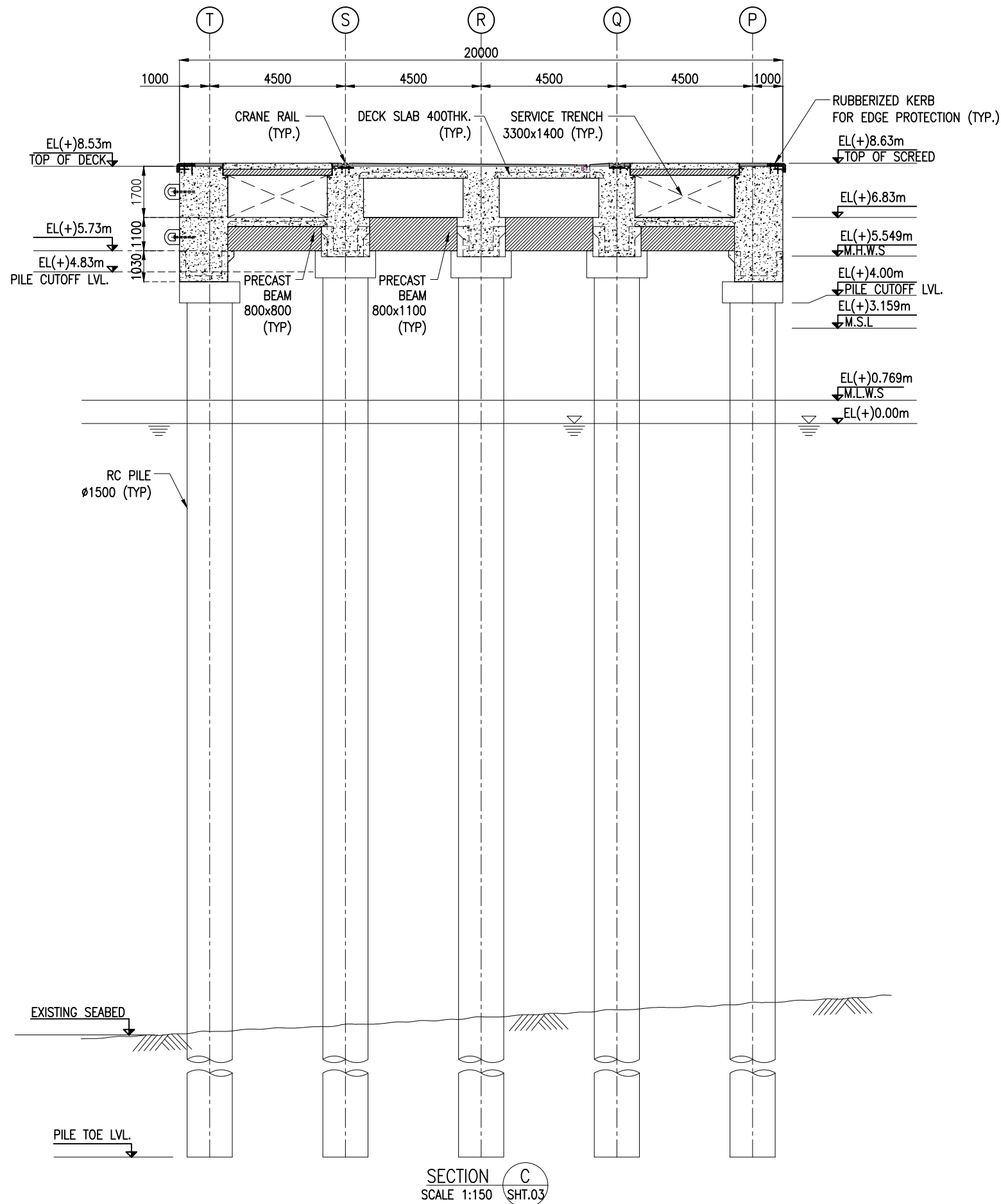
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CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 4 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-04			DATE: 20.05.26	REV: B



NOTES:



- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

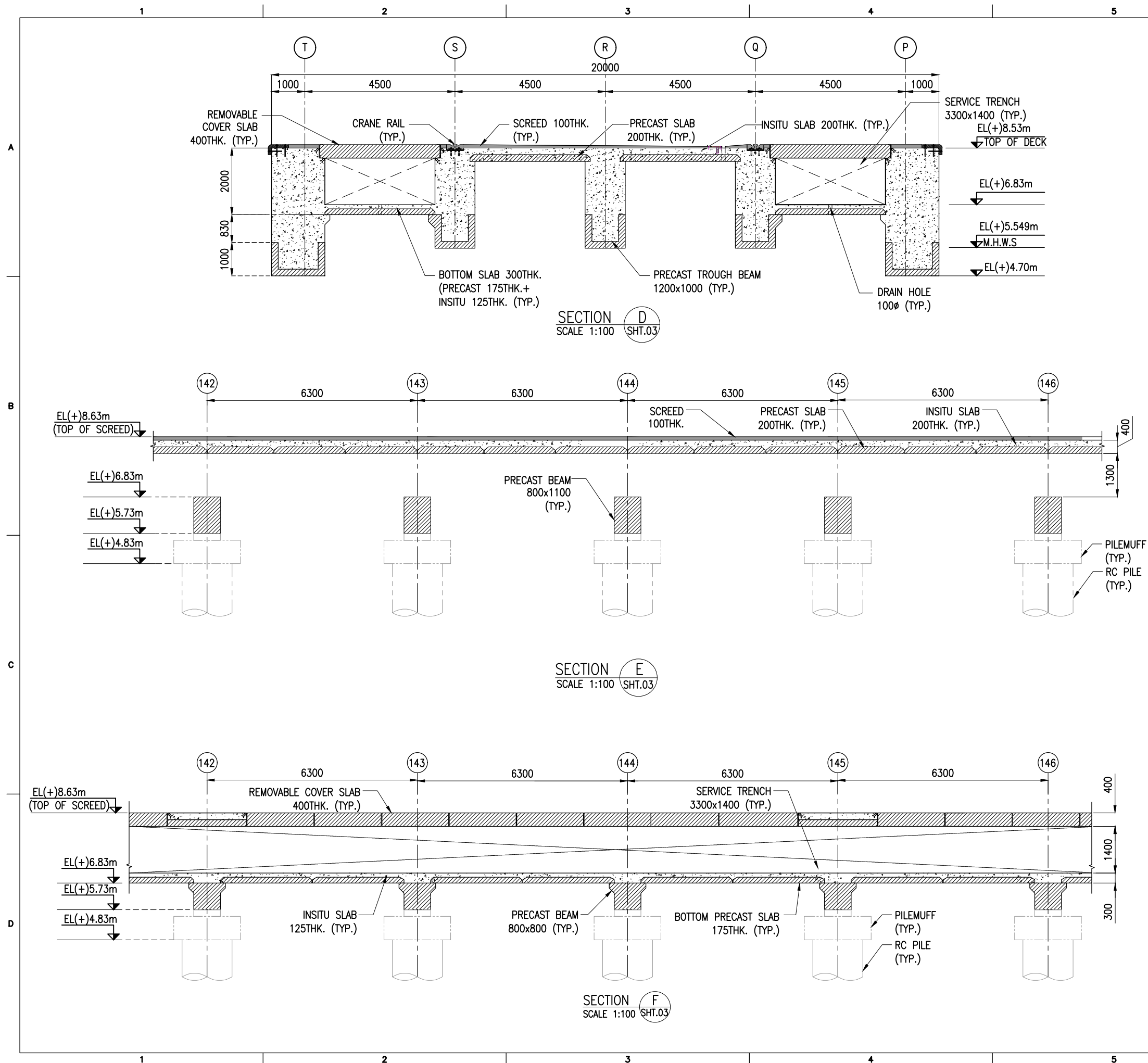
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 5 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-05		DATE: 20.05.26		REV: B



NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

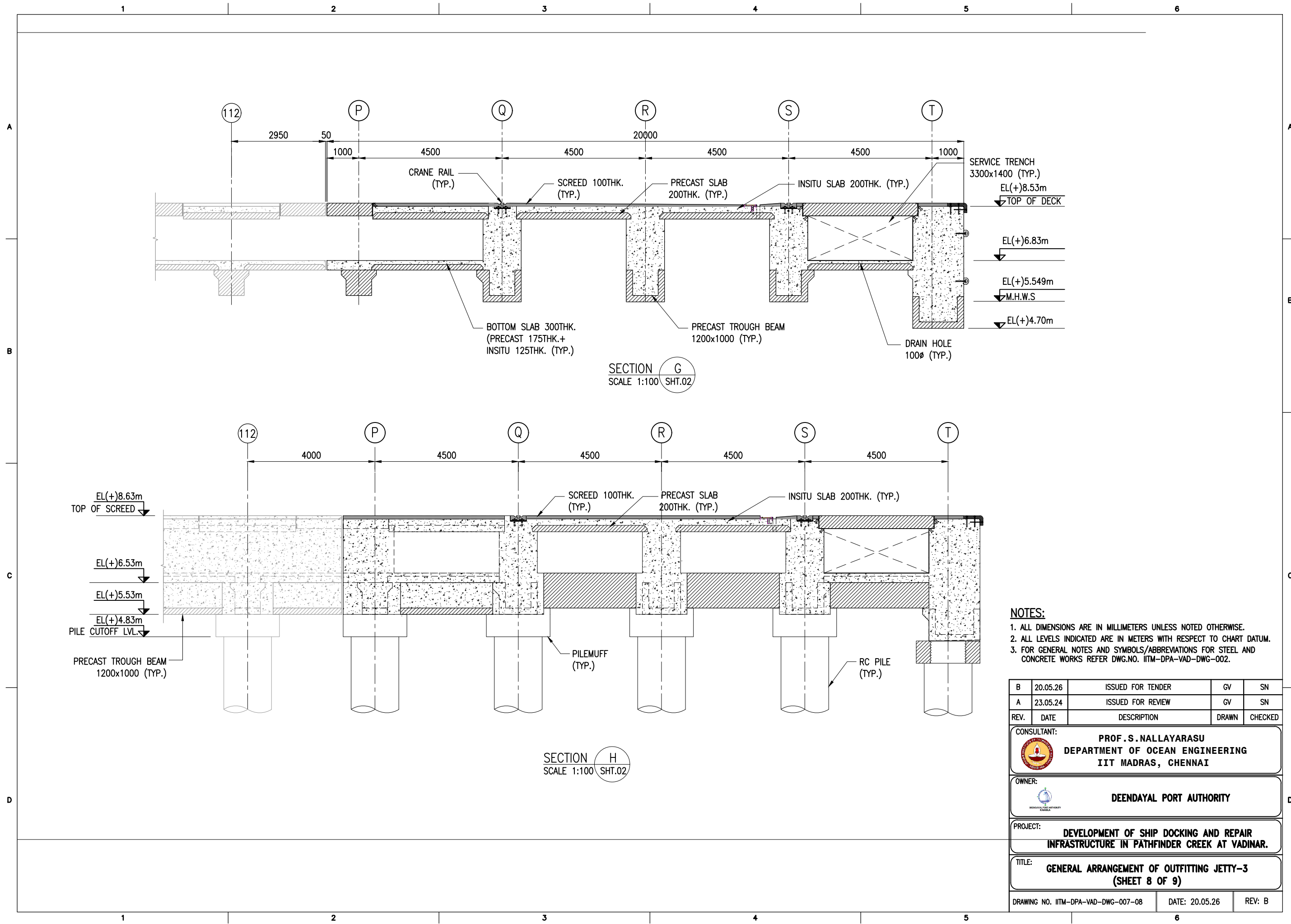
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 6 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-06		DATE: 20.05.26		REV: B





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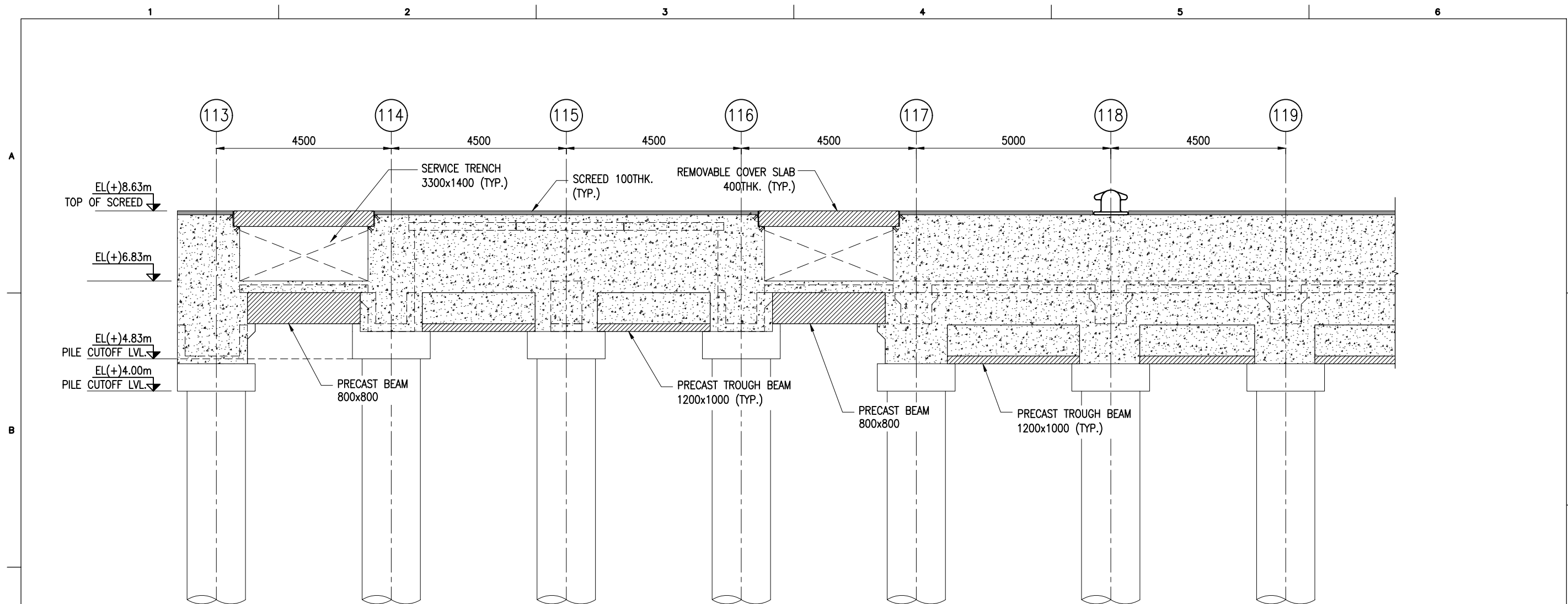
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 7 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-07		DATE: 20.05.26		REV: B

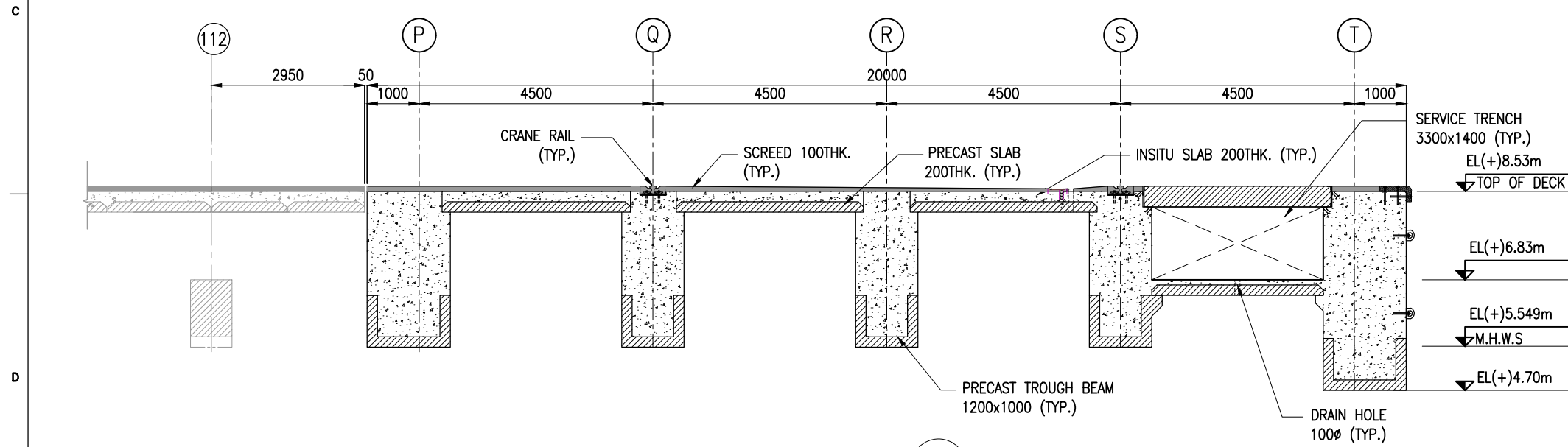


- NOTES:**
- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 - 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	SN
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 8 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-08		DATE: 20.05.26		REV: B



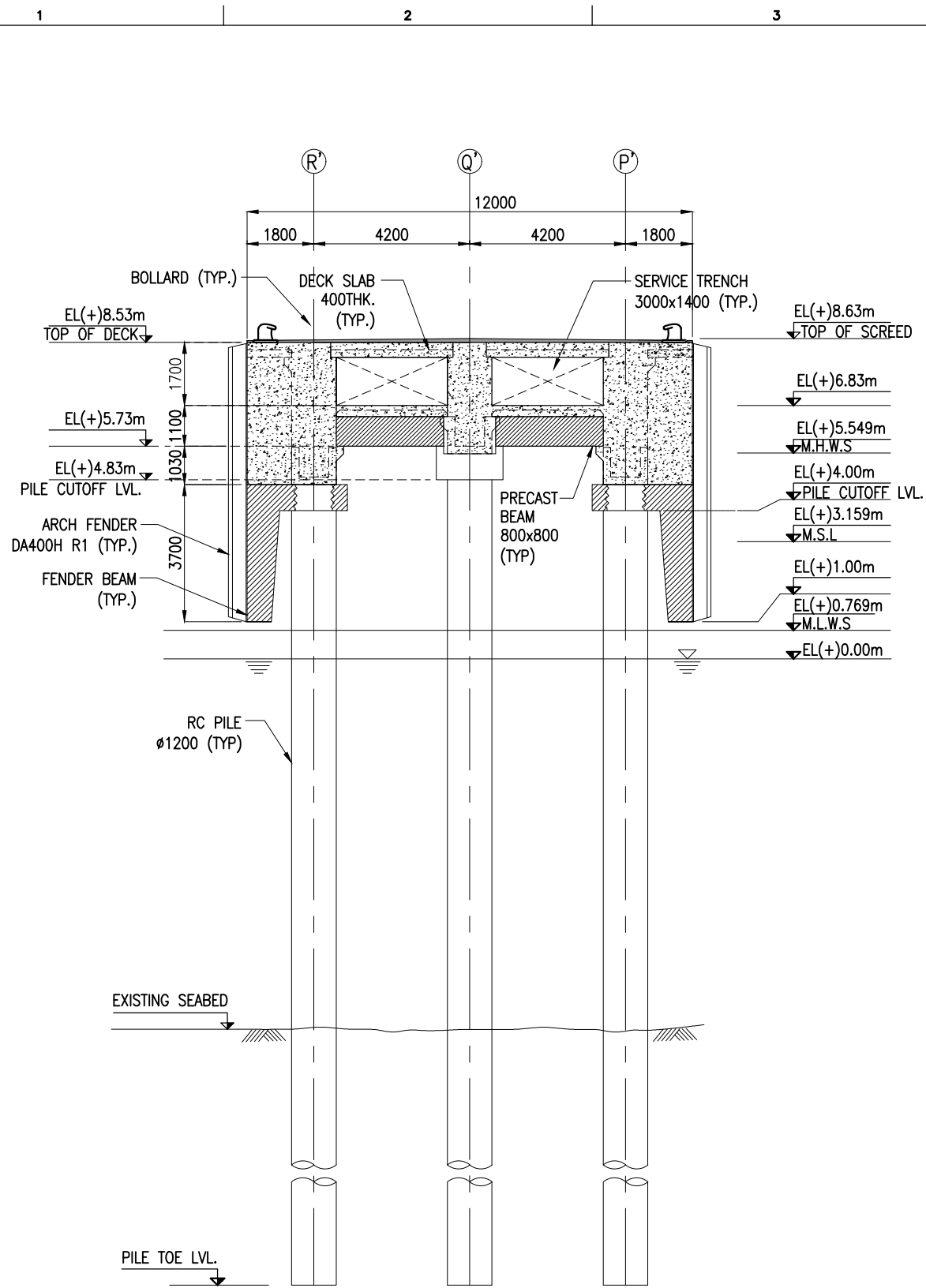
SECTION J
SCALE 1:100 SHT.02



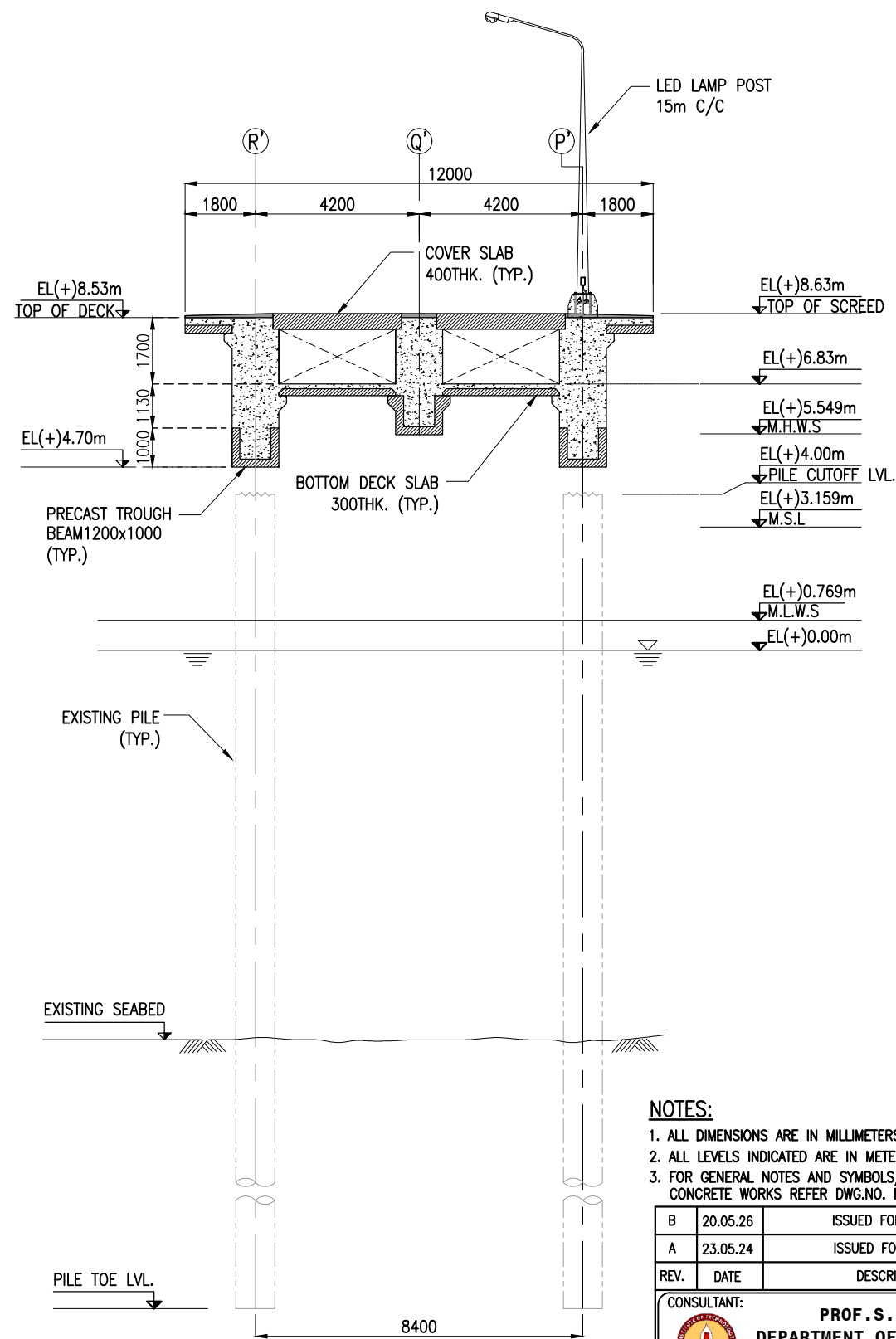
SECTION K
SCALE 1:100 SHT.02

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	SN
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-3 (SHEET 9 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-007-09		DATE: 20.05.26		REV: B





SECTION A
SCALE 1:150 SHT.01

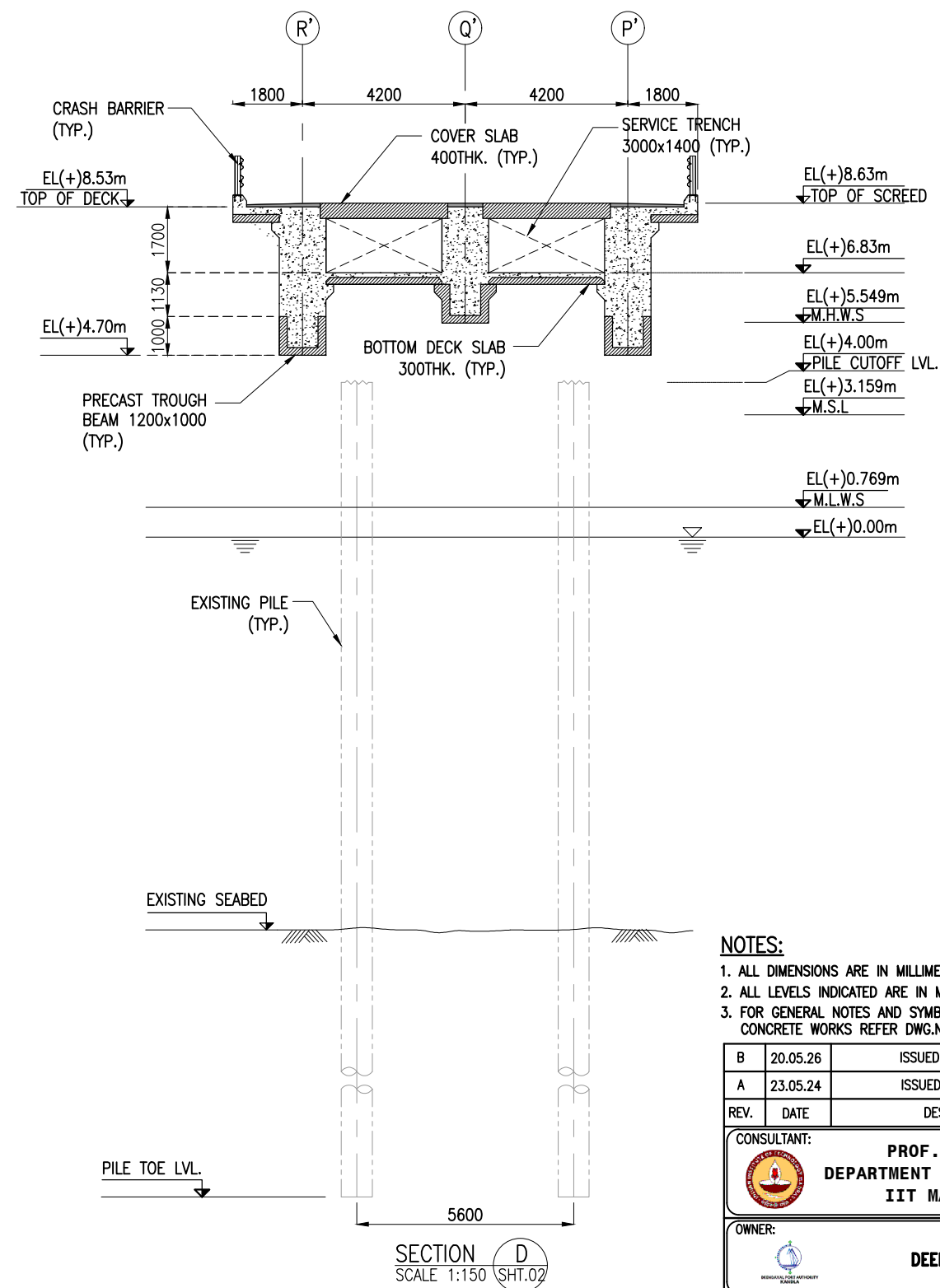
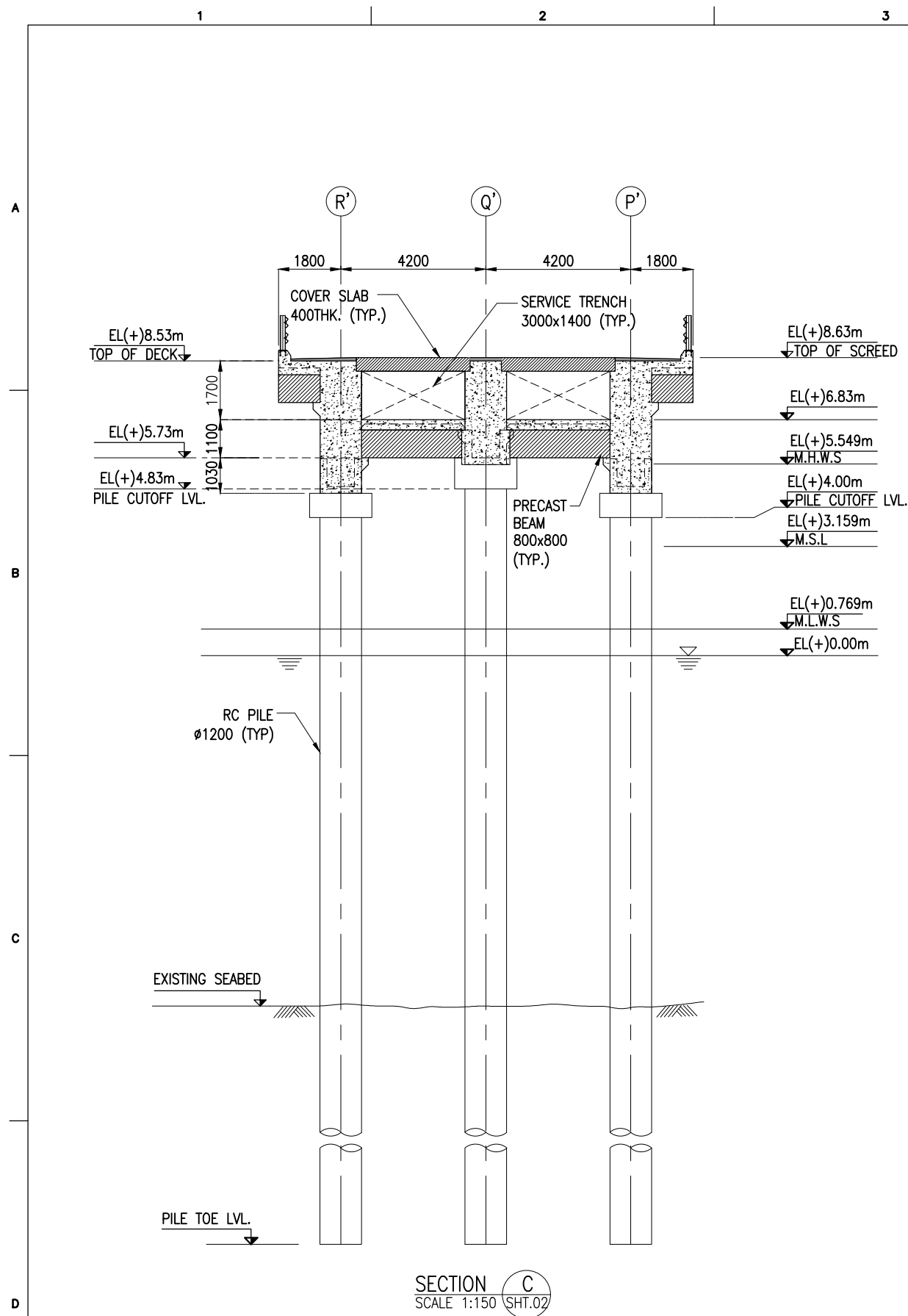


SECTION B
SCALE 1:150 SHT.01

NOTES:



- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

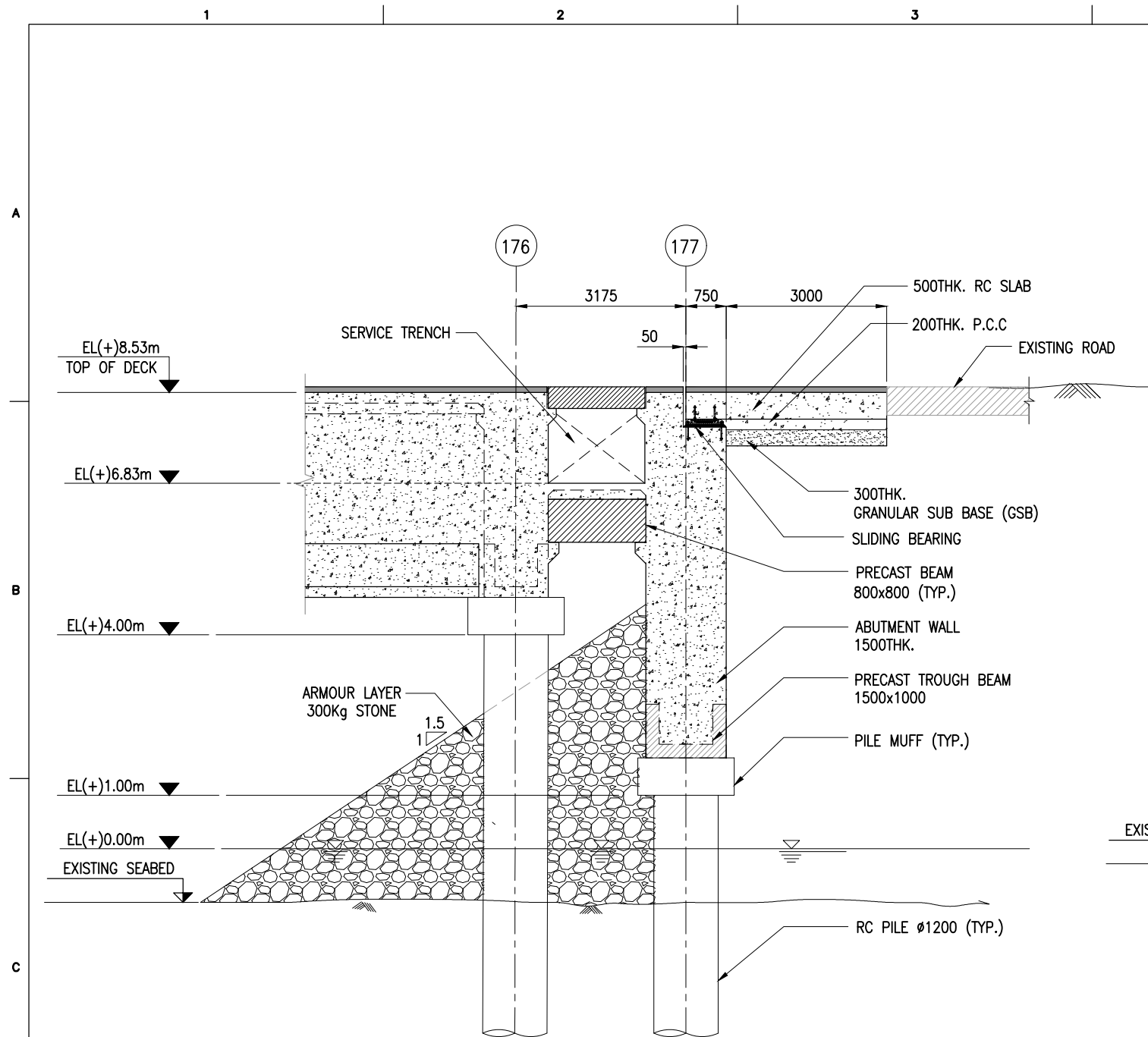
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CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
LAYOUT AND SECTIONS OF PROPOSED BERTHING AND APPROACH JETTY (SHEET 2 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-008-02			DATE: 20.05.26	REV: B



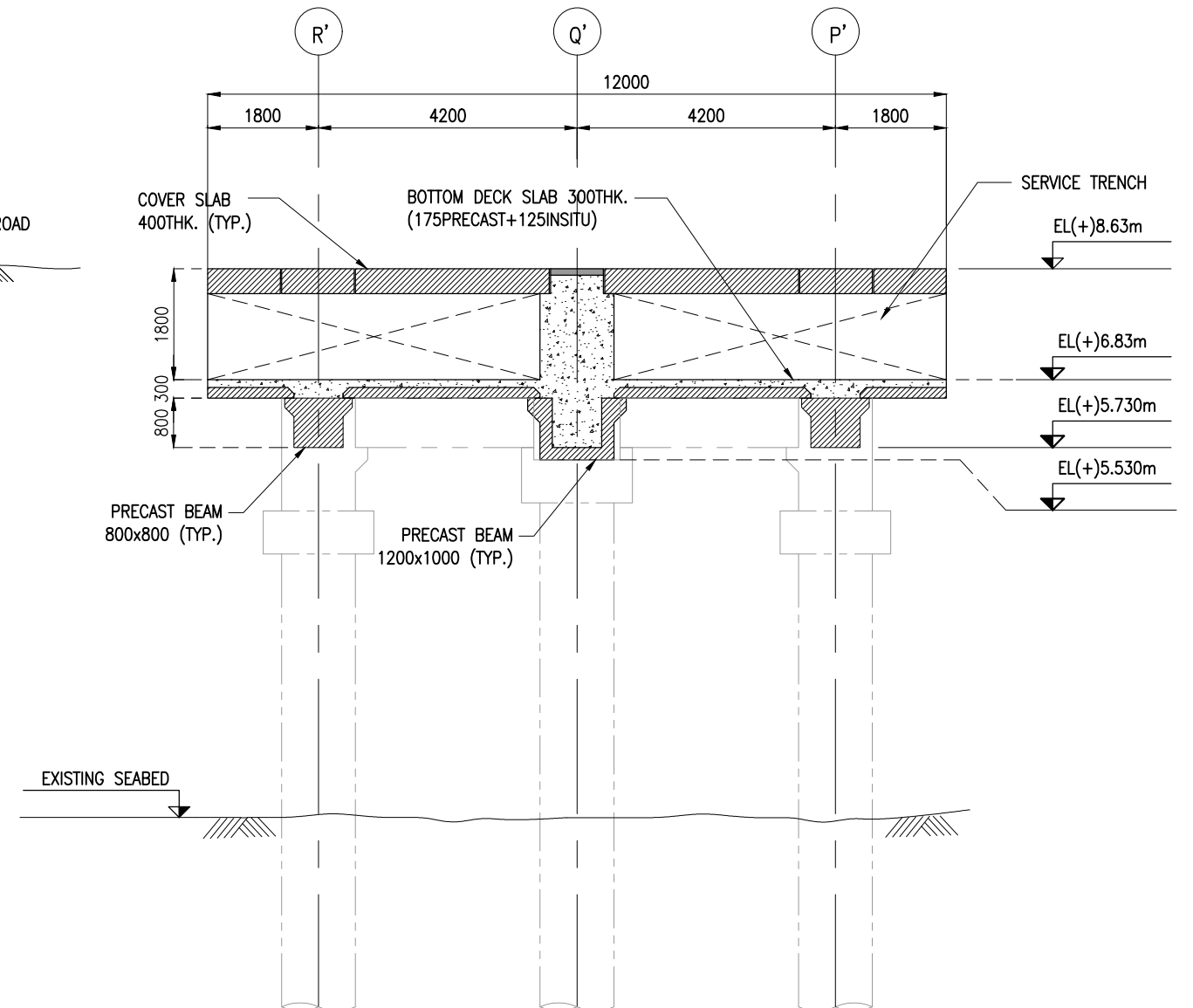
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
LAYOUT AND SECTIONS OF PROPOSED BERTHING AND APPROACH JETTY (SHEET 3 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-008-03			DATE: 20.05.26	REV: B



SECTION E
SCALE 1:100 SHT.01




SECTION F
SCALE 1:100 SHT.01

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

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A	23.05.24	ISSUED FOR REVIEW	DV	SN
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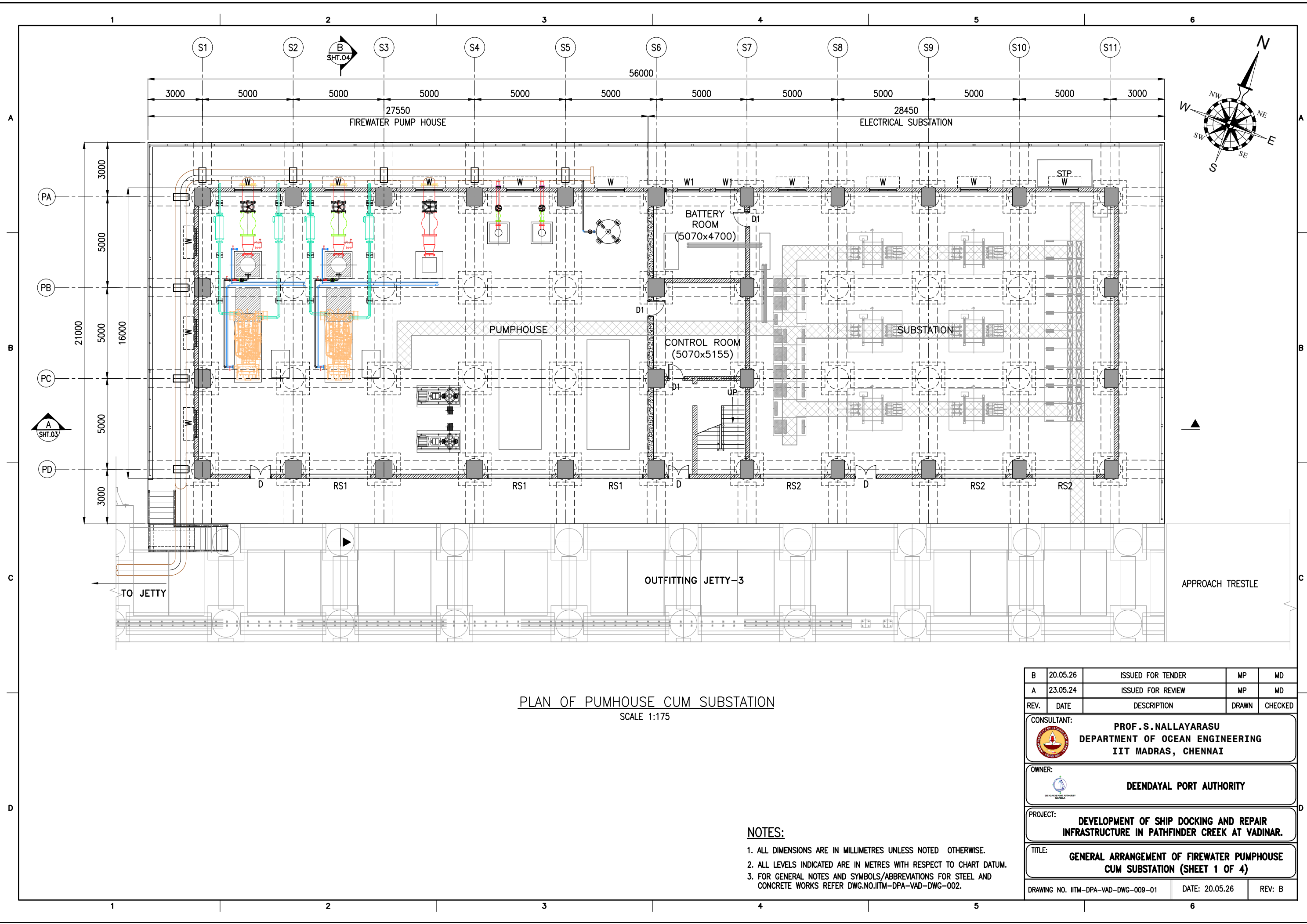
CONSULTANT:	 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI
-------------	---

OWNER:	 DEENDAYAL PORT AUTHORITY
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PROJECT:	DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.
----------	--

TITLE:	LAYOUT AND SECTIONS OF PROPOSED BERTHING AND APPROACH JETTY (SHEET 4 OF 4)
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DRAWING NO. IITM-DPA-VAD-DWG-008-04	DATE: 20.05.26	REV: B
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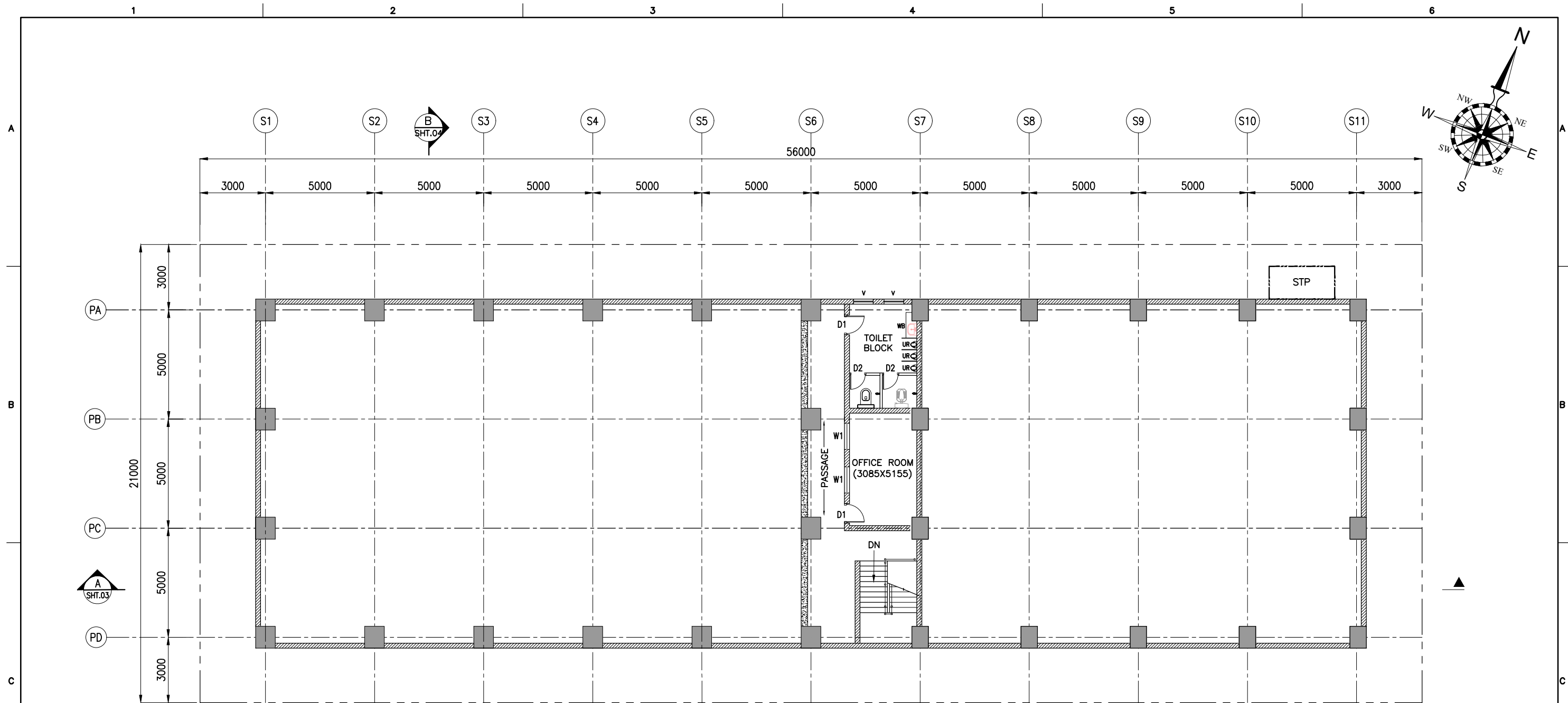


PLAN OF PUMHOUSE CUM SUBSTATION
SCALE 1:175

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF FIREWATER PUMPHOUSE CUM SUBSTATION (SHEET 1 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-009-01			DATE: 20.05.26	REV: B



PLAN AT EL(+) 12.13m
SCALE 1:175

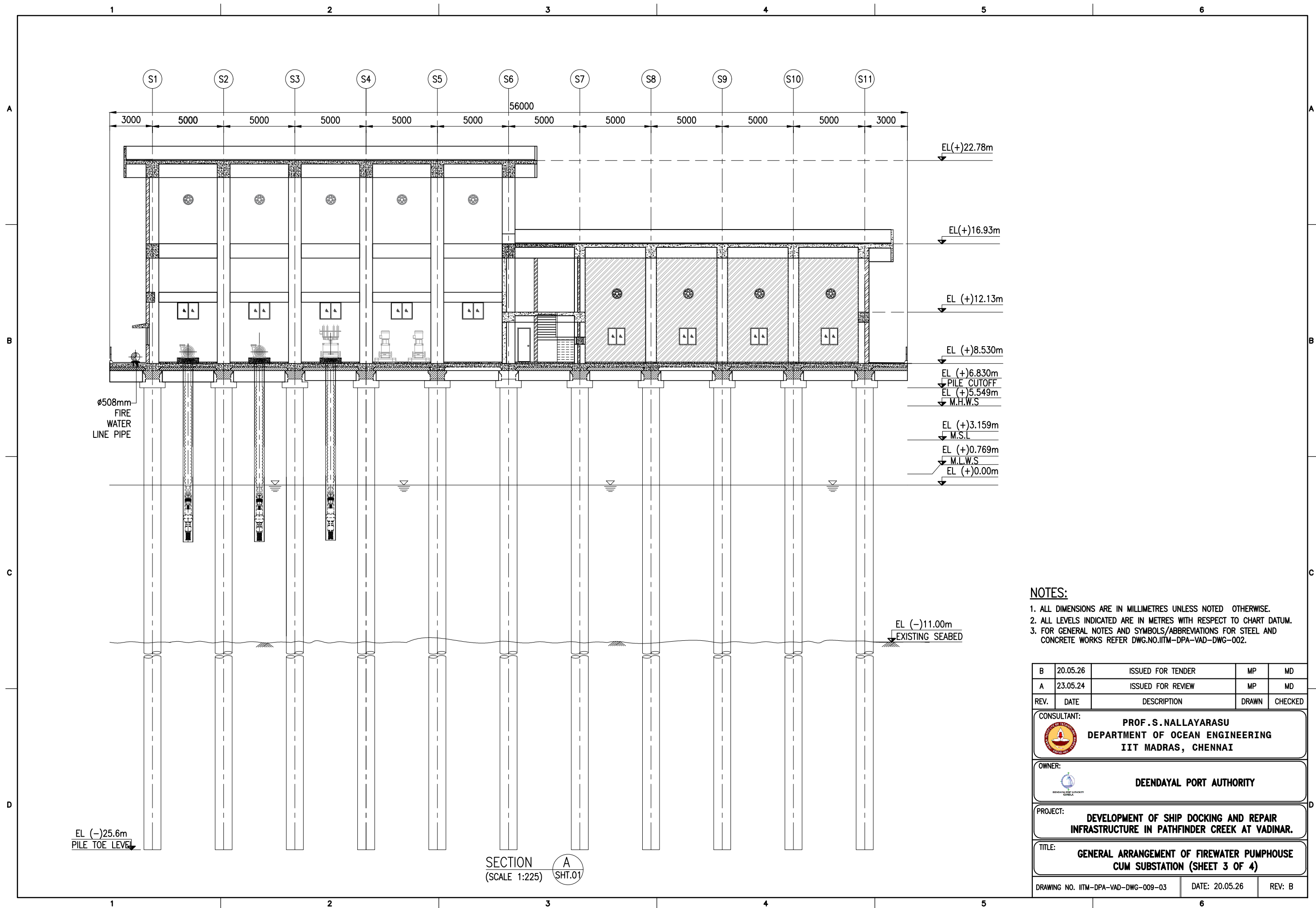
DOOR & WINDOW SCHEDULE:

S.NO	DESCRIPTION	SIZE(mm)	NOS	SPECIFICATION	
				FRAME	PANEL
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2	DOOR-D2	750x2100	2	WOODEN	WOODEN
3	WINDOW-W1	1200x1200	2	ANODIZED ALUMINUM	GLASS
4	VENTILATOR-V	900x600	2	ANODIZED ALUMINUM	GLASS

NOTES:

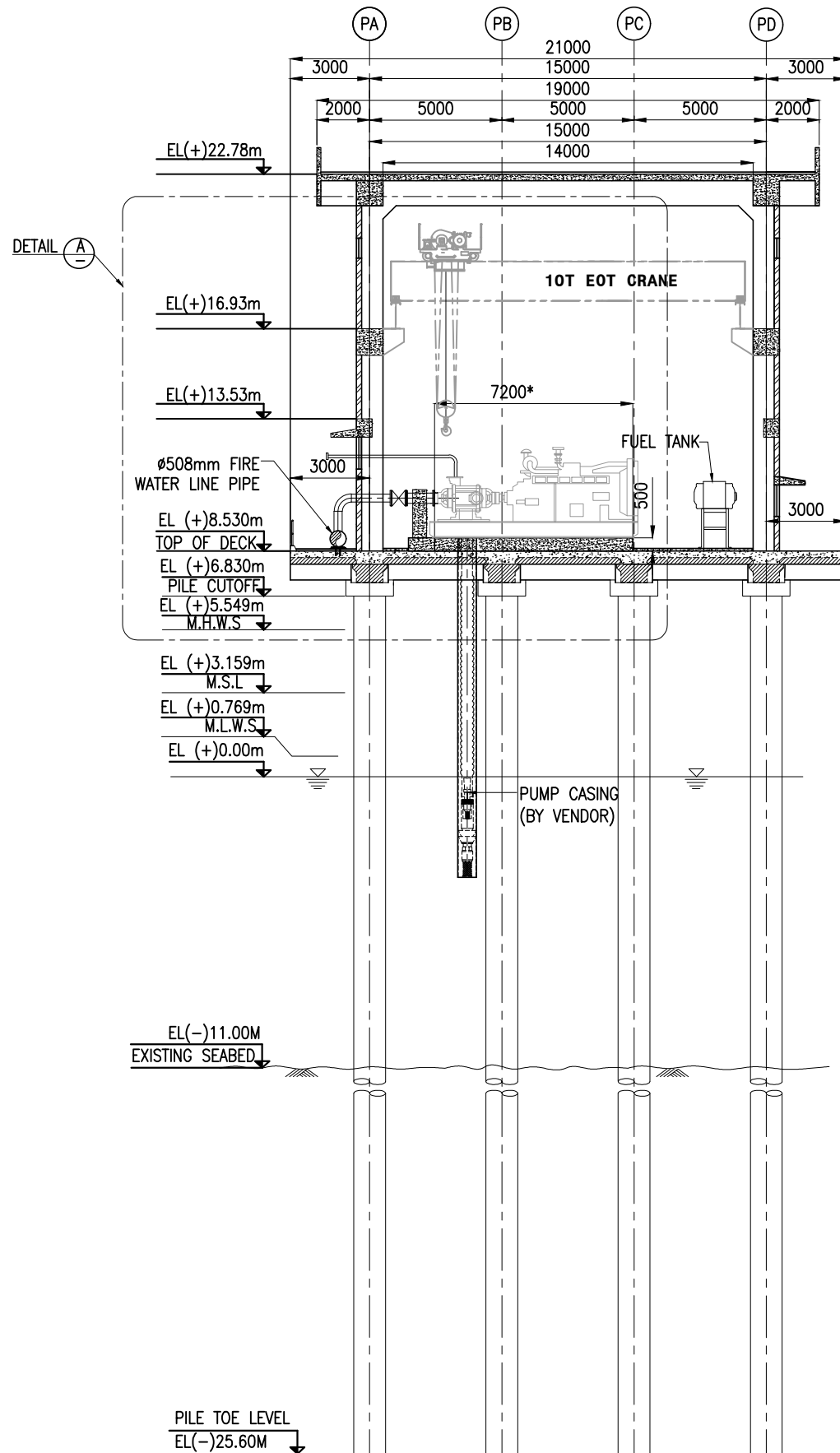
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

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CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF FIREWATER PUMPHOUSE CUM SUBSTATION (SHEET 2 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-009-02			DATE: 20.05.26	REV: B

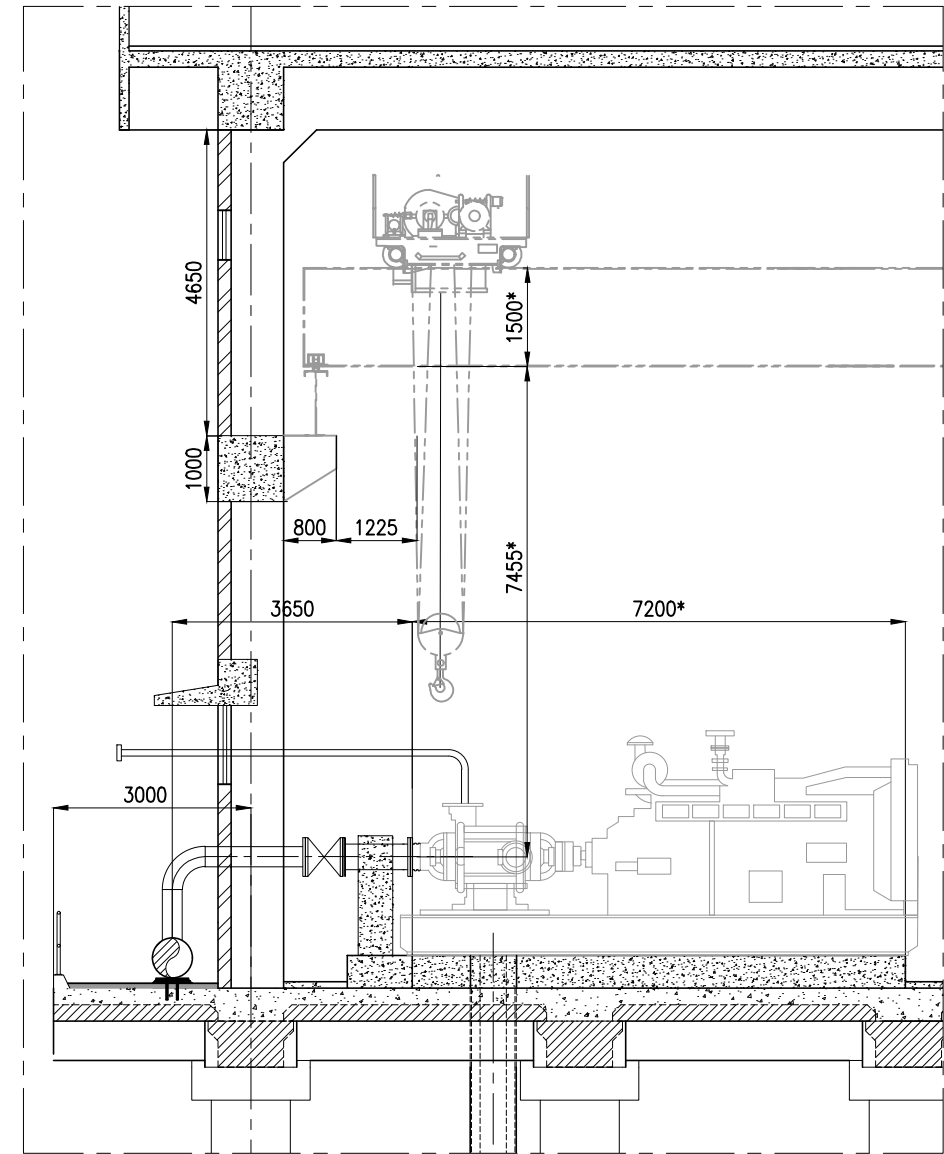


- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF FIREWATER PUMPHOUSE CUM SUBSTATION (SHEET 3 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-009-03			DATE: 20.05.26	REV: B





SECTION B
(SCALE 1:225) SHT.01 & 02

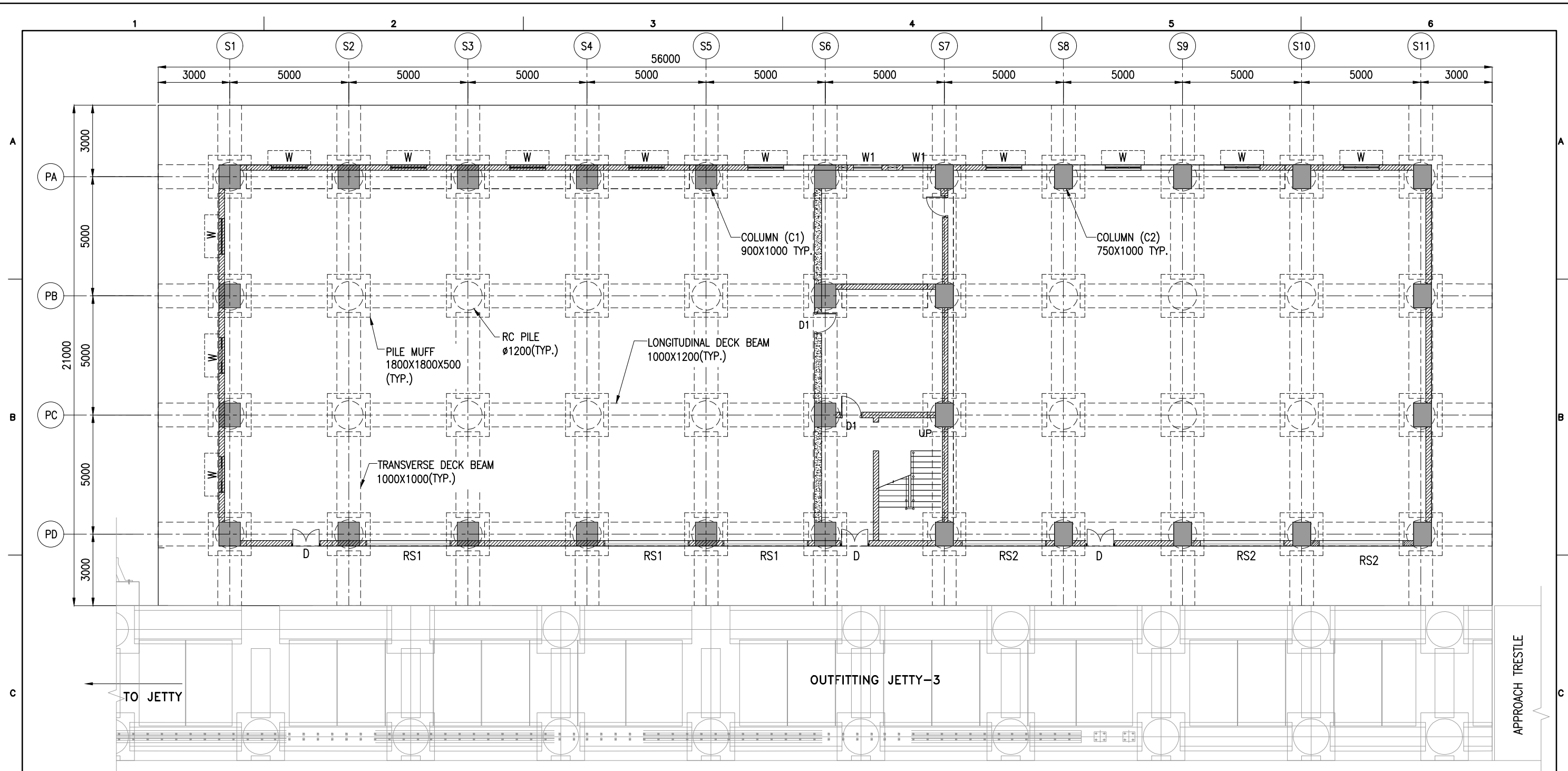


DETAIL A
(SCALE 1:90)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
4. *DIMENSION ARE TENTATIVE.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF FIREWATER PUMPHOUSE CUM SUBSTATION (SHEET 4 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-009-04			DATE: 20.05.26	REV: B



DOOR & WINDOW SCHEDULE:

S.NO	DESCRIPTION	SIZE(mm)	NOS	SPECIFICATION	
				FRAME	PANEL
1	DOOR-D	1500x2100	3	WOODEN	WOODEN
2	DOOR-D1	900x2100	3	WOODEN	WOODEN
3	WINDOW-W	1500x1200	12	ANODIZED ALUMININUM	GLASS
4	WINDOW-W1	1200x1200	2	ANODIZED ALUMININUM	GLASS
5	EXHAUST	Ø400	24	-	-
6	ROLLING SHUTTER -RS1	3500x4300	3	-	-
6	ROLLING SHUTTER -RS2	3500x2900	3	-	-

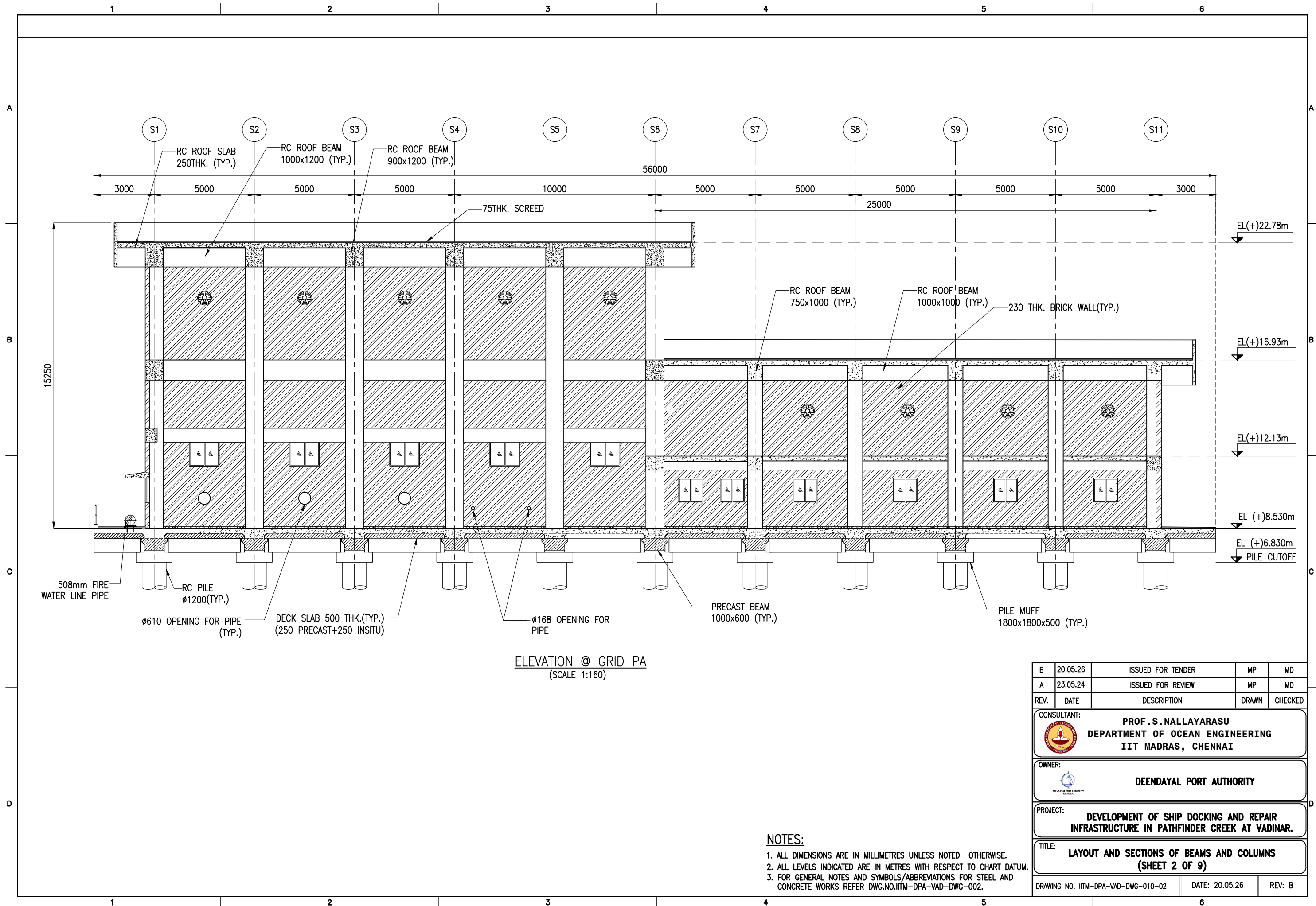
WALL & FLOOR FINISH SCHEDULE

S.NO	DESCRIPTION	FINISH
1	EXTERNAL WALLS	TEXTURED FLAKE TYPE WALL COATING
2	INTERNAL WALLS	PREMIUM PLASTIC EMULSION PAINT
3	FLOOR	ALL ROOMS FLOOR FINISH WITH CEMENT PLASTER
4	ROOF	ALL HEAT RESISTANCE TERRACE TILES

PLAN AT EL(+) 8.53m
SCALE 1:160

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
 - FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

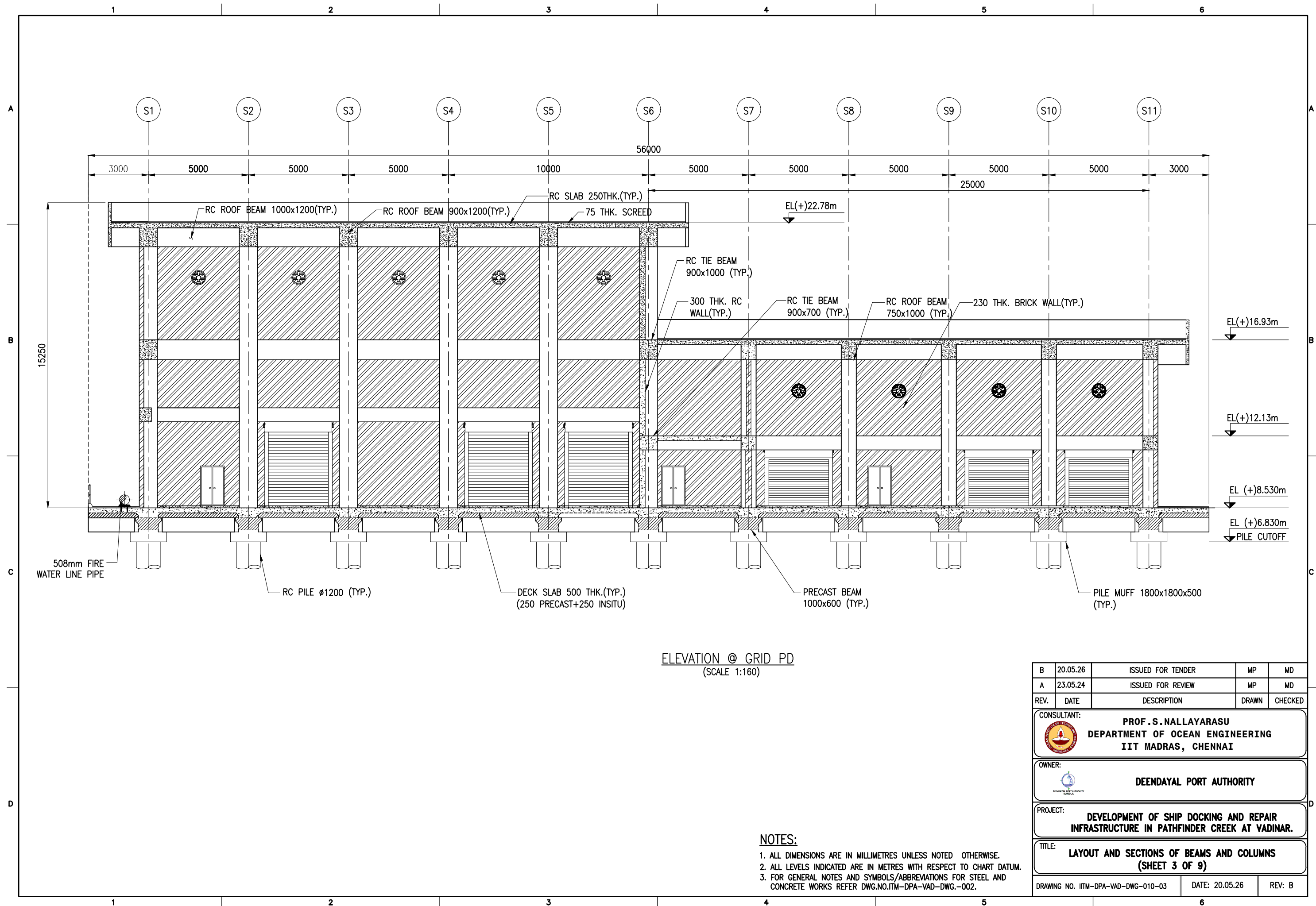
A	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 1 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-01			DATE: 20.05.26	REV: B



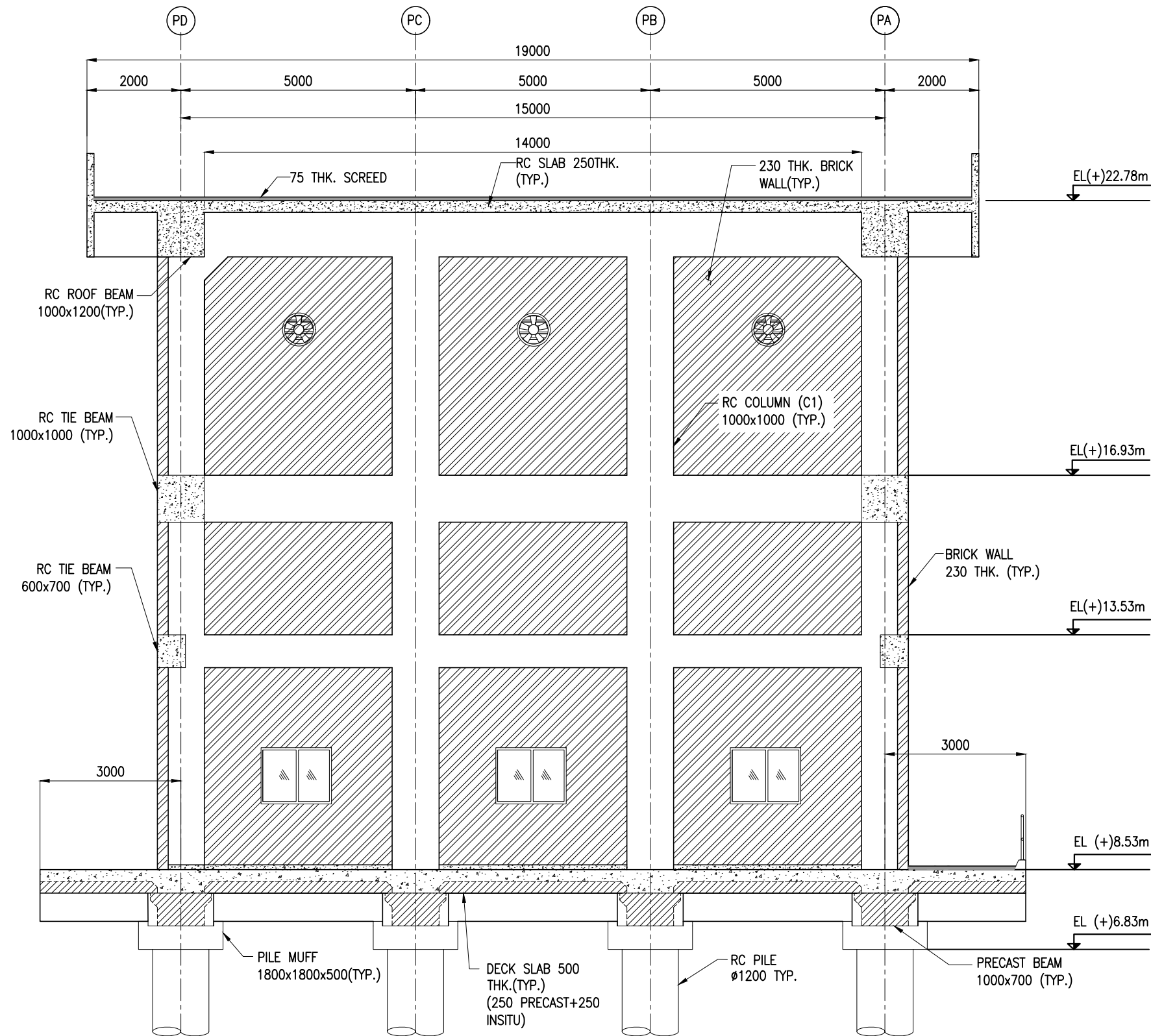
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 2 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-02			DATE: 20.05.26	REV: B



B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 3 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-03			DATE: 20.05.26	REV: B

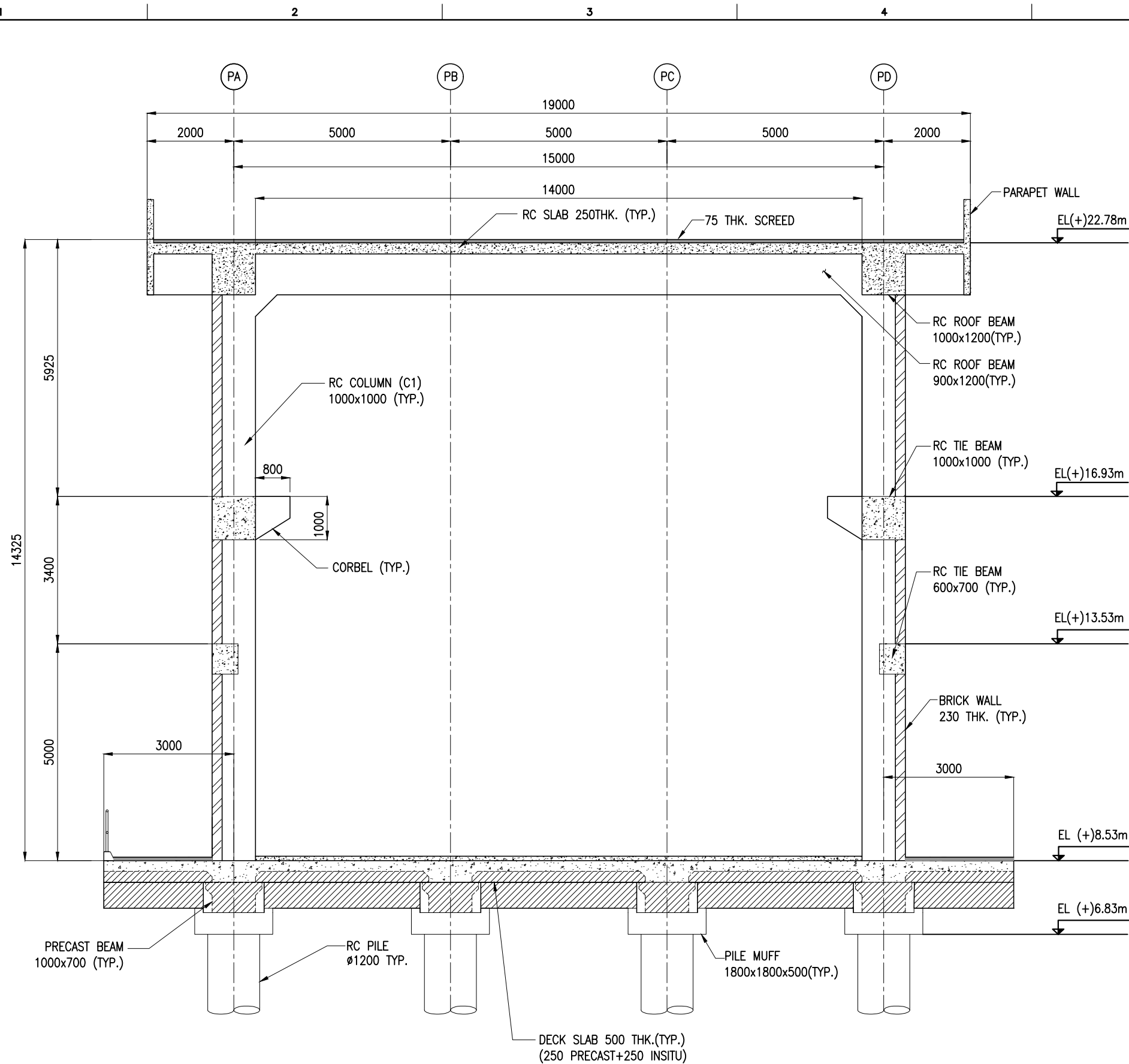


ELEVATION @ GRID S1
(SCALE 1:100)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 4 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-04		DATE: 20.05.26		REV: B

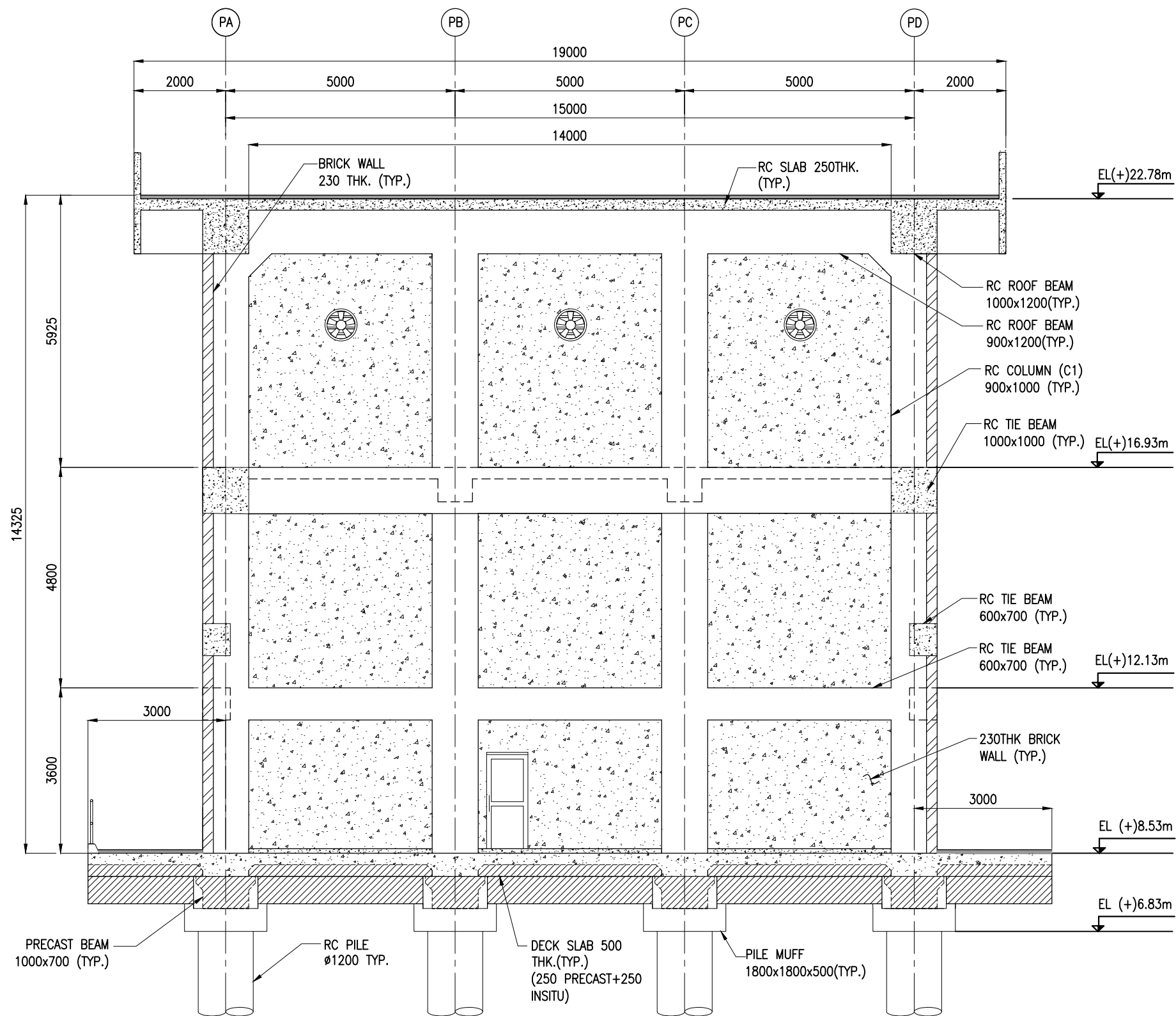


ELEVATION @ GRID S2 TO S5
(SCALE 1:100)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 5 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-05			DATE: 20.05.26	REV: B

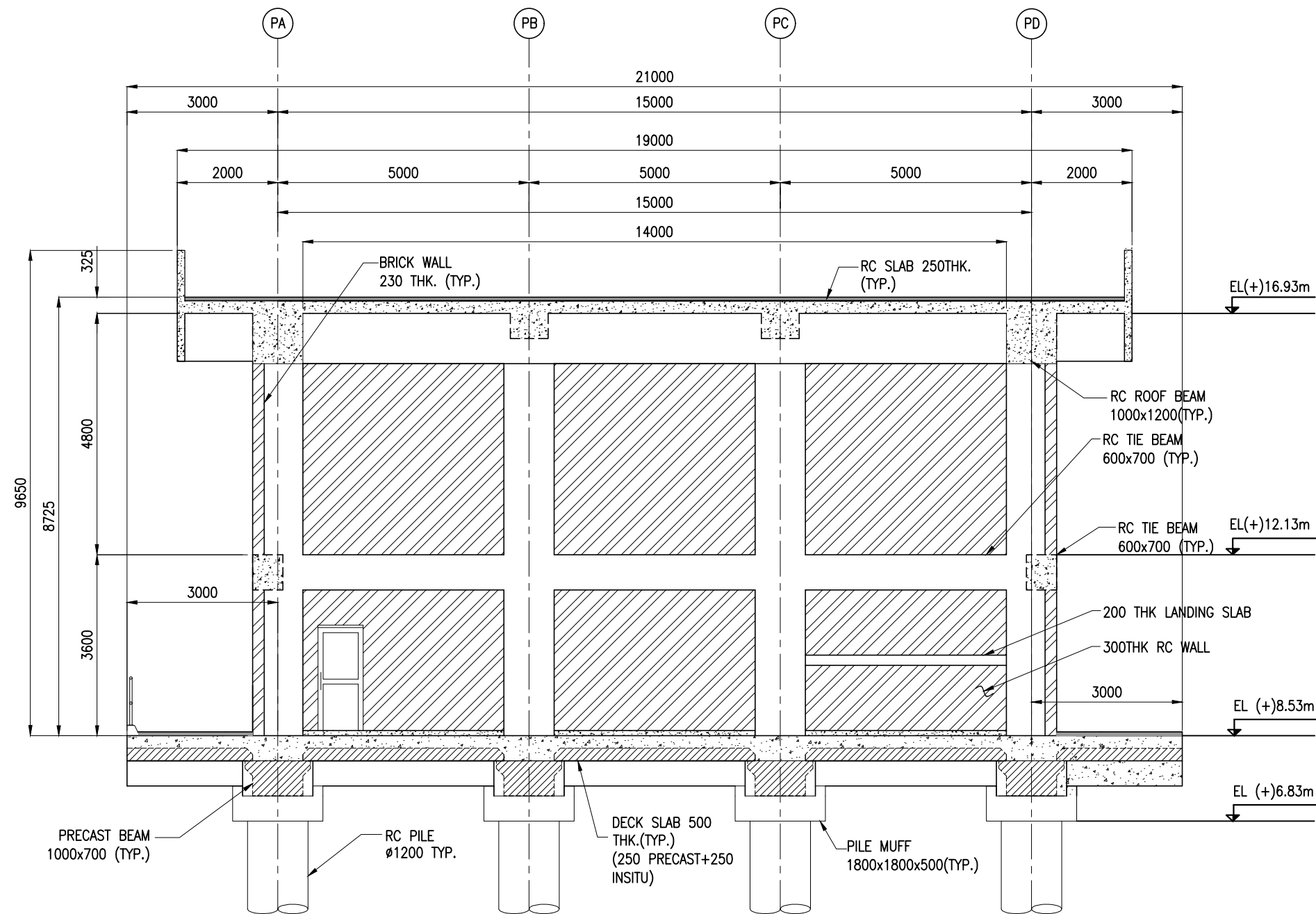


ELEVATION @ GRID S6
(SCALE 1:100)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU  DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 6 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-06		DATE: 20.05.26		REV: B

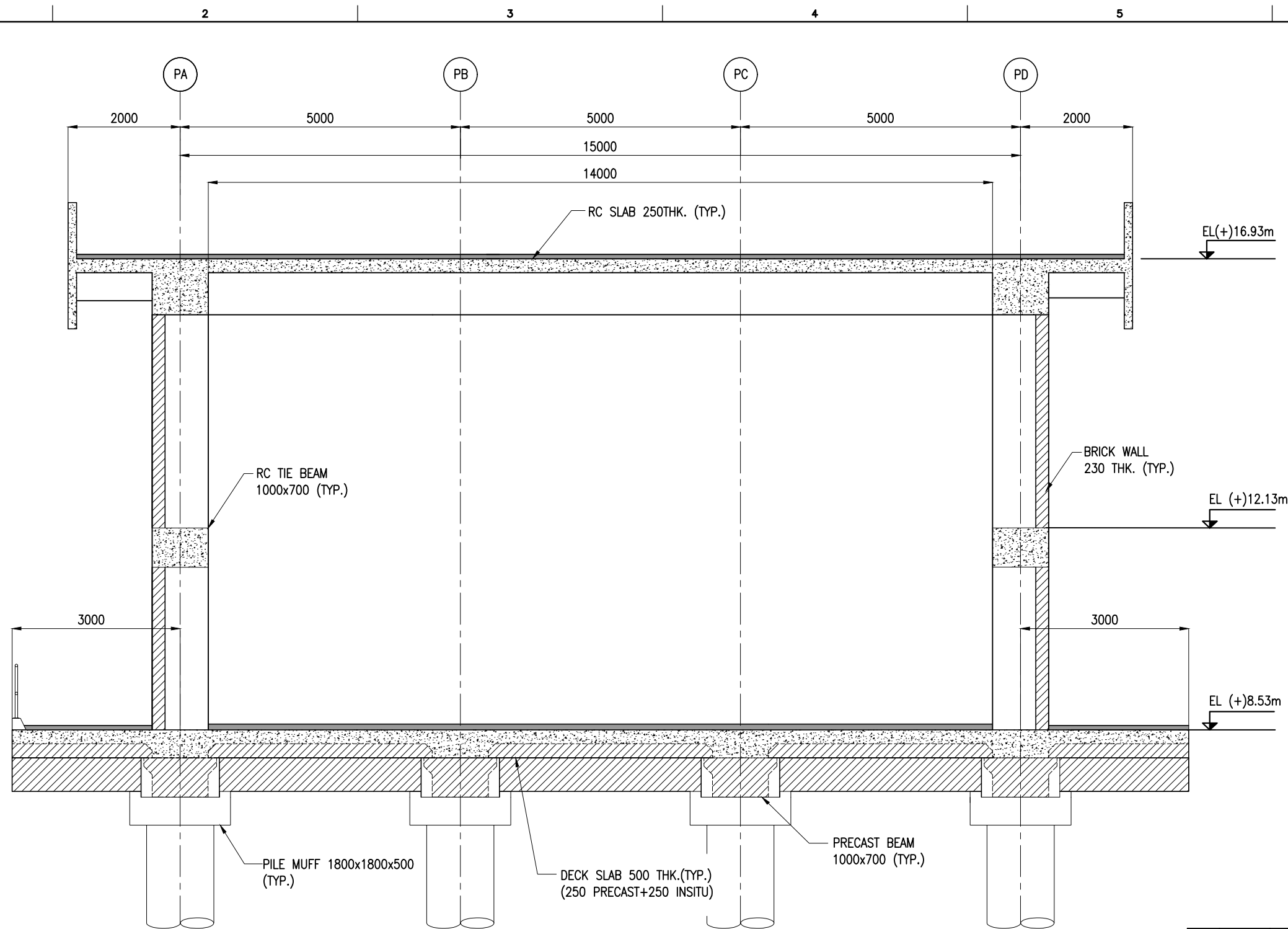


ELEVATION @ GRID S7
(SCALE 1:100)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 7 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-07			DATE: 20.05.26	REV: B

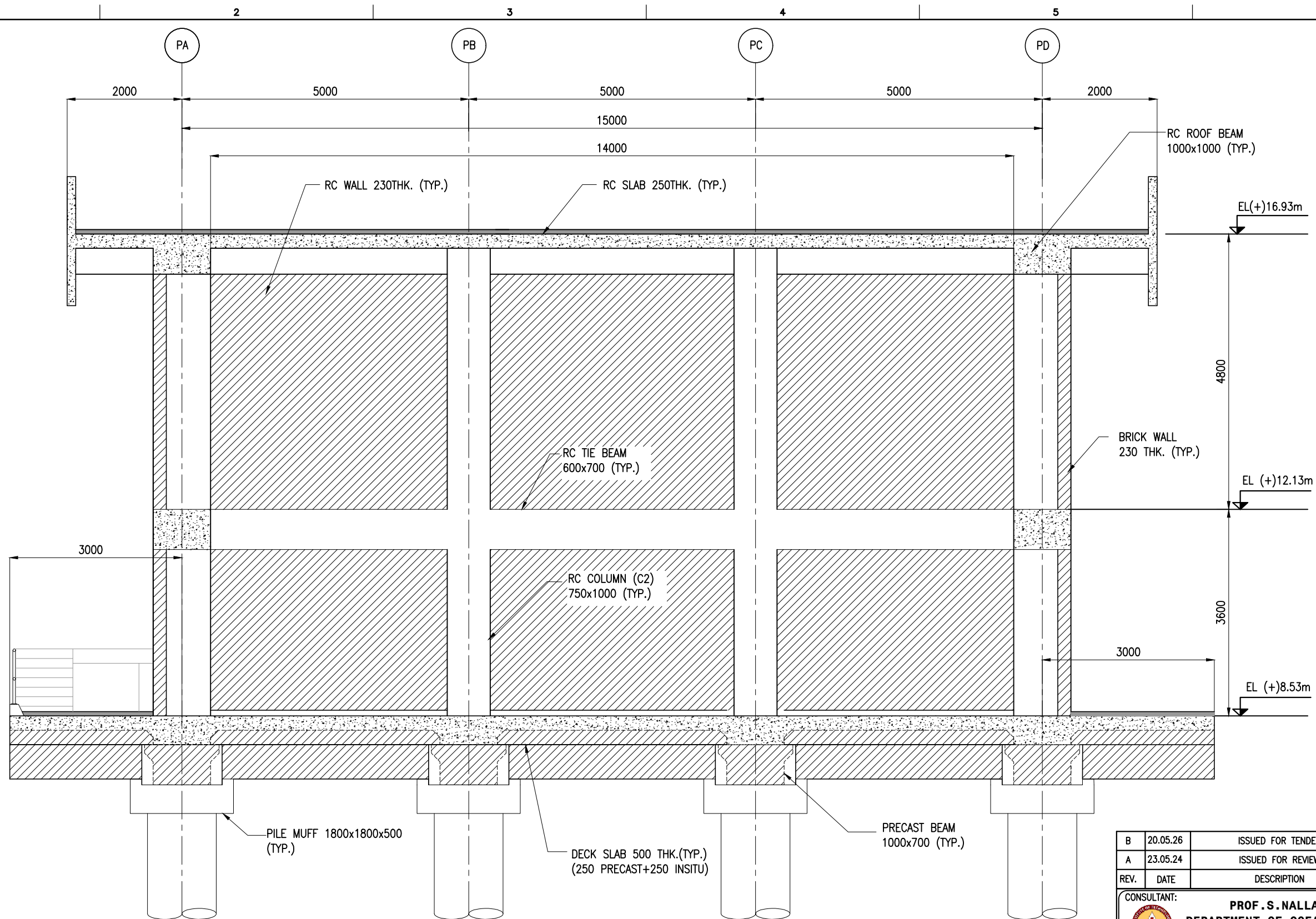


ELEVATION @ GRID S8 TO S11
(SCALE 1:80)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 8 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-08			DATE: 20.05.26	REV: B

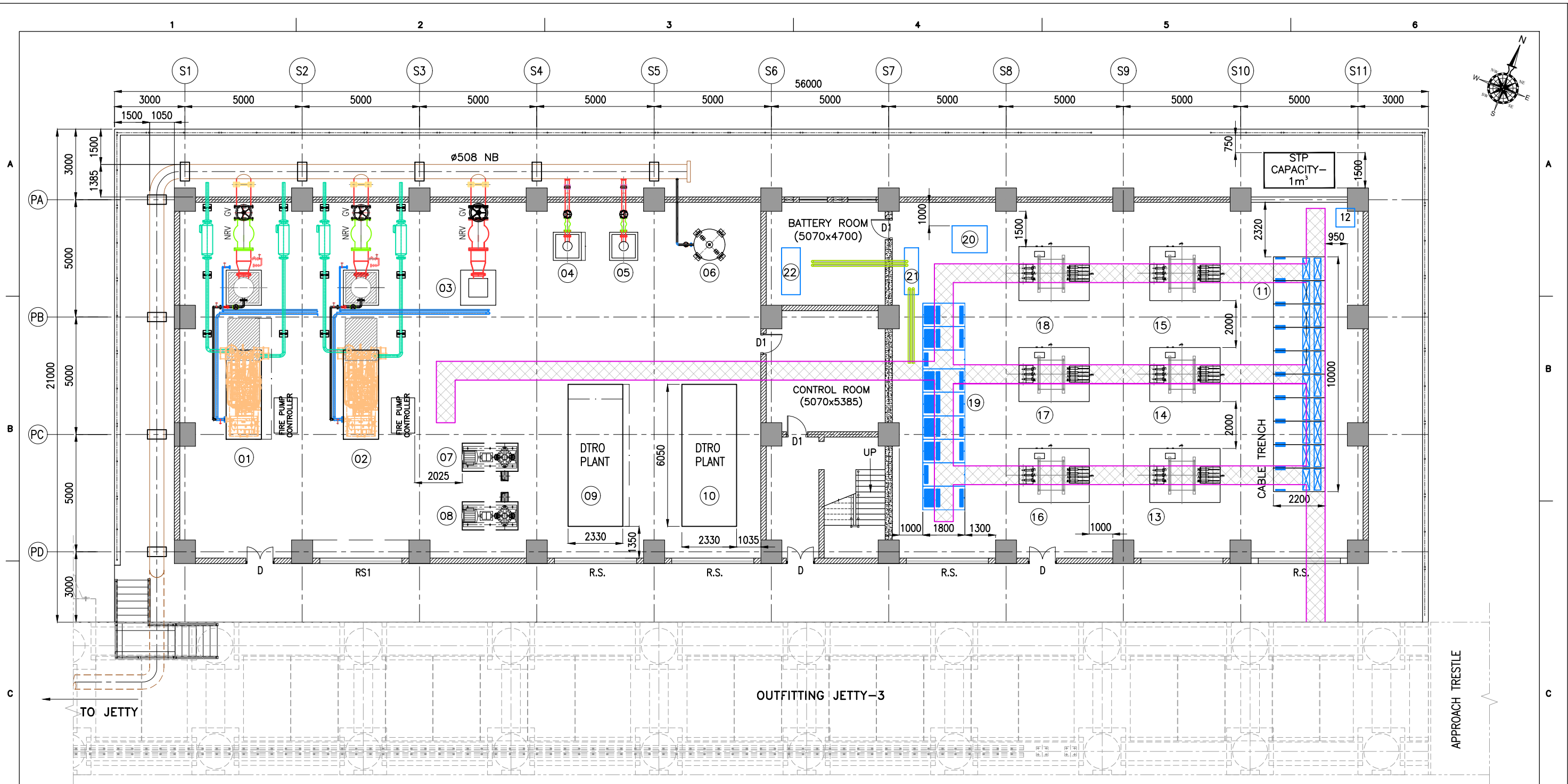


ELEVATION @ GRID S11
(SCALE 1:70)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND SECTIONS OF BEAMS AND COLUMNS (SHEET 9 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-010-09			DATE: 20.05.26	REV: B



EQUIPMENT LAYOUT
(SCALE 1:160)



EQUIPMENT LIST:

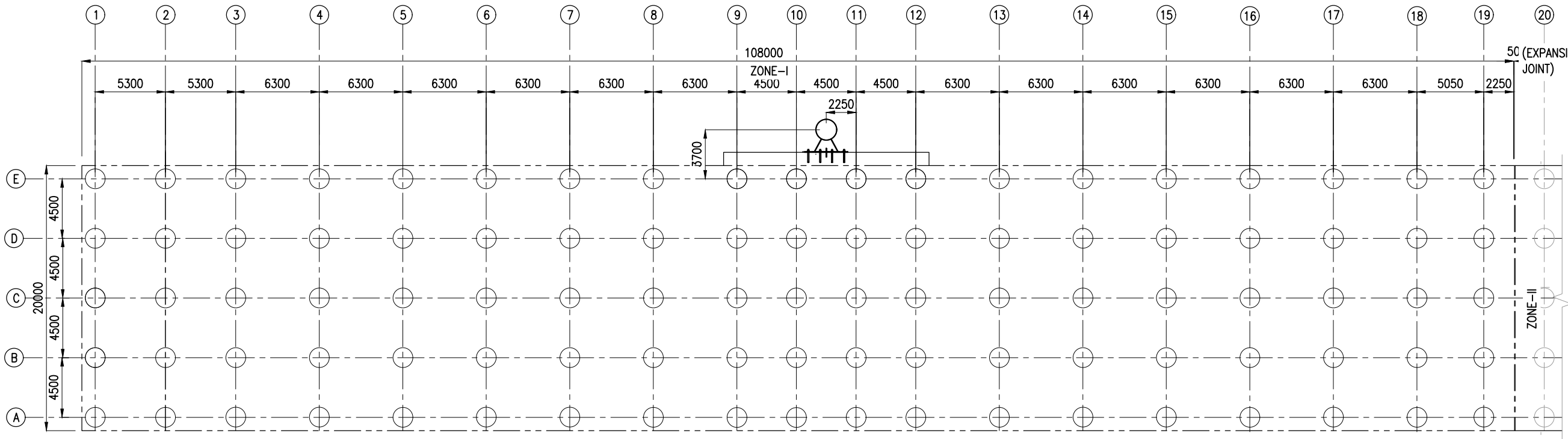
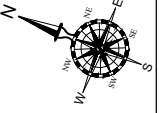
SL.NO	DESCRIPTION	CAPACITY	NOS
01&02	FIRE WATER MAIN PUMP DIESEL ENGINE DRIVEN	1000m ³ /hr @150 MWC	2
03	FIRE WATER PUMP MOTOR DRIVEN	1000m ³ /hr @150 MWC	1
04&05	FIRE WATER JOCKEY PUMP MOTOR DRIVEN	50m ³ /hr @150 MWC	2
06	HP TANK	3000L	1
07&08	PUMP FOR DTRO	600m ³ /hr	2
09&10	DTRO PLANT	0.6MLD	2

SL.NO	DESCRIPTION	CAPACITY	NOS
11	11kV SWITCH GEAR	—	1
12	CAP PANEL	—	1
13&16	11kV/0.460kV TRANSFORMER	—	2
14&17	11kV/0.433kV TRANSFORMER	—	2
15&18	11kV/0.380V TRANSFORMER	—	2
19	FREQUENCY CONVERTOR	—	1
20	3 LT SW/FREQUENCY CONVERTOR	—	1
21	DCDB WITH CHARGER	—	1
22	BATTERY	—	1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. ALL DIMENSIONS OF EQUIPMENT ARE PRELIMINARY AND SHALL BE UPDATED BASED ON VENDOR DATA.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
FIRE WATER PUMP HOUSE CUM SUBSTATION EQUIPMENT LAYOUT				
DRAWING NO. IITM-DPA-VAD-DWG-011			DATE: 20.05.26	REV: B





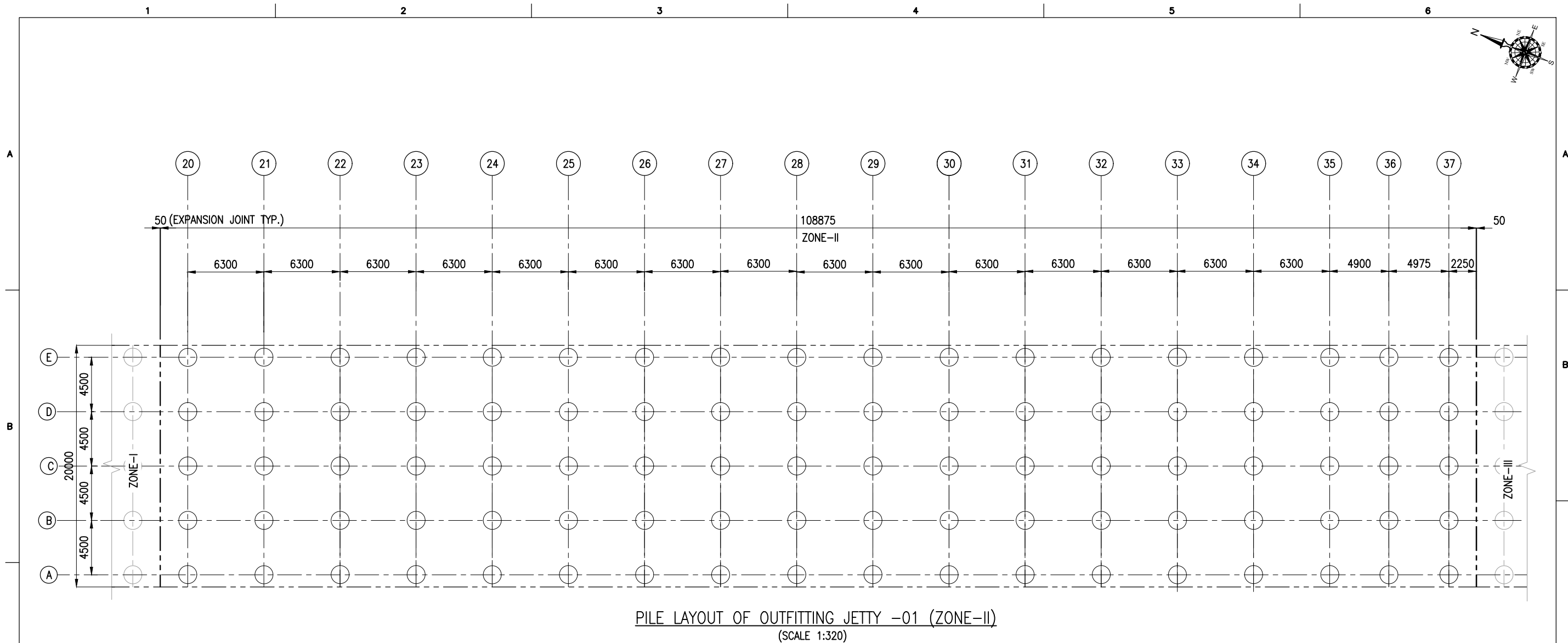
PILE LAYOUT OF OUTFITTING JETTY -01 (ZONE-I)
(SCALE 1:320)

PILE SCHEDULE FOR OUTFITTING JETTY - 01 (ZONE-I)

GRID		PILE ϕ (mm)	NO.OF PILES
A TO E	1 TO 19	1500	95
GUIDE PIN PILE		1524	1
TOTAL NUMBER OF PILES			96

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-01			DATE: 20.05.26	REV: B

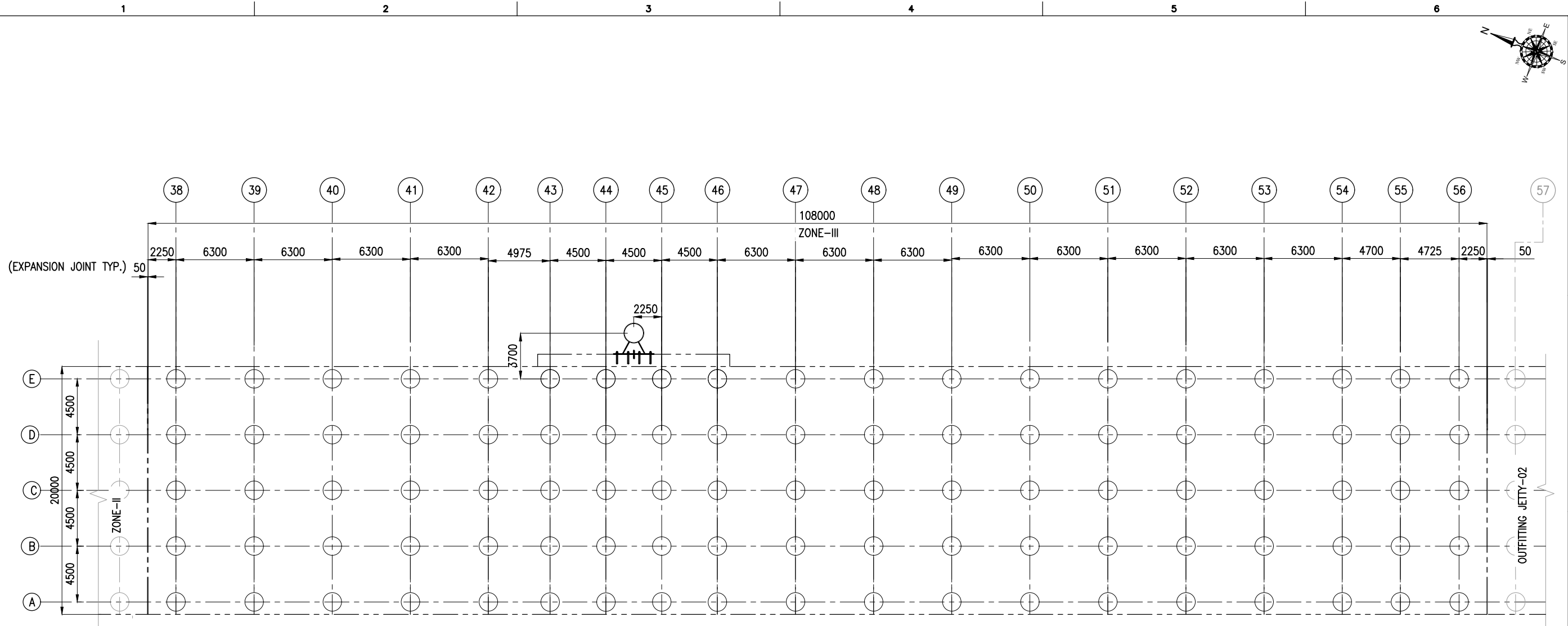


PILE SCHEDULE FOR OUTFITTING JETTY - 01 (ZONE-II)

GRID		PILE ϕ (mm)	NO.OF PILES
A TO E	20 TO 37	1500	90

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-02			DATE: 20.05.26	REV: B





PILE LAYOUT OF OUTFITTING JETTY -01 (ZONE-III)
(SCALE 1:320)

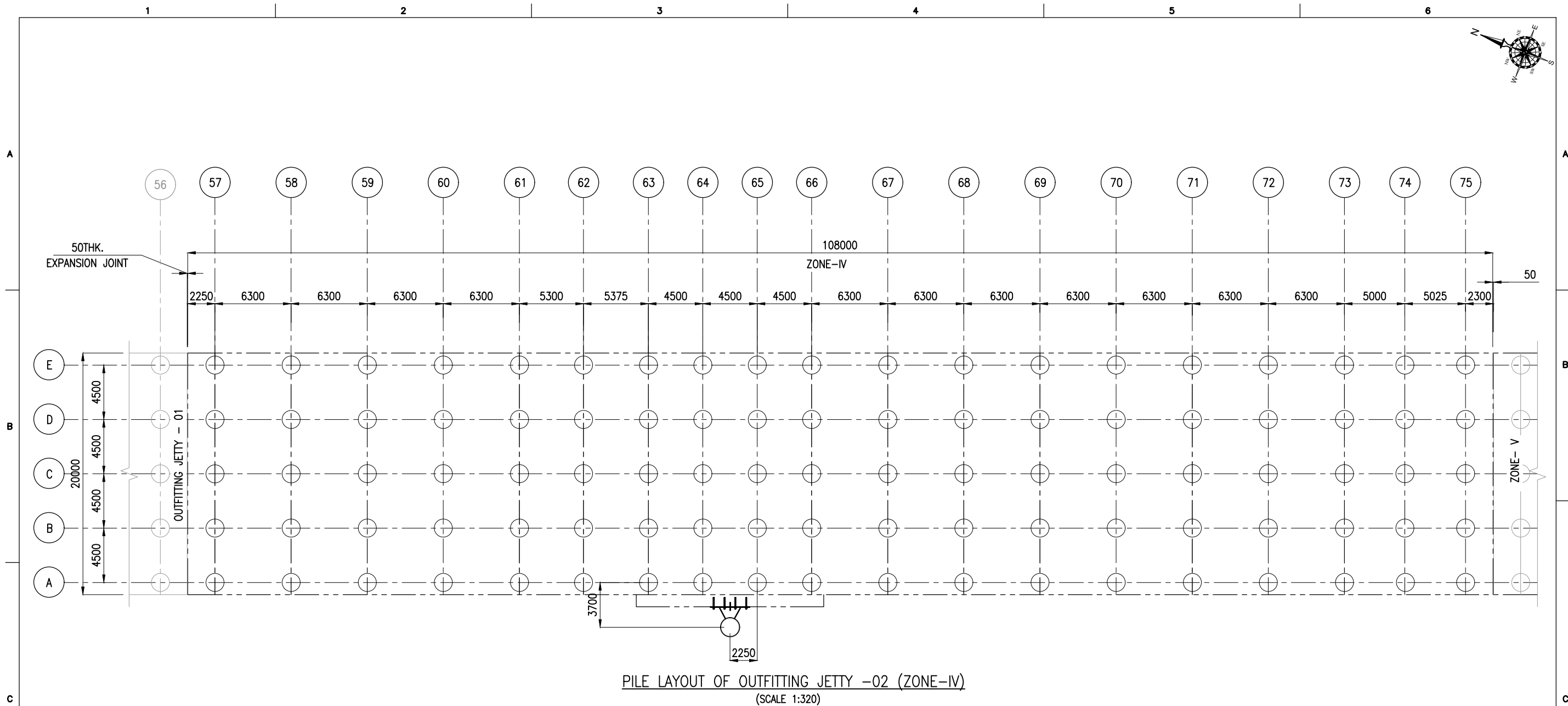
PILE SCHEDULE FOR OUTFITTING JETTY - 01 (ZONE-III)

GRID		PILE ϕ (mm)	NO.OF PILES
A TO E	38 TO 56	1500	95
GUIDE PIN PILE		1524	1
TOTAL NUMBER OF PILES			96

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 3 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-03			DATE: 20.05.26	REV: B





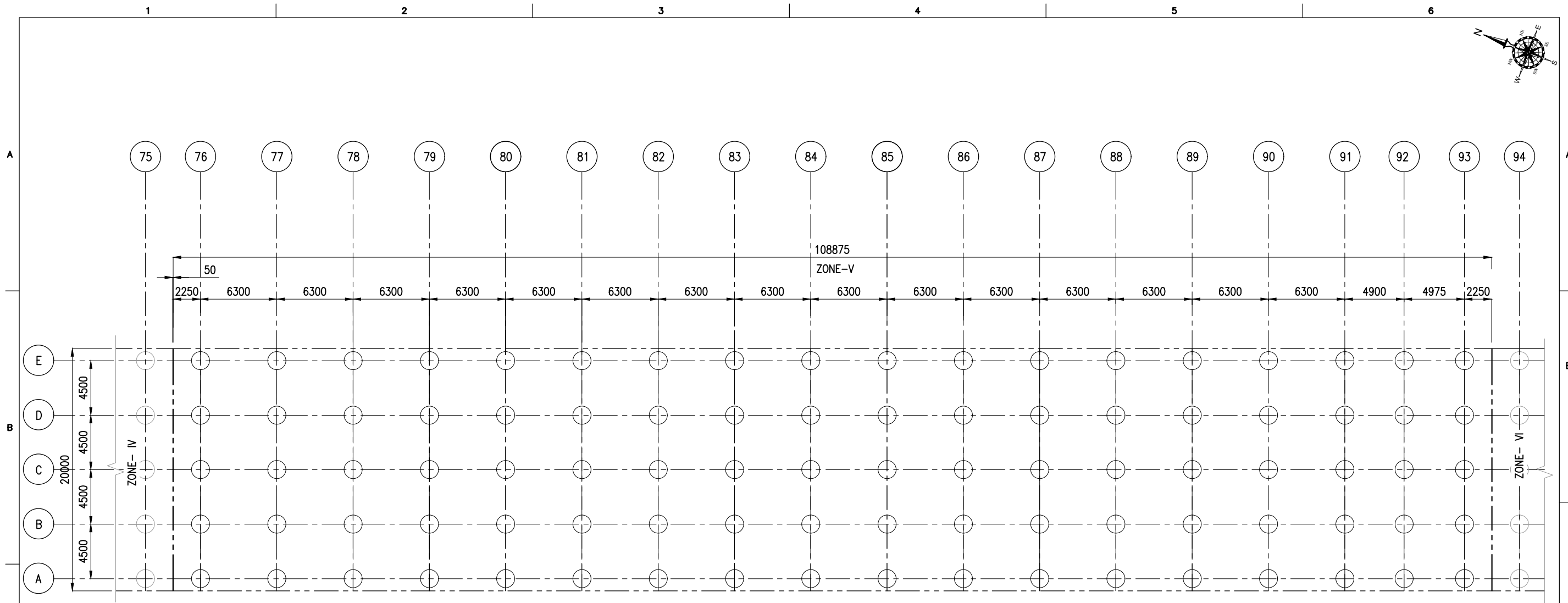
PILE SCHEDULE FOR OUTFITTING JETTY - 01 (ZONE-IV)

GRID		PILE ϕ (mm)	NO.OF PILES
A TO E	57 TO 75	1500	95
GUIDE PIN PILE		1524	1
TOTAL NUMBER OF PILES			96

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 4 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-04			DATE: 20.05.26	REV: B





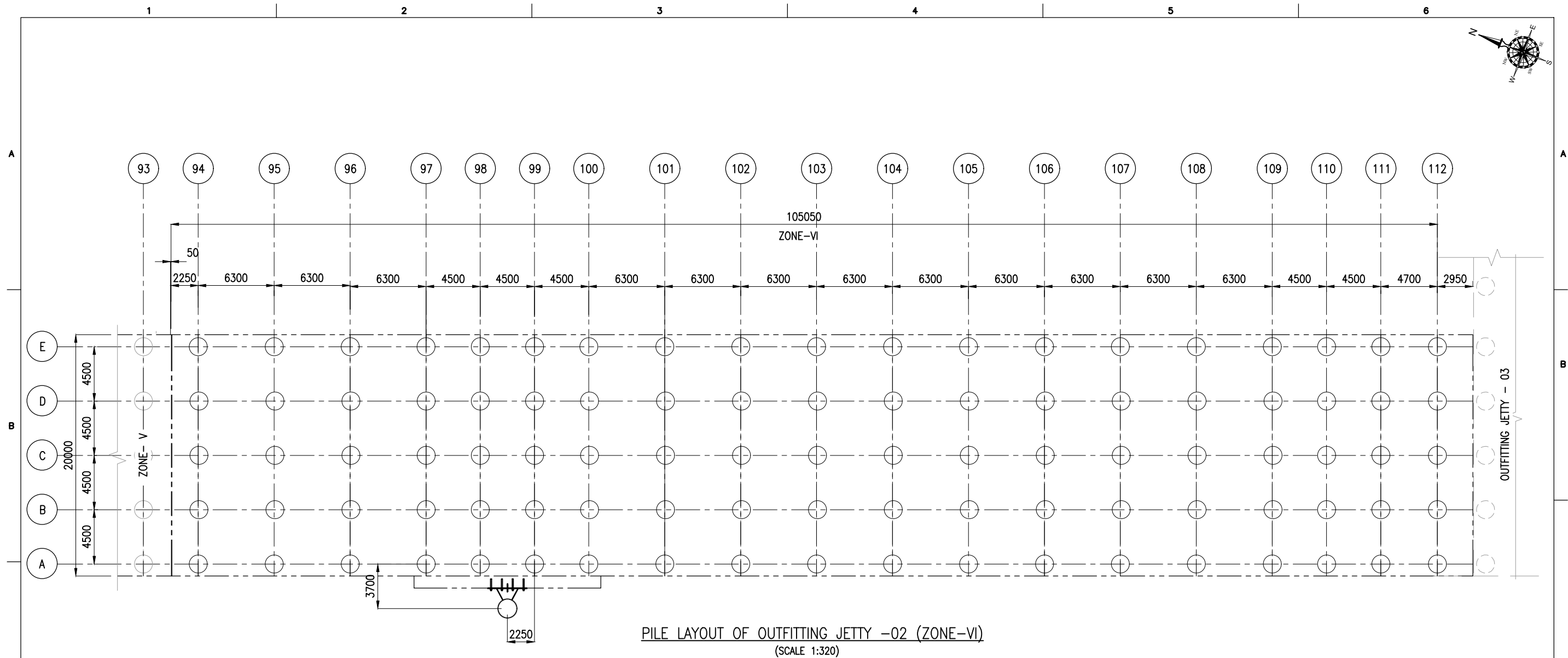
PILE LAYOUT OF OUTFITTING JETTY -02 (ZONE-V)
(SCALE 1:320)

PILE SCHEDULE FOR OUTFITTING JETTY - 01 (ZONE-V)

GRID		PILE ϕ (mm)	NO.OF PILES
A TO E	76 TO 93	1500	90

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 5 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-05			DATE: 20.05.26	REV: B

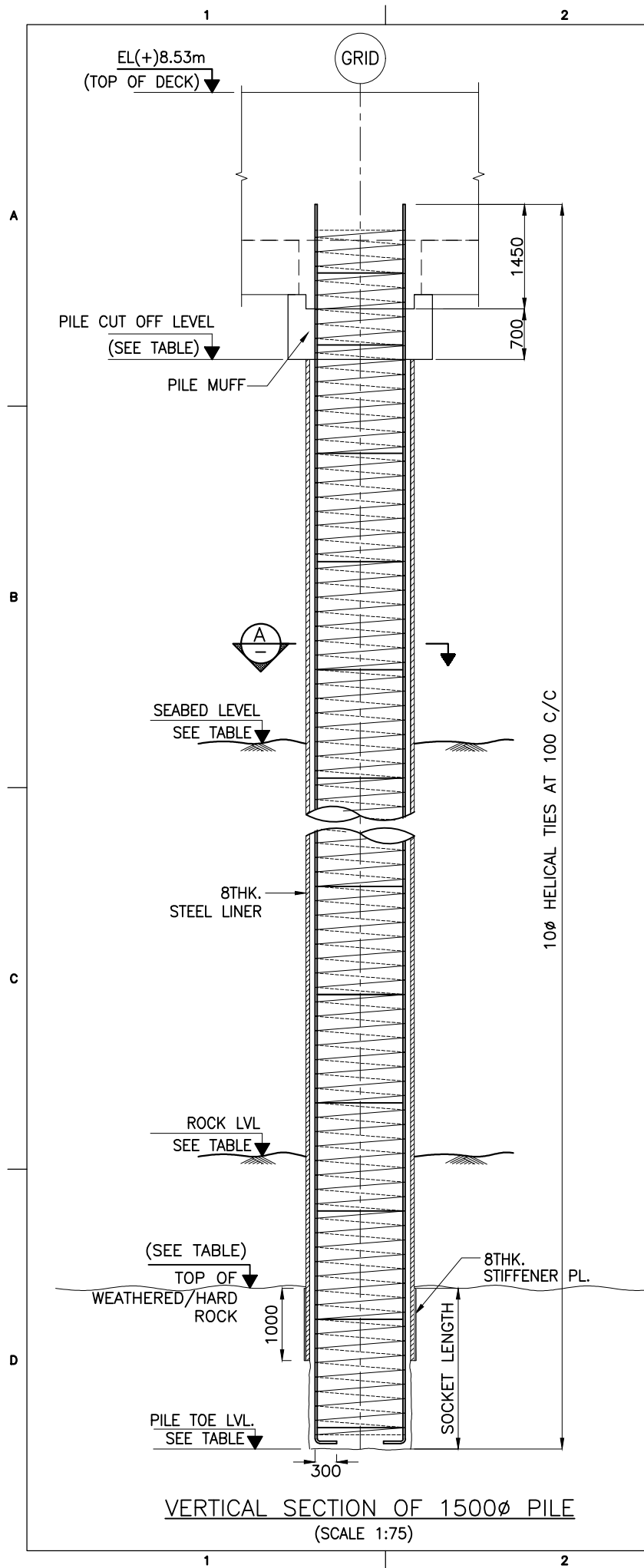


PILE SCHEDULE FOR OUTFITTING JETTY - 01 (ZONE-VI)

GRID		PILE ϕ (mm)	NO.OF PILES
A TO E	94 TO 112	1500	95
GUIDE PIN PILE		1524	1
TOTAL NUMBER OF PILES			96

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

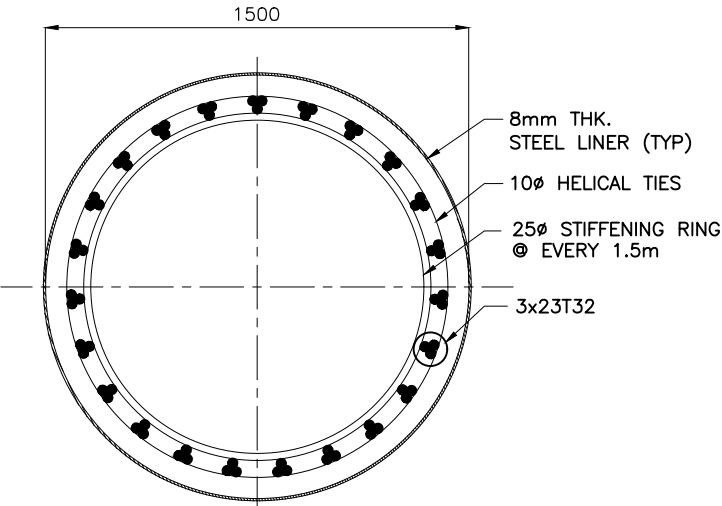
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 6 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-06			DATE: 20.05.26	REV: B



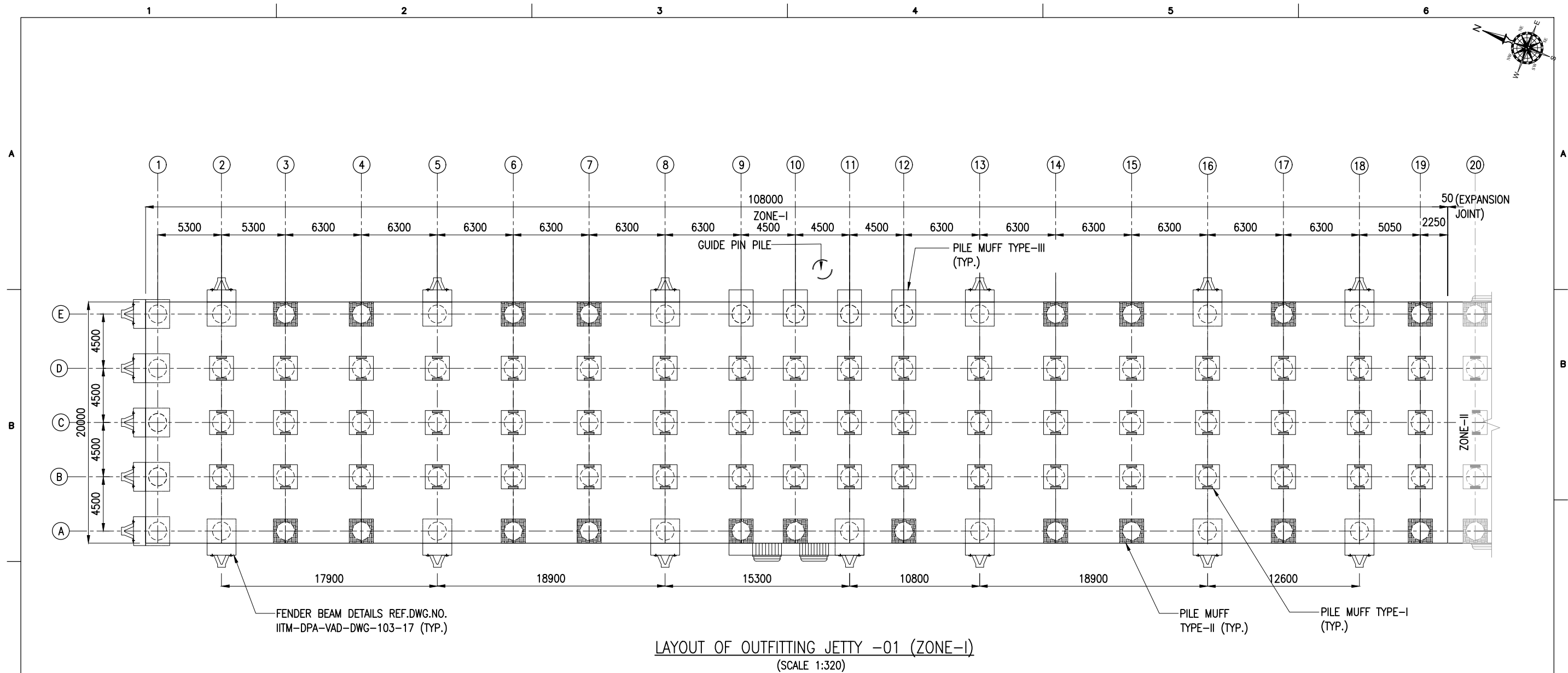
PILE SCHEDULE:

S.NO	GRID		PILE Ø (mm)	NO. OF PILES	SEA BED LVL. (m)	ROCK LVL.(m)	BOTTOM OF LINER (m)	PILE CUT-OFF LVL. (m)	PILE TOE LVL. (m)	VERTICAL PILE WORKING LOAD (T)	HORIZONTAL PILE WORKING LOAD (T)
OUTFITTING JETTY – 1											
1	A	1 TO 56	1500	56	−18.0 TO −21.0	−27.0	−28.0	+4.00	−31.5	500	50
2	B	1 TO 56	1500	56	−18.0 TO −21.0	−27.0	−28.0	+4.83	−31.5	500	50
3	C	1 TO 56	1500	56	−18.0 TO −21.0	−27.0	−28.0	+4.83	−31.5	500	50
4	D	1 TO 56	1500	56	−18.0 TO −21.0	−27.0	−28.0	+4.83	−31.5	500	50
5	E	1 TO 56	1500	56	−18.0 TO −21.0	−27.0	−28.0	+4.00	−31.5	500	50
OUTFITTING JETTY – 2											
6	A	57 TO 112	1500	56	−10.0 TO −18.0	−25.0	−26.0	+4.00	−29.5	500	50
7	B	57 TO 112	1500	56	−10.0 TO −18.0	−25.0	−26.0	+4.83	−29.5	500	50
8	C	57 TO 112	1500	56	−10.0 TO −18.0	−25.0	−26.0	+4.83	−29.5	500	50
9	D	57 TO 112	1500	56	−10.0 TO −18.0	−25.0	−26.0	+4.83	−29.5	500	50
10	E	57 TO 112	1500	56	−10.0 TO −18.0	−25.0	−26.0	+4.00	−29.5	500	50
		TOTAL		560							

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
 - FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
 - BARS TO BE BENT AFTER THE PLACING OF PILEMUFF AND PRECAST BEAM.
 - LINER SHALL BE DRIVEN TO REFUSAL.
 - THE SEABED AND ROCK LEVELS ARE BASED ON EXISTING GEOTECHNICAL DATA. THE ACTUAL ELEVATIONS SHALL BE ESTABLISHED BY SITE SPECIFIC BORE HOLE INVESTIGATION OR DURING PILING.
 - PILE SHALL BE SOCKETED INTO HARD/WEATHERED ROCK. THE MINIMUM SOCKET LENGTH SHALL BE AS FOLLOWS:
 - 6 TIMES THE DIAMETER IN TO SOFT OR WEATHERED ROCK.
 - 3 TIMES THE DIAMETER IN TO HARD ROCK.
 - A COMBINATION OF SOFT/WEATHERED AND HARD/INTACT ROCK THE DEPTH TO BE DETERMINED BASED ON CASE TO CASE BASIS BY THE ENGINEER'S REPRESENTATIVE. THE DECISION OF ENGINEER'S REPRESENTATIVE/CONSULTANT IS FINAL.
 - THE ROCK LEVEL SHALL BE DETERMINED BASED ON THE FOLLOWING CRITERIA.
 - SPT EXCEEDING
 - INTACT/HARD ROCK – 100
 - WEATHERED/SOFT ROCK – 50
 - CHISELLING/BORING ENERGY CALCULATED AS PER IRC78.
 - INTACT/HARD ROCK – 250 Tm/m²/cm
 - WEATHERED/SOFT ROCK – 150 Tm/m²/cm
 - THE PILE TERMINATION LEVELS SHOWN IN THIS DRAWING IS APPROXIMATE AND MAY VARY DEPENDING ON HARD ROCK LEVELS.
 - STRUCTURAL STEEL FOR LINER SHALL CONFORM TO IS:2062 GRADE E250.
 - PILE SHALL BE CAST 600mm HIGHER THAN THE PILE CUT-OFF LEVEL AND OVERFLOW OF CONCRETE SHALL BE OBSERVED AND THE ADDITIONAL LENGTH OF PILE SHALL BE CUT AFTER 28 DAYS OF CASTING THE PILE.



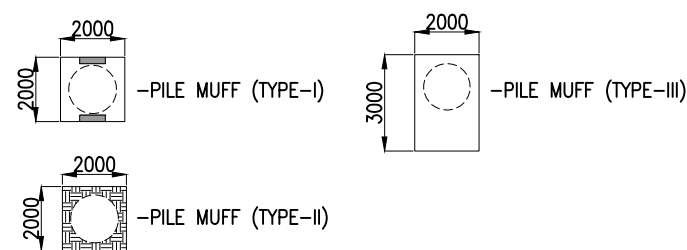
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE (SHEET 7 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-101-07		DATE: 20.05.26	REV: B	



SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	54	AT GRID B,C&D - 2 TO 19
TYPE-II	2000x2000x700	4.11	19	AT GRID A - 3,4,6,7,14,15,17& 19 AT GRID E - 3,4,6,7,9,10,12,14,15,17& 19
TYPE-III	2000x3000x700	7.61	4	AT GRID E - 9 TO 12

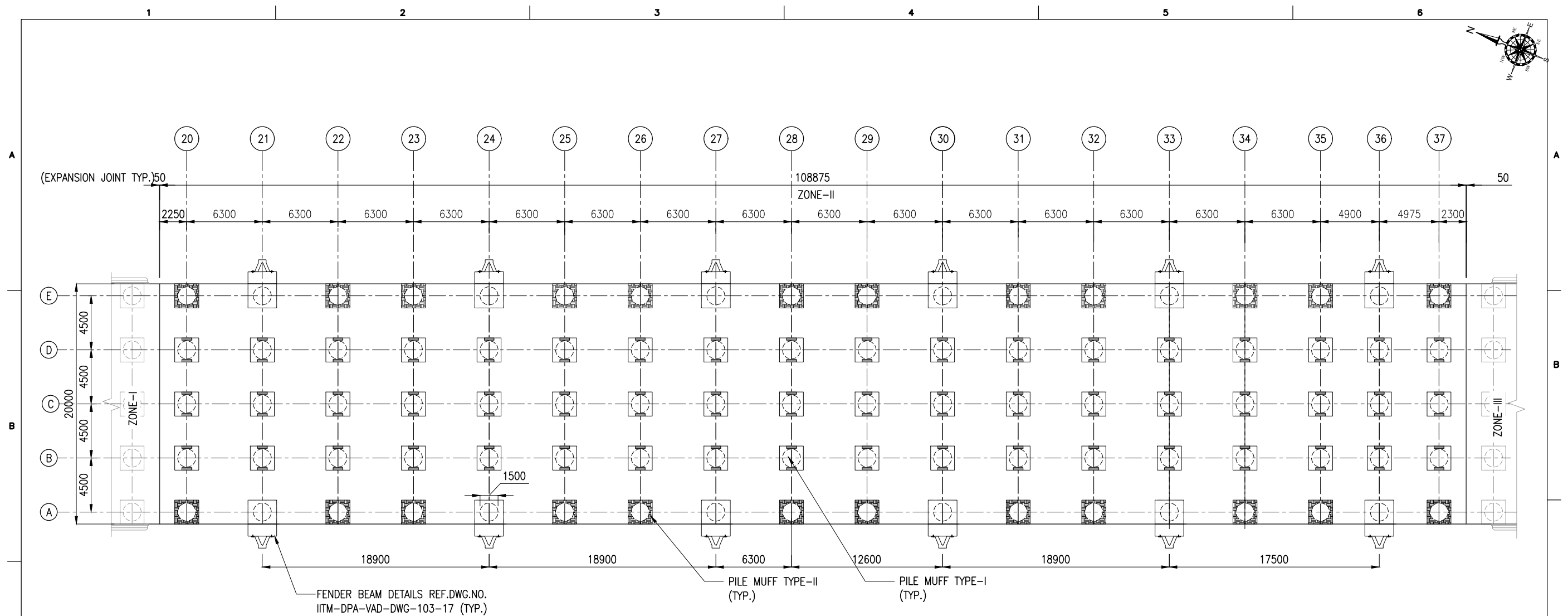
LEGEND:



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

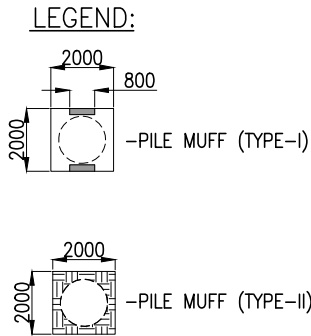
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A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 01 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-01			DATE: 20.05.26	REV: B



LAYOUT OF OUTFITTING JETTY -01 (ZONE-II)
(SCALE 1:320)

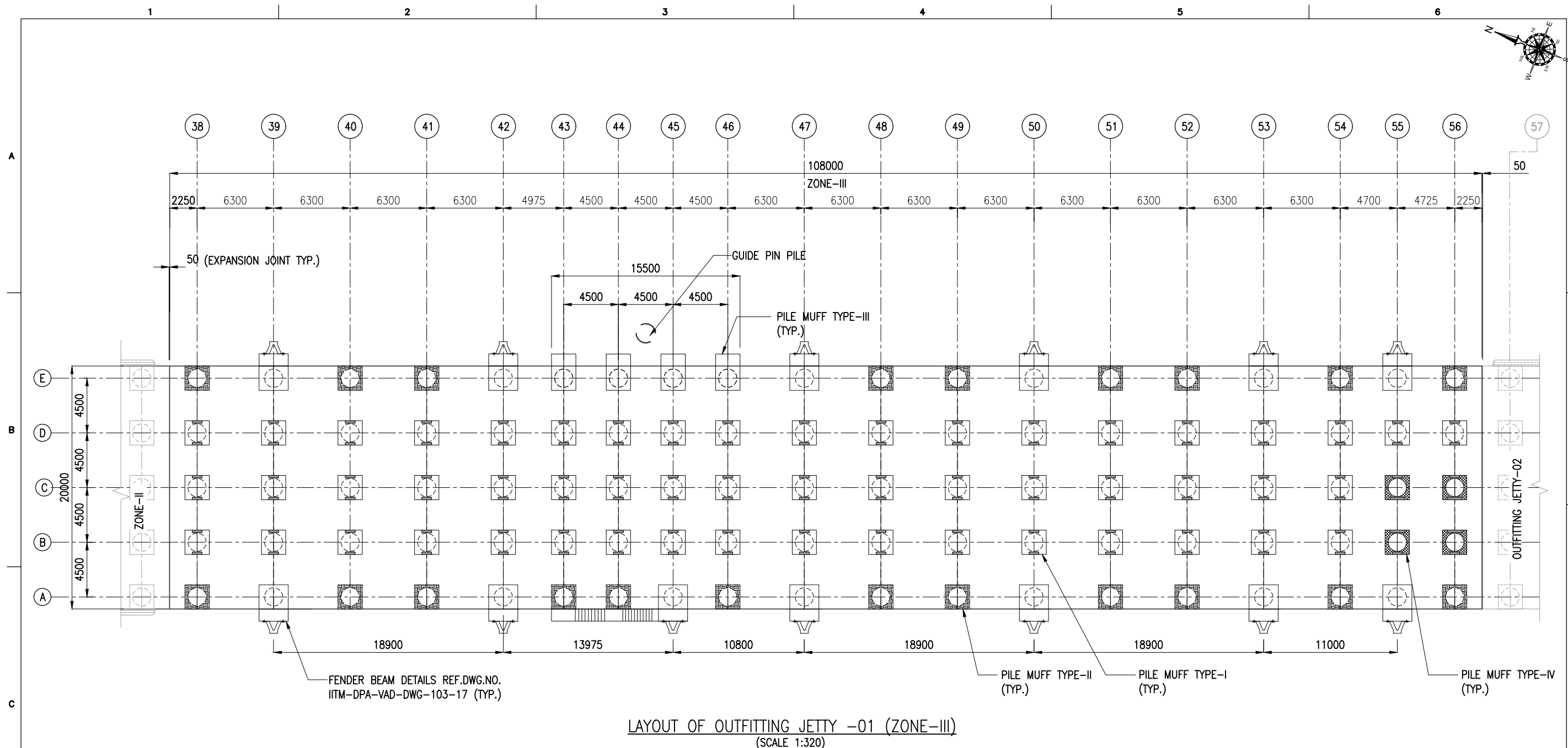
SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	54	AT GRID B&C - 20 TO 37 AT GRID D - 20 TO 37
TYPE-II	2000x2000x700	4.11	24	AT GRID A&E - 20,22,23,25,26,28, 29,31,32,34,35& 37



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 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

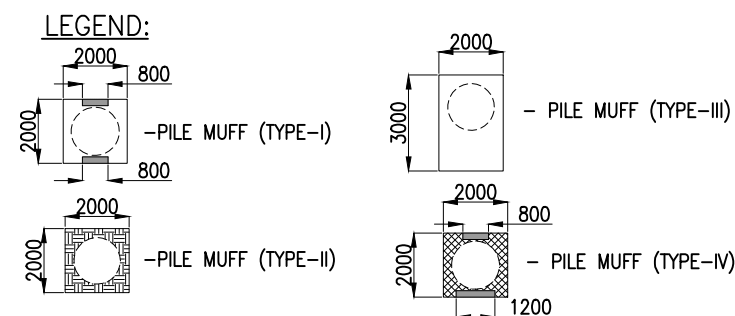
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A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 02 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-02			DATE: 20.05.26	REV: B



LAYOUT OF OUTFITTING JETTY -01 (ZONE-III)
(SCALE 1:320)

SCHEDULE FOR PRECAST PILE MUFF:

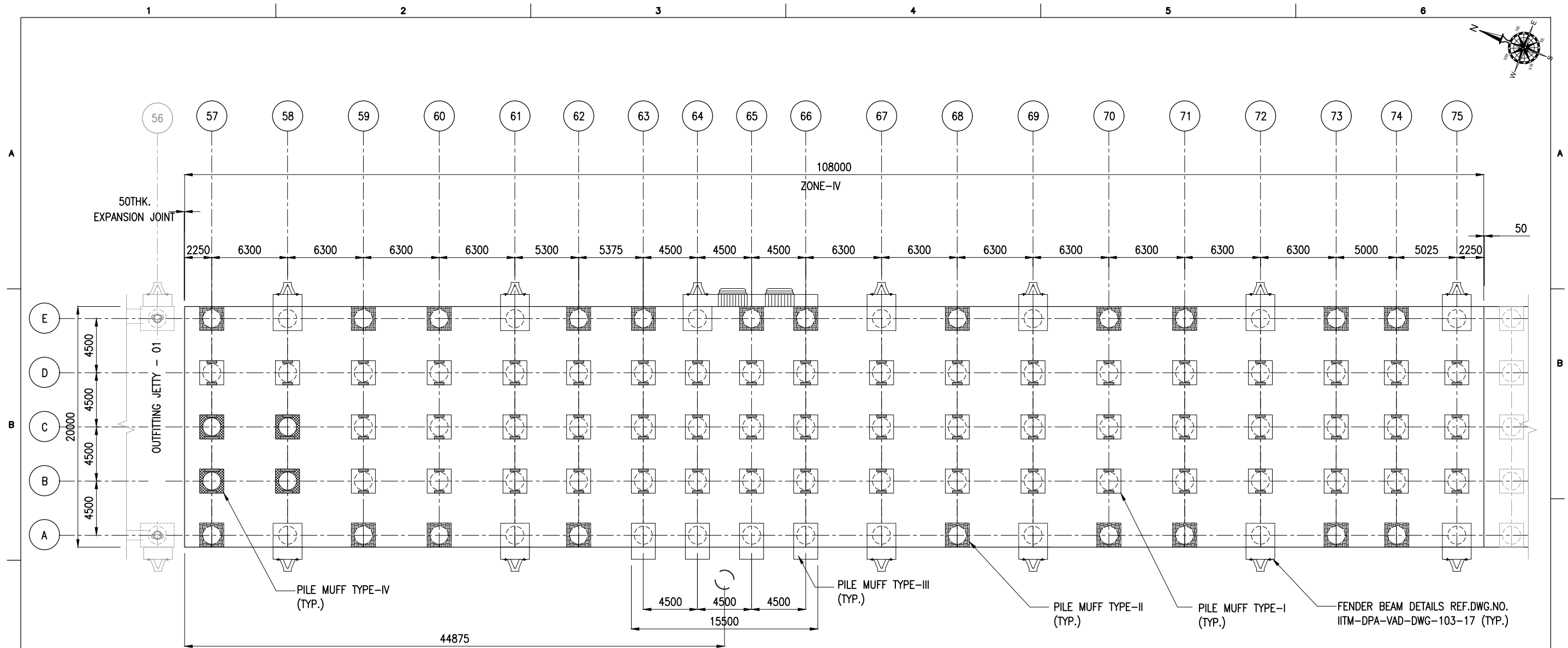
TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	53	AT GRID B&C - 38 TO 54 AT GRID D - 38 TO 56
TYPE-II	2000x2000x700	4.11	21	AT GRID A - 38,40,41,43,44,45,48,49, 51,52,54 & 56 AT GRID E - 38,40,41,43,48, 49,51,52,54 & 56
TYPE-III	2000x3000x700	7.61	4	AT GRID E - 43 TO 46
TYPE-IV	2000x2000x700	4.31	4	AT GRID B&C - 55 & 56



NOTES:

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B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 03 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-03		DATE: 20.05.26		REV: B

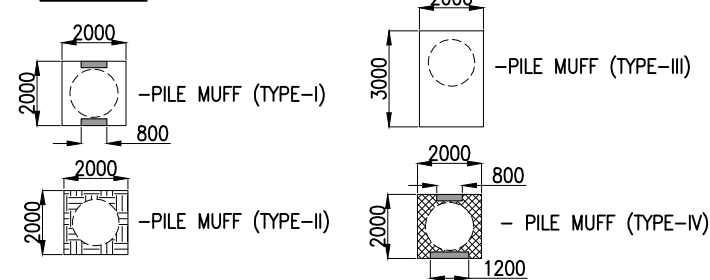


LAYOUT OF OUTFITTING JETTY -02 (ZONE-IV)
(SCALE 1:320)

SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	53	AT GRID B&C - 59 TO 75 AT GRID D - 57 TO 75
TYPE-II	2000x2000x700	4.11	21	AT GRID A - 57,59,60,62,68,70,71,73& 74 AT GRID E - 57,59,60,62,63,65,66,68,70,71,73& 74
TYPE-III	2000x3000x700	7.61	4	AT GRID A - 63 TO 66
TYPE-IV	2000x2000x700	4.31	4	AT GRID C&B - 57 & 58

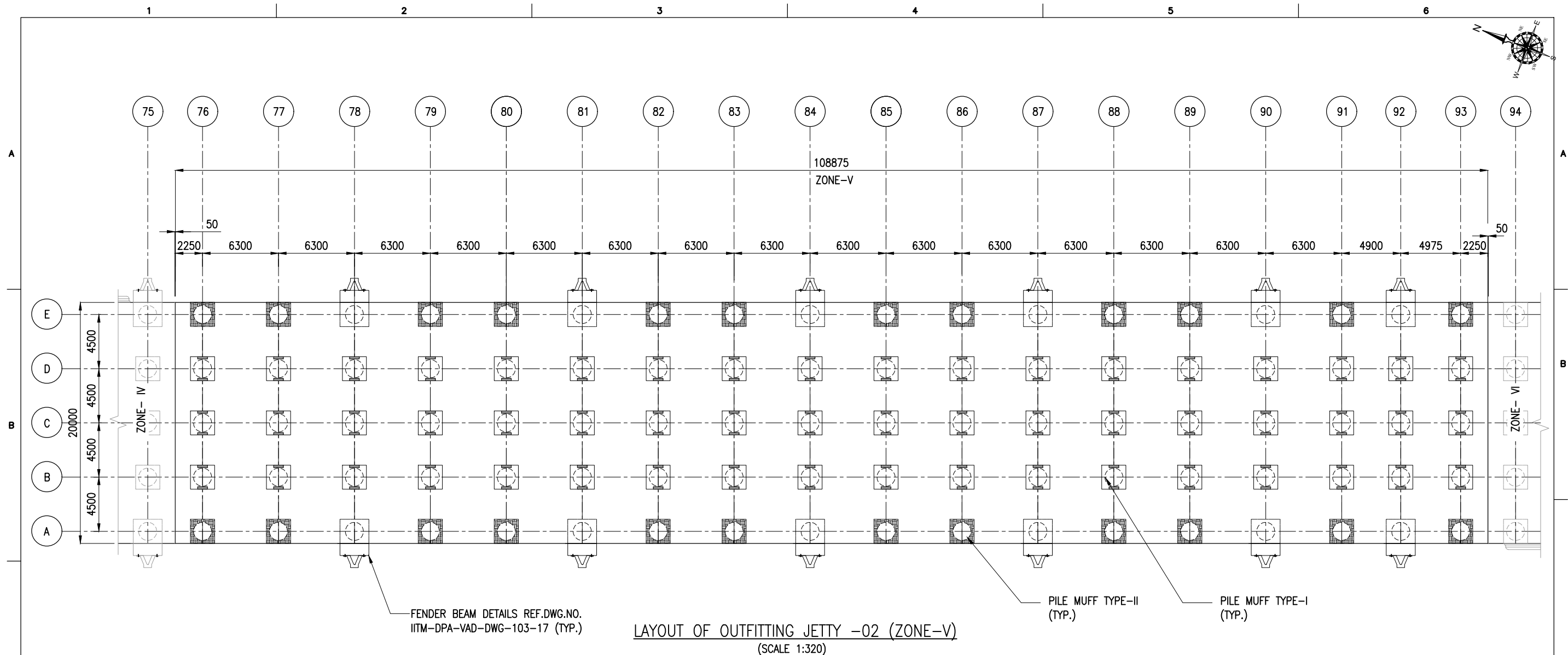
LEGEND:



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

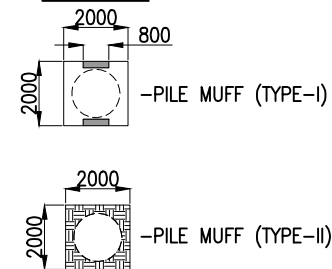
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A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 04 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-04		DATE: 20.05.26		REV: B



SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	54	AT GRID B,C&D - 76 TO 93
TYPE-II	2000x2000x700	4.11	24	AT GRID A & E - 76,77,79,80,82,83,85,86,88,89,91& 93

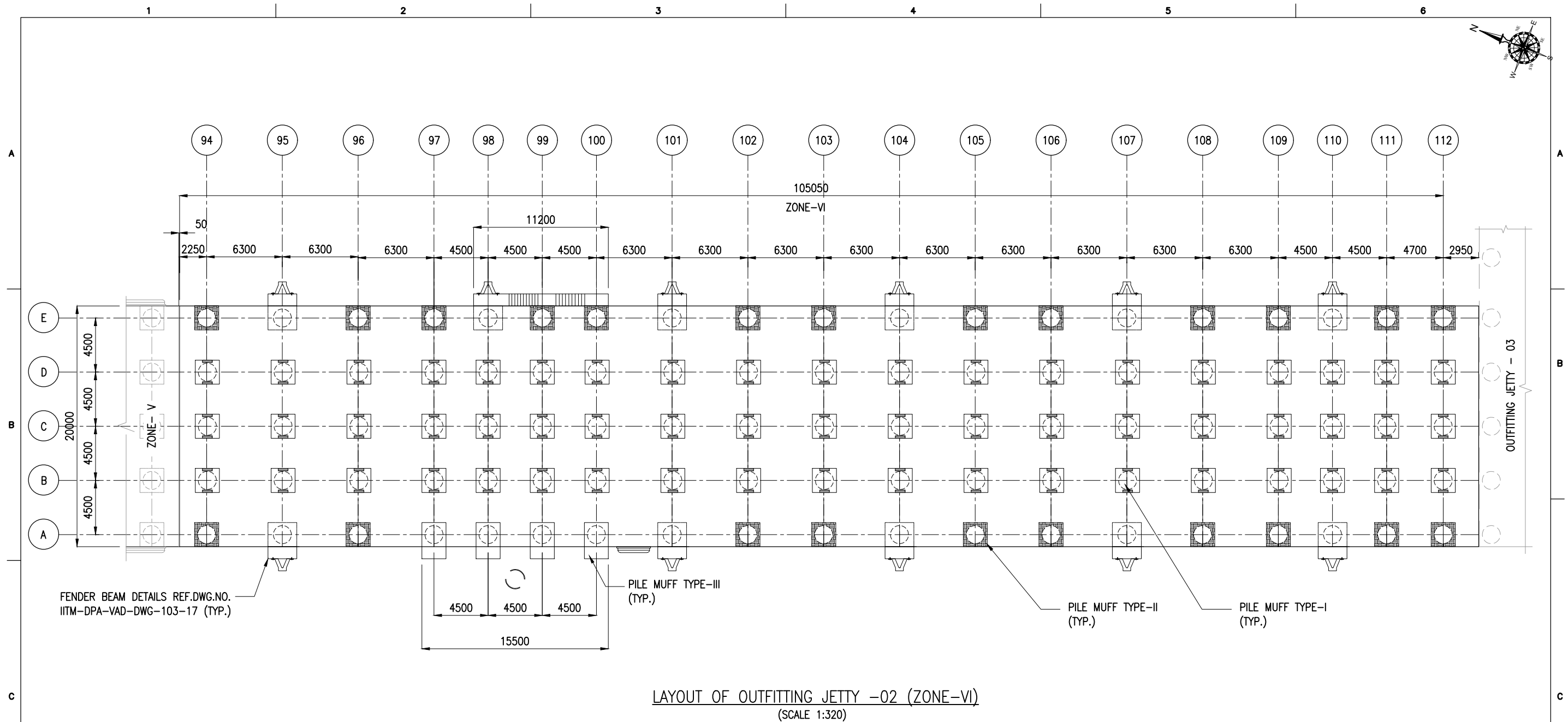
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NOTES:

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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

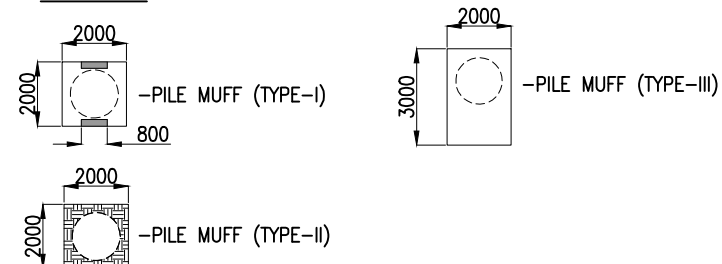
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 05 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-05			DATE: 20.05.26	REV: B



SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	57	AT GRID B,C&D - 94 TO 112
TYPE-II	2000x2000x700	4.11	23	AT GRID A - 94,96,102,103,105,106,108,109,111& 112 AT GRID E - 94,96,97,99,100,102,103,105,106,108,109, 111& 112
TYPE-III	2000x3000x700	7.61	4	AT GRID A - 97 TO 100

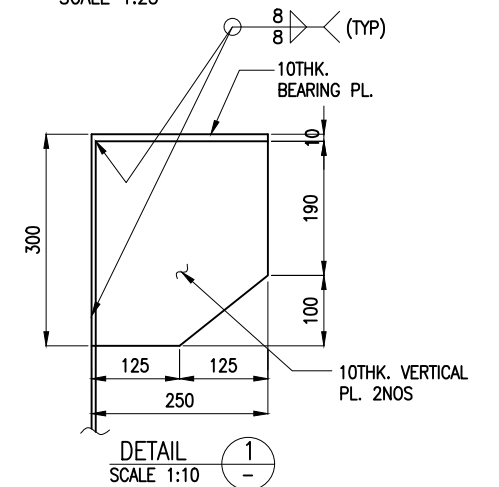
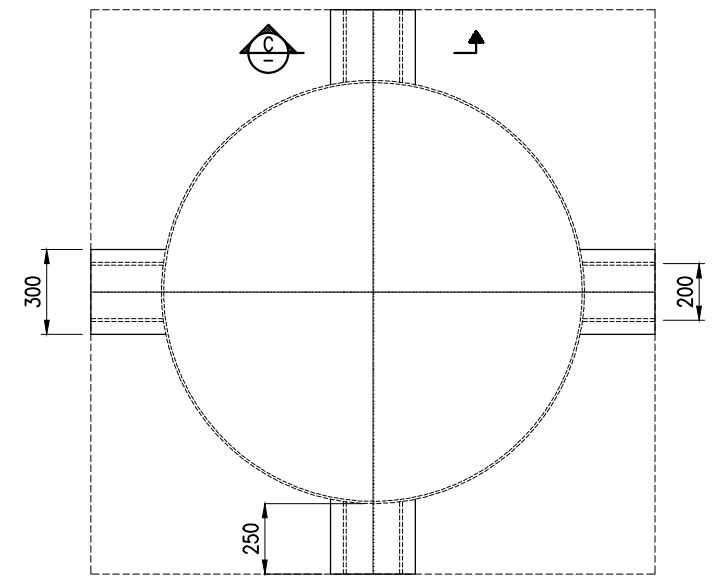
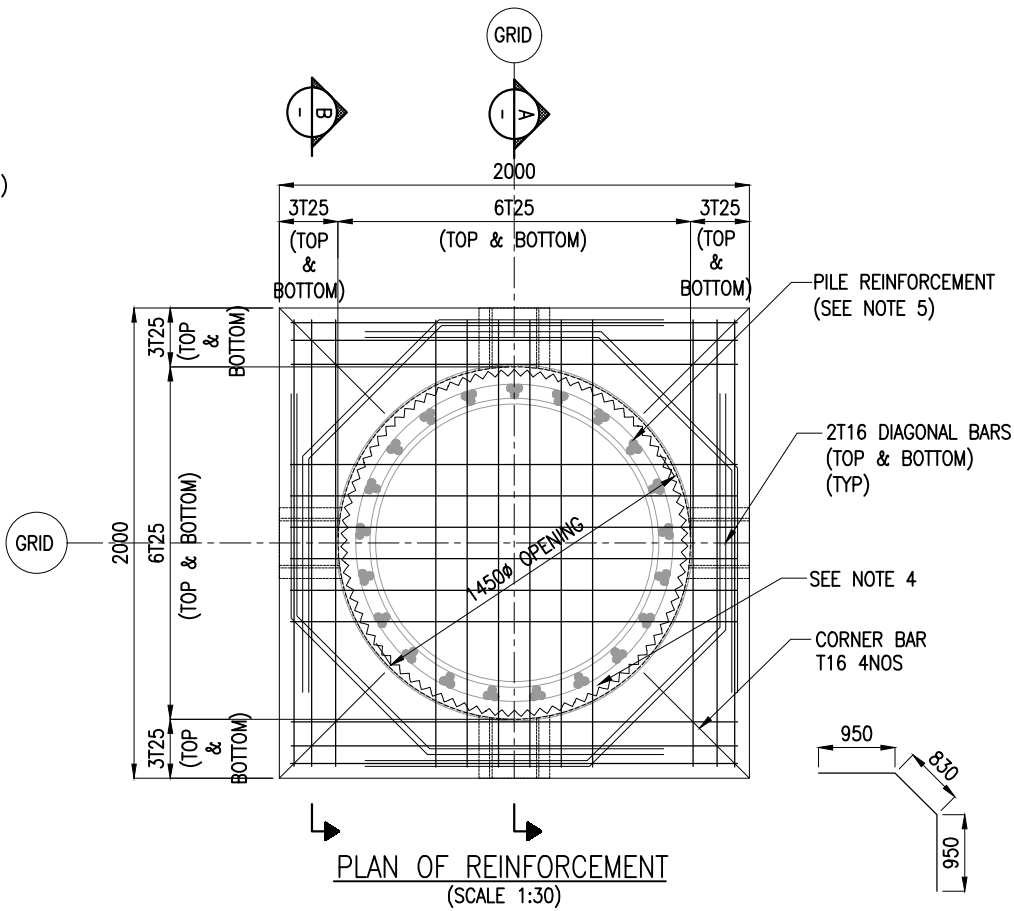
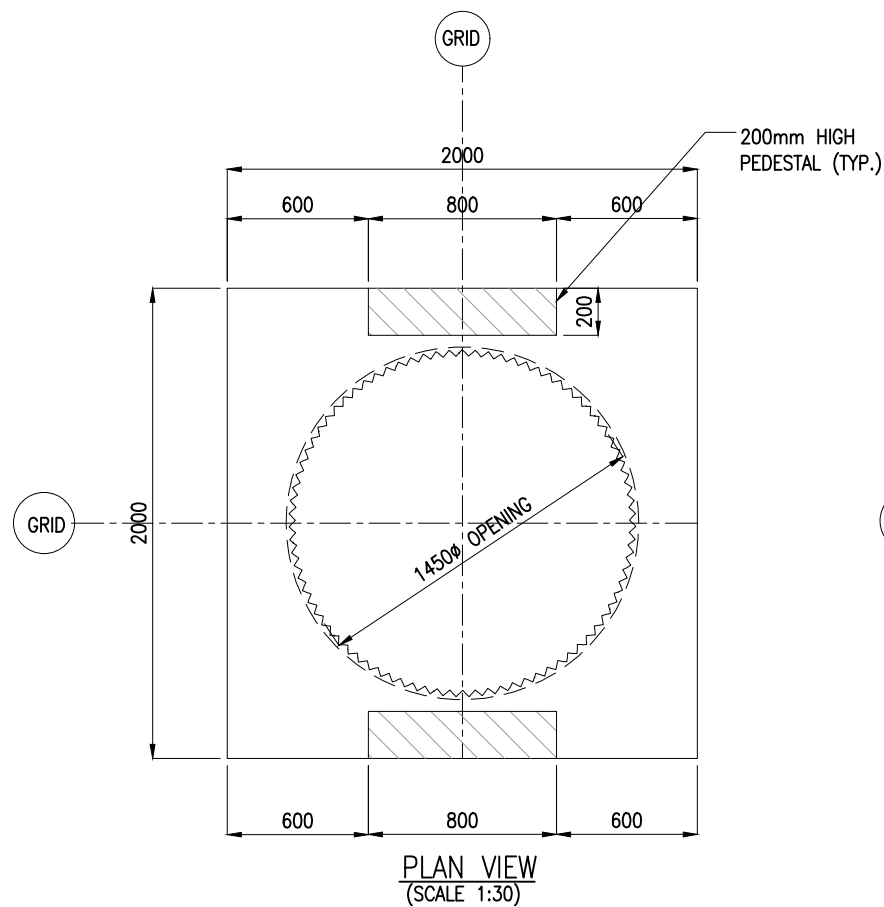
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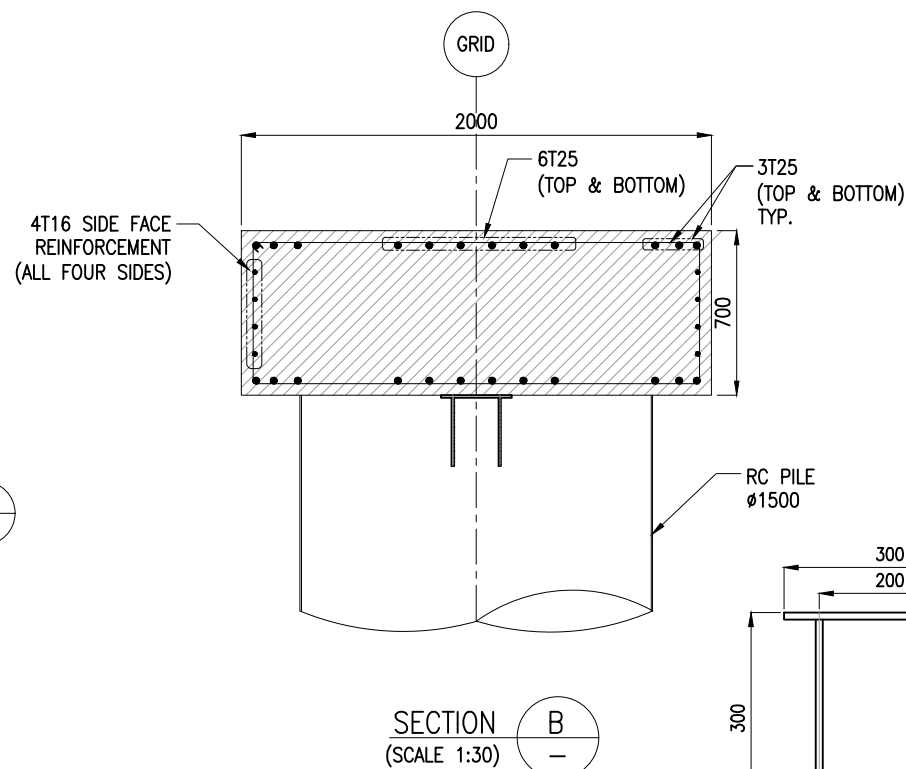
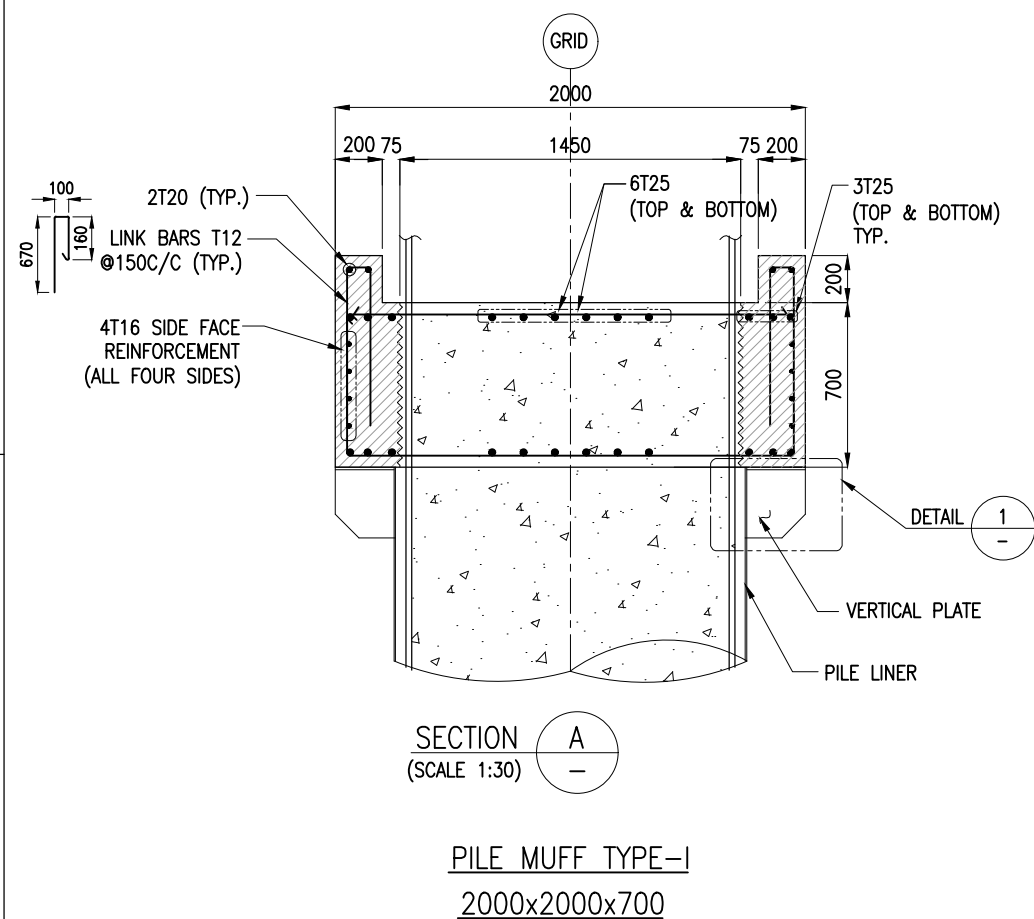
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 06 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-06			DATE: 20.05.26	REV: B

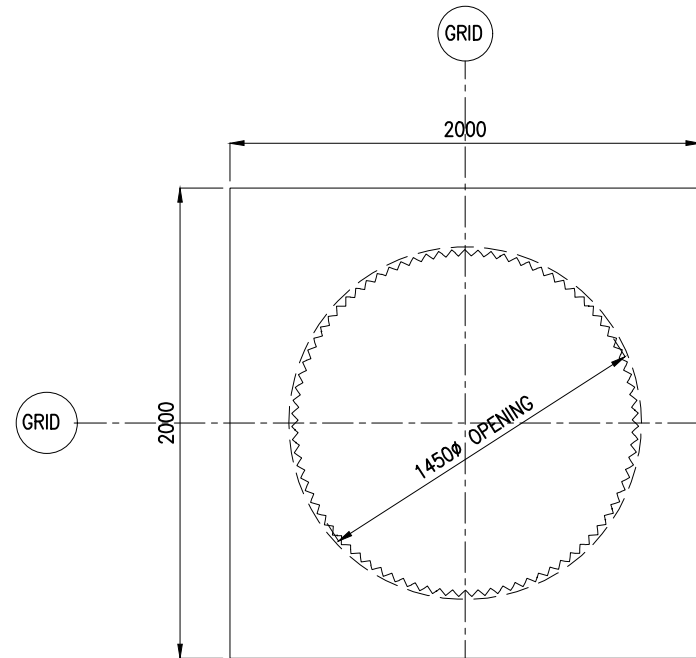


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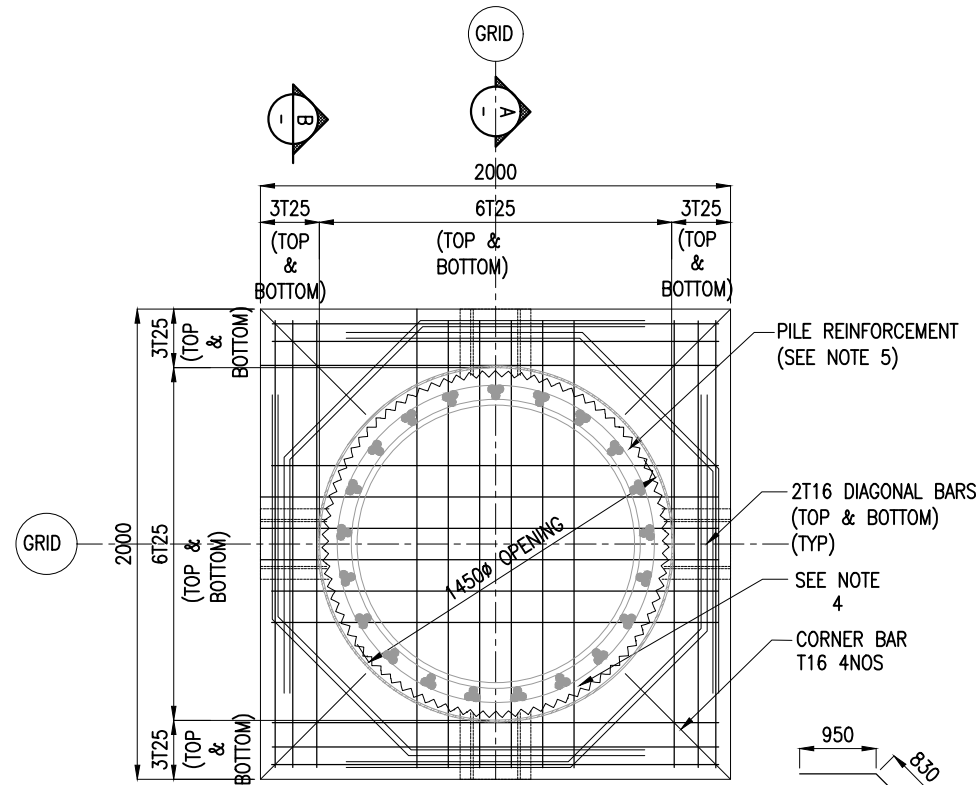
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
- INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
- PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
- FOR CONSTRUCTION SEQUENCE REFER TO DRAWING NO.IITM-DPA-VAD-DWG-102-11.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 07 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-07		DATE: 20.05.26		REV: B

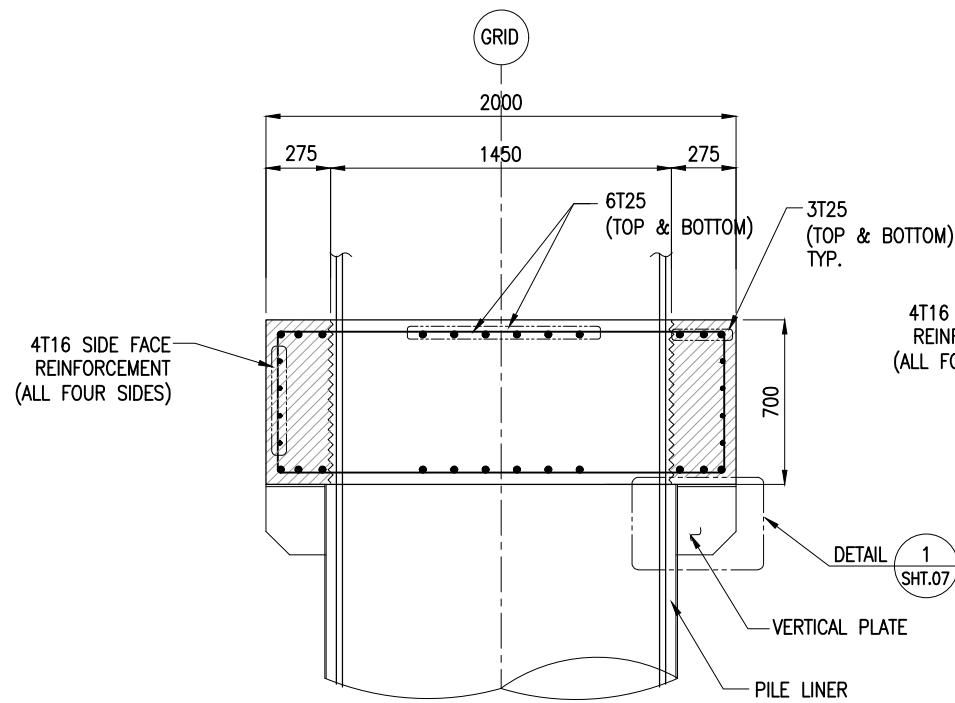




PLAN VIEW
(SCALE 1:30)

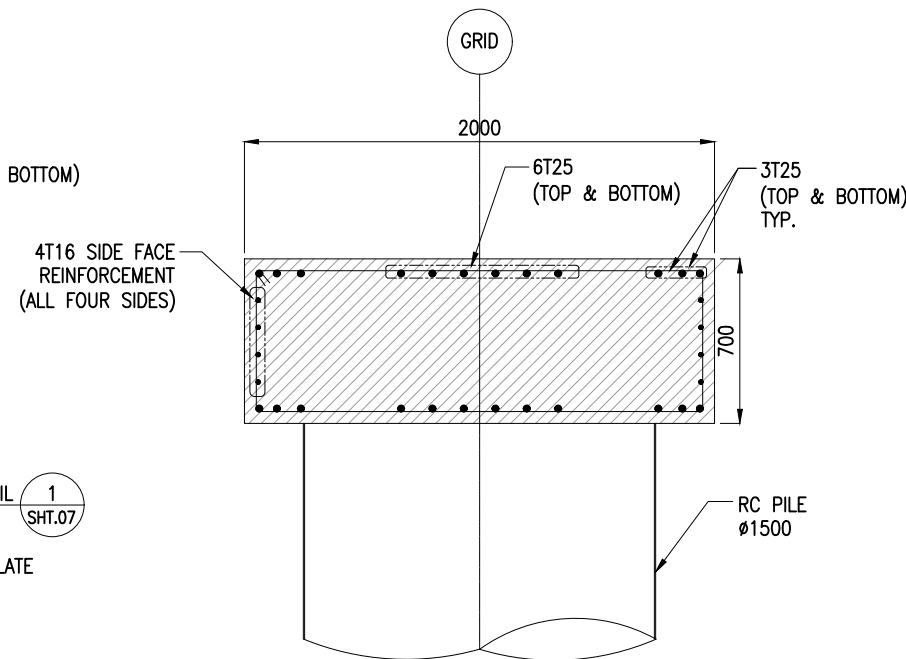


PLAN OF REINFORCEMENT
(SCALE 1:30)



SECTION A
(SCALE 1:30)

PILE MUFF TYPE-II
2000x2000x700

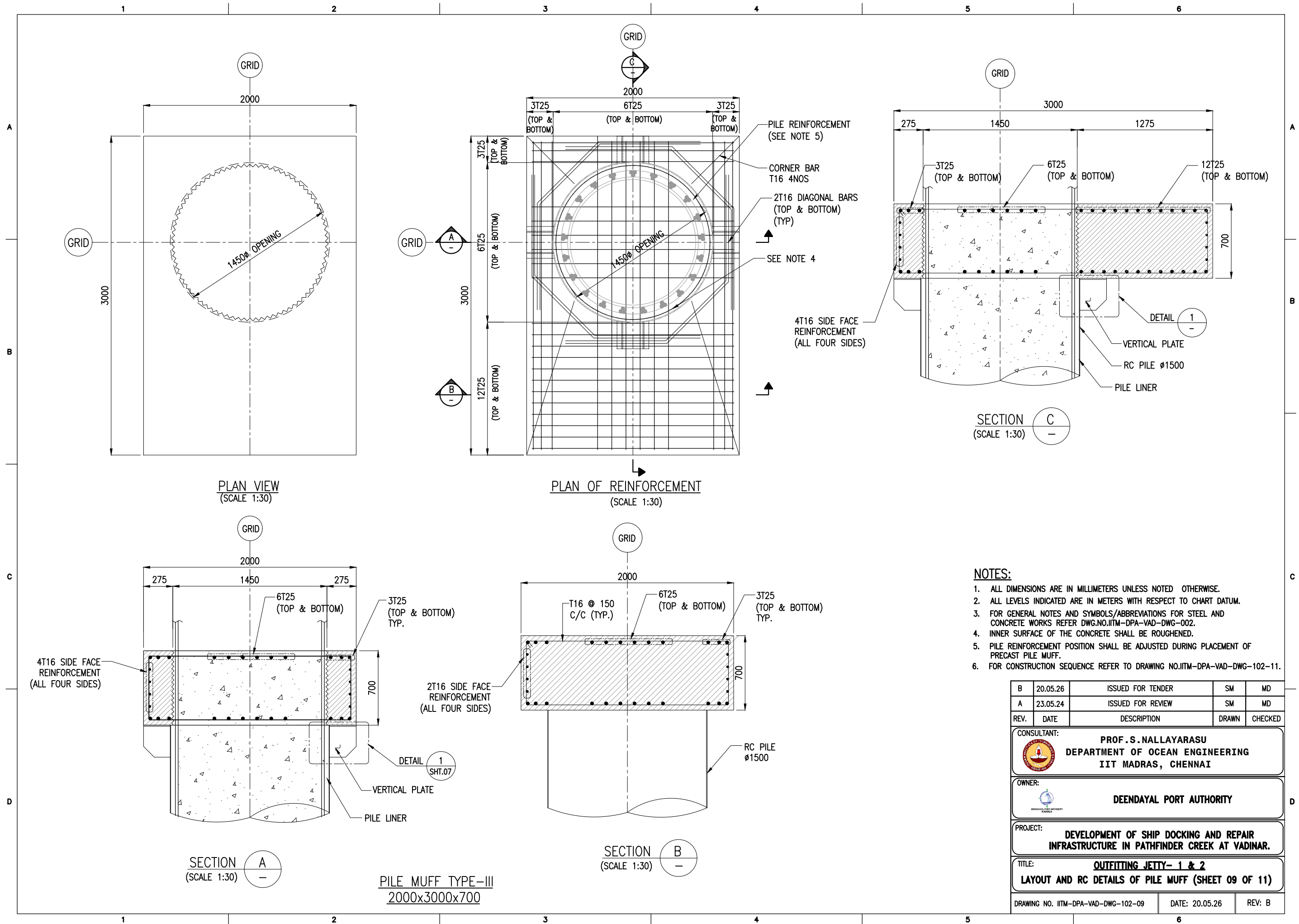




SECTION B
(SCALE 1:30)

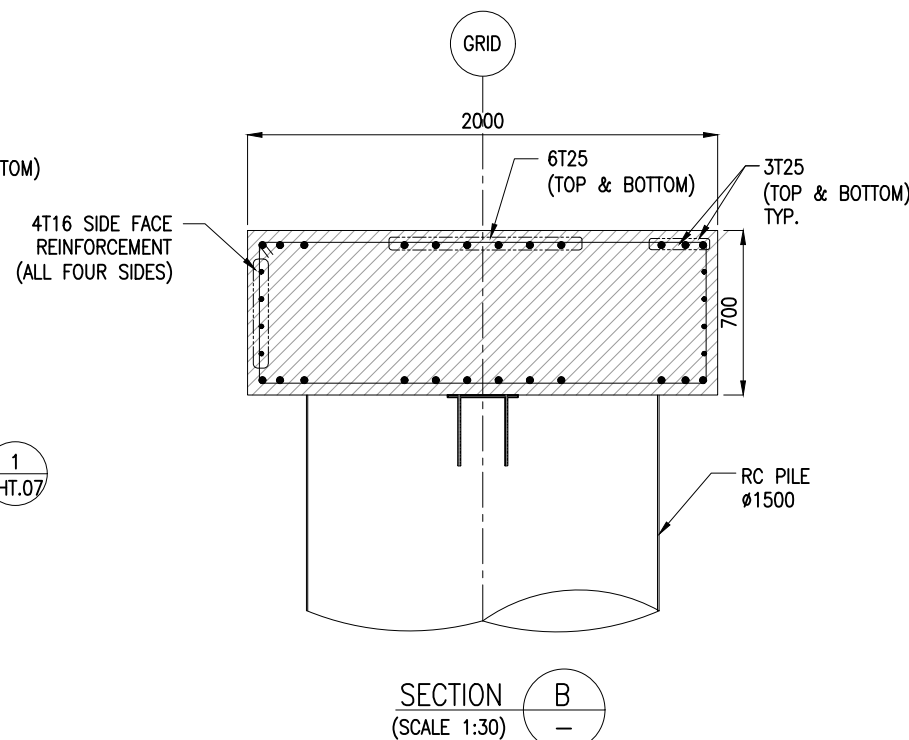
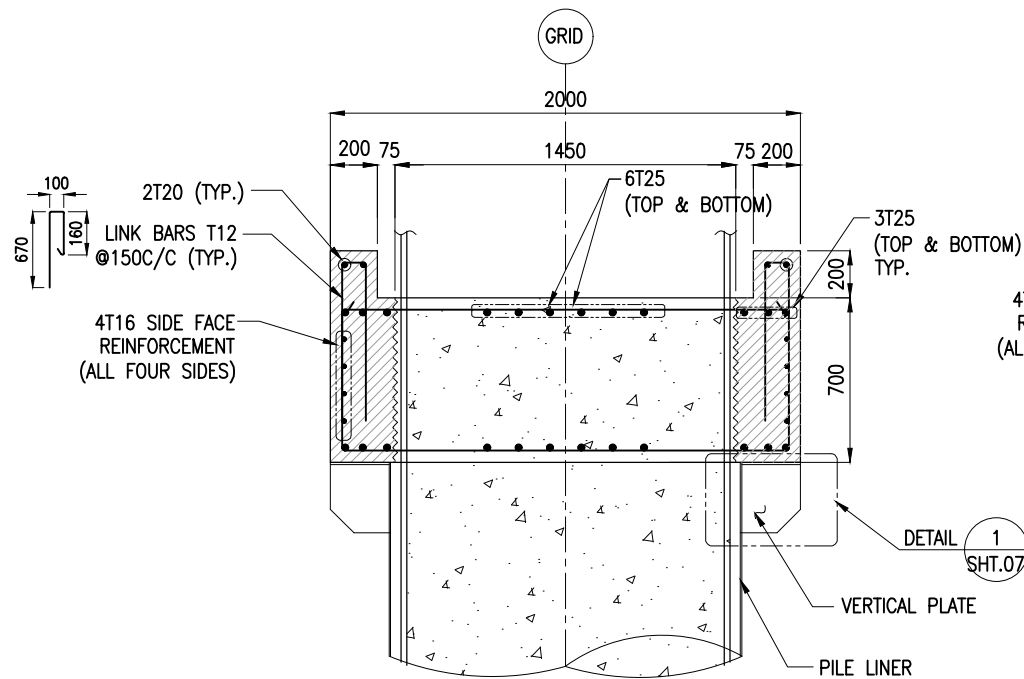
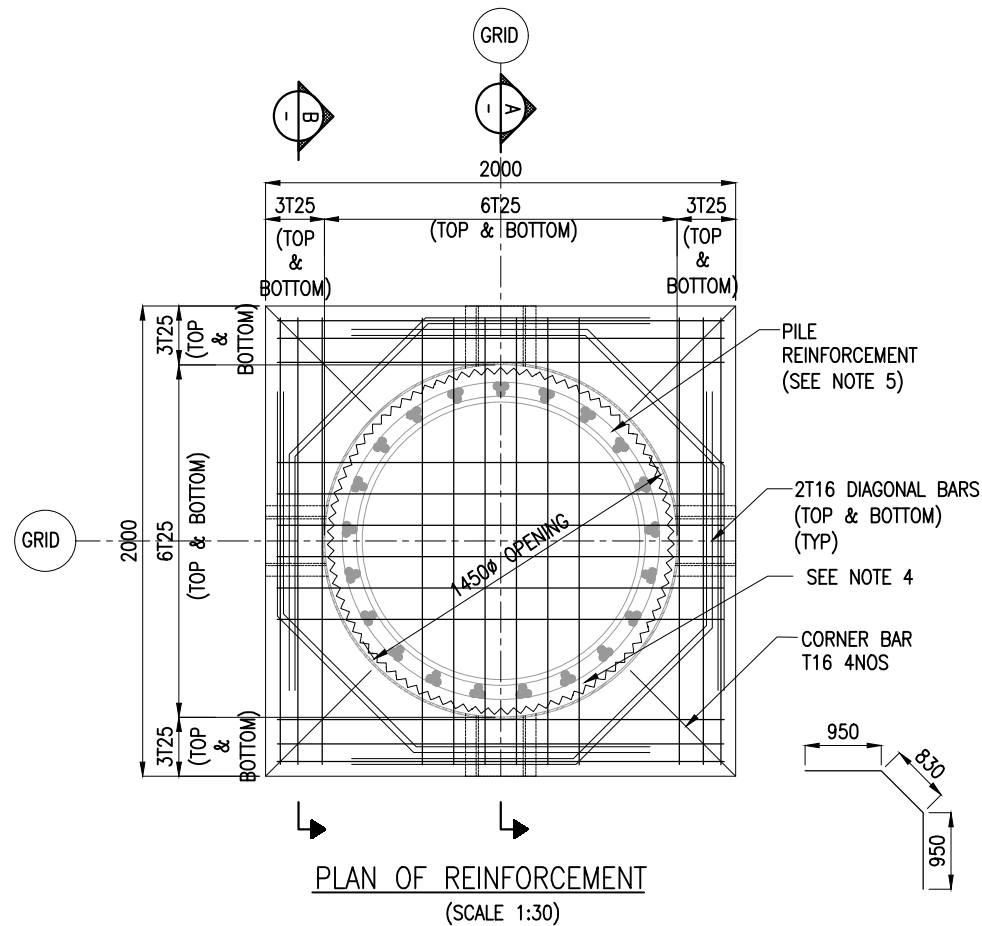
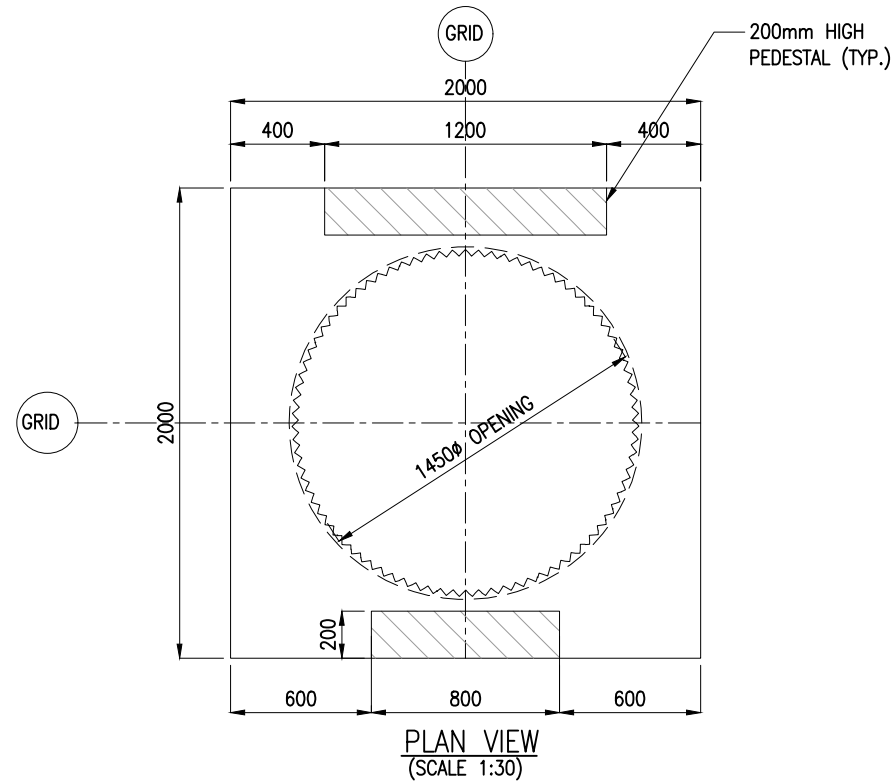
NOTES:

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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
- INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
- PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
- FOR CONSTRUCTION SEQUENCE REFER TO DRAWING NO.IITM-DPA-VAD-DWG-102-11.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 08 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-08		DATE: 20.05.26		REV: B



B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 09 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-09		DATE: 20.05.26	REV: B	

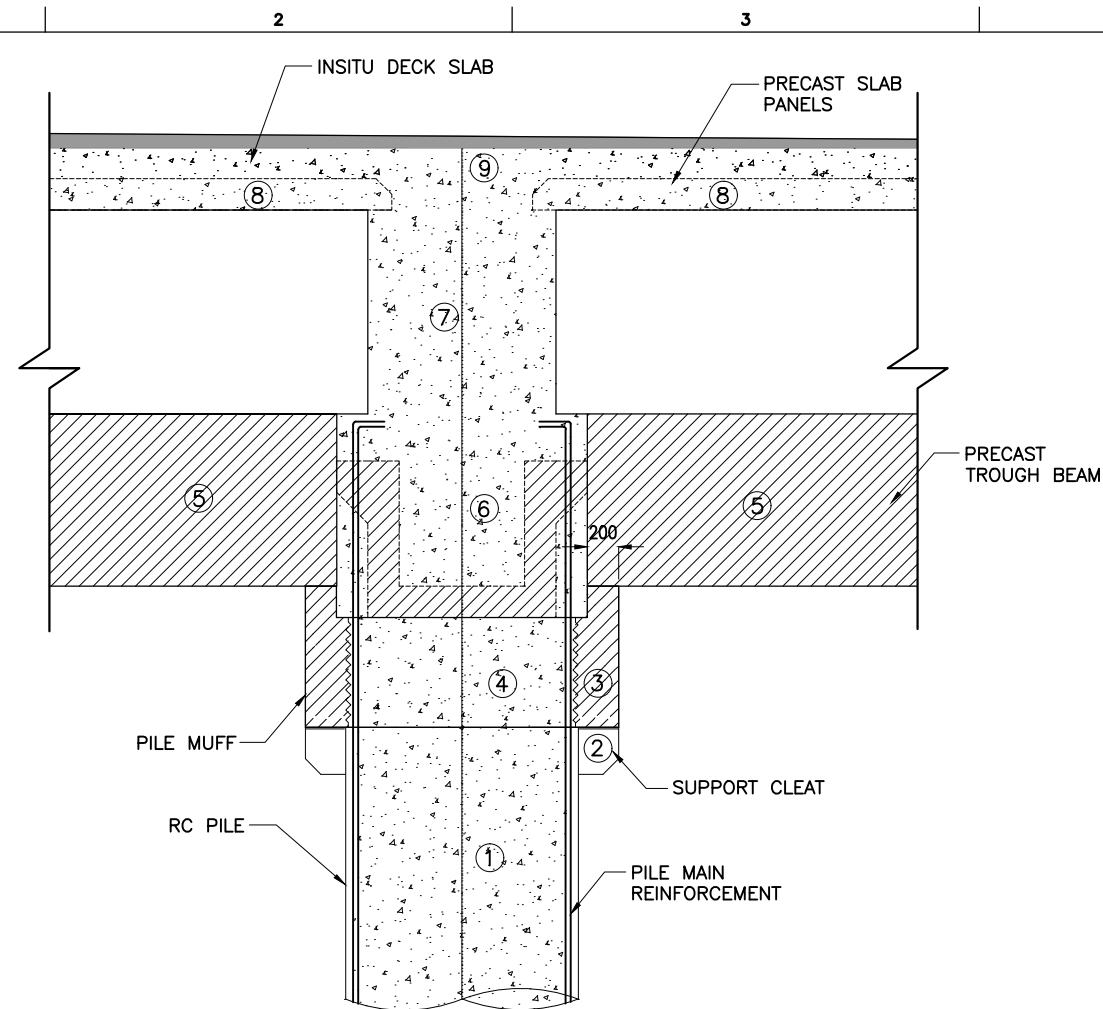


PILE MUFF TYPE-IV
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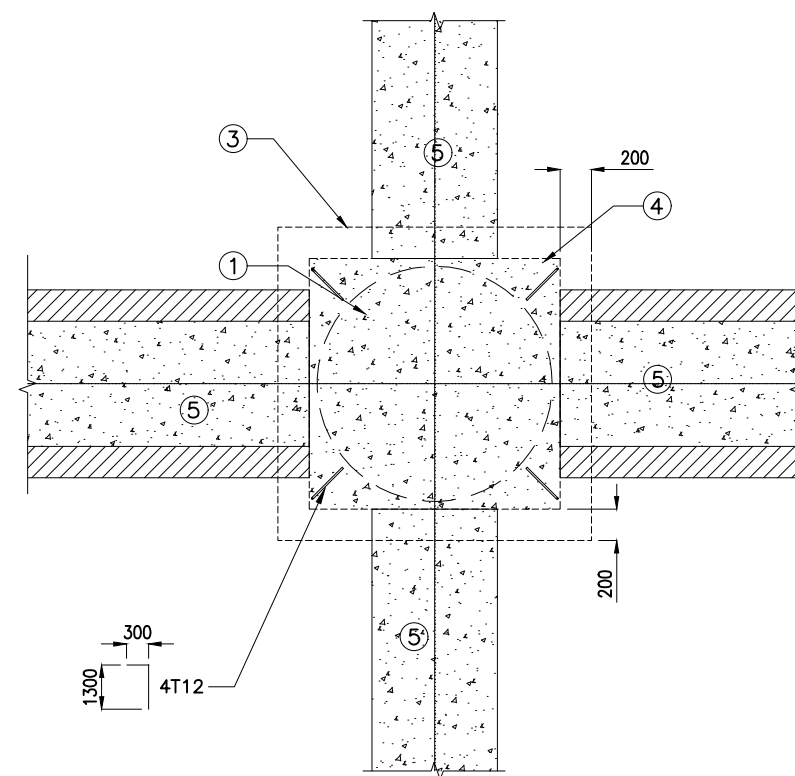
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
- INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
- PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
- FOR CONSTRUCTION SEQUENCE REFER TO DRAWING NO.IITM-DPA-VAD-DWG-102-11.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 10 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-10		DATE: 20.05.26		REV: B



TYPICAL PILE HEAD CONSTRUCTION SEQUENCE
(SCALE 1:45)





SECTION A
(SCALE 1:45)

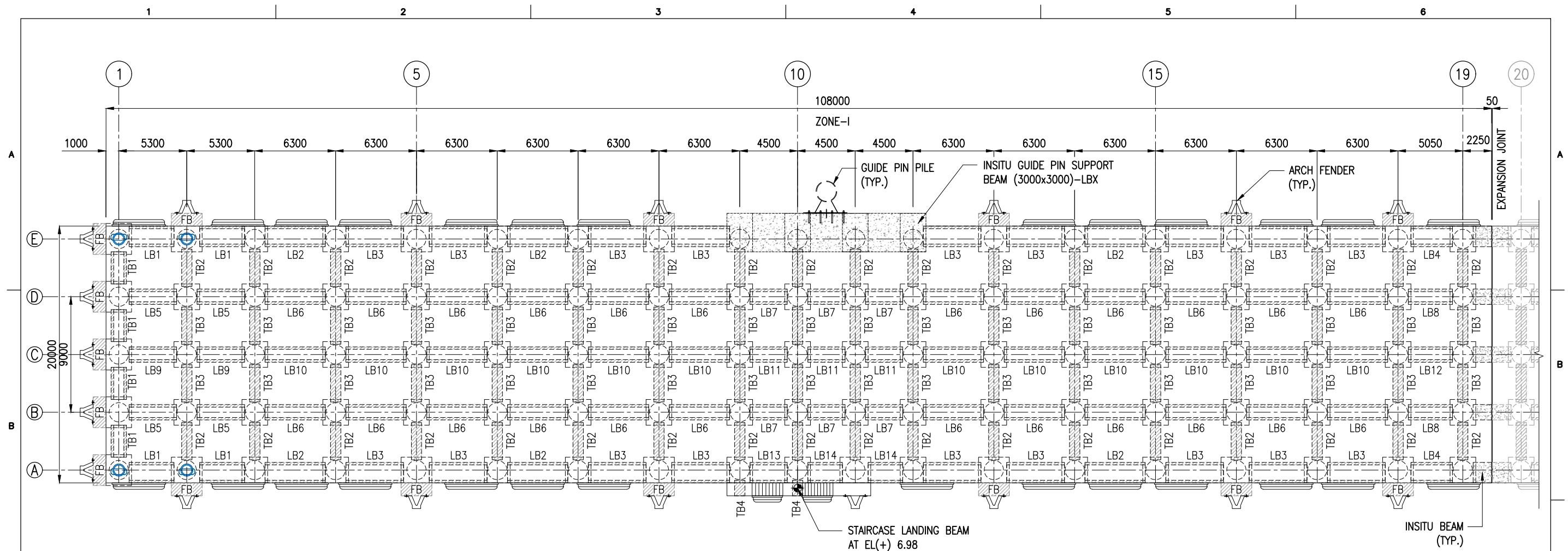
CONSTRUCTION SEQUENCE

1. CONSTRUCTION OF BORED RC PILE
2. WELDING OF SUPPORT CLEAT ON PILE
3. PILE MUFF PLACEMENT
4. PILE MUFF INFILL
5. PLACEMENT OF PRECAST TROUGH BEAM
6. INFILL AT JUNCTION
7. CONSTRUCTION OF INSITU BEAM
8. PLACEMENT OF PRECAST SLAB
9. FINAL IN-SITU SLAB

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 11 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-102-11		DATE: 20.05.26		REV: B



LAYOUT OF RC BEAM AT LOWER DECK AT EL(+). 6.83m
(OUTFITTING JETTY-01)
ZONE-I
(SCALE 1:300)

PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
LB1	3500	1600	1000	5.60	4
LB2	4700	1600	1000	7.52	6
LB3	4500	1600	1000	7.20	18
LB4	3250	1600	1000	5.20	2
LB5	3700	1200	1000	5.74	4
LB6	4700	1200	1000	7.29	24
LB7	2900	1200	1000	4.50	6
LB8	3450	1200	1000	5.35	2
LB9	3700	1200	1000	5.18	2
LB10	4700	1200	1000	6.58	12
LB11	2900	1200	1000	4.06	3
LB12	3450	1200	1000	4.83	1
LB13	2900	1600	1000	4.64	1
LB14	2700	1600	1000	4.32	2

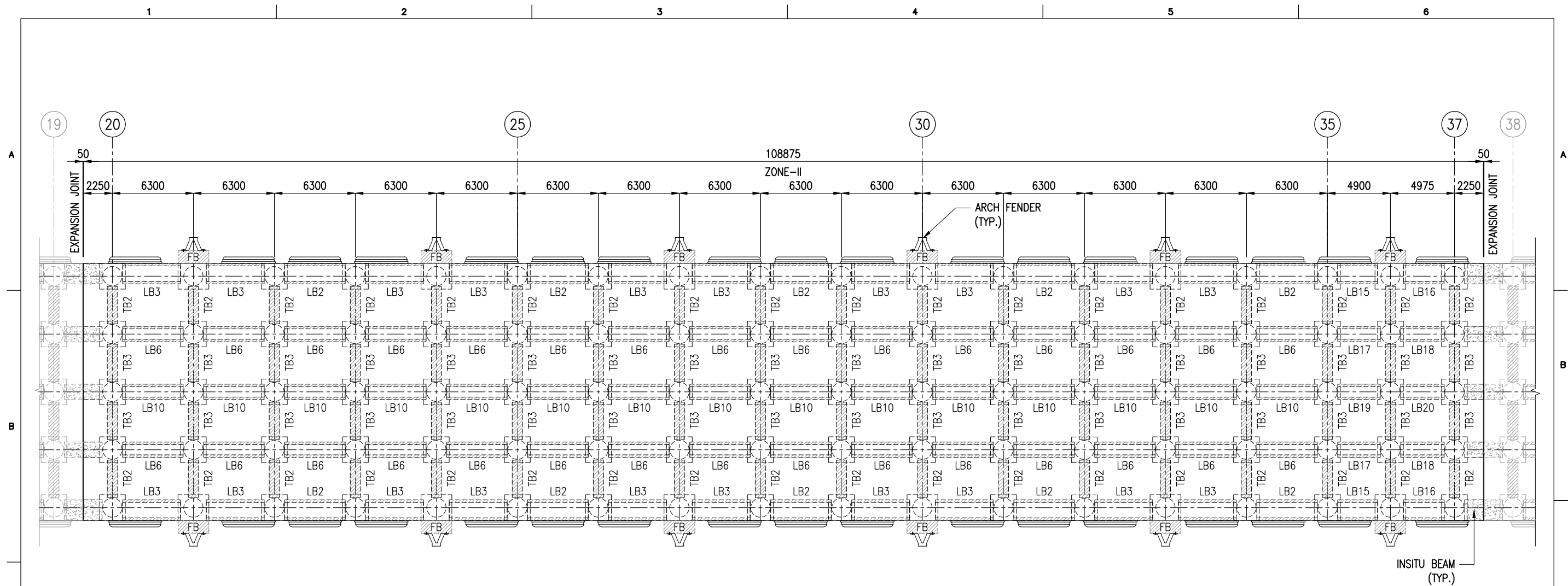
PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
TB1	3500	1600	1000	5.60	4
TB2	2900	800	800	5.12	36
TB3	2900	800	1100	6.38	36
TB4	1200	600	550	0.99	2

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 01 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-103-01			DATE: 20.05.26	REV: B



LAYOUT OF RC BEAM AT LOWER DECK AT EL(+) 6.83m
(OUTFITTING JETTY-01)
ZONE-II
(SCALE 1:300)

PRECAST BEAM SCHEDULE



TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
LB2	4700	1600	1000	7.52	10
LB3	4500	1600	1000	7.20	20
LB6	4700	1200	1000	7.29	30
LB10	4700	1200	1000	6.58	15
LB15	3100	1600	1000	4.96	2
LB16	3175	1600	1000	5.08	2
LB17	3300	1200	1000	5.12	2
LB18	3375	1200	1000	5.23	2
LB19	3300	1200	1000	4.62	1
LB20	3375	1200	1000	4.73	1

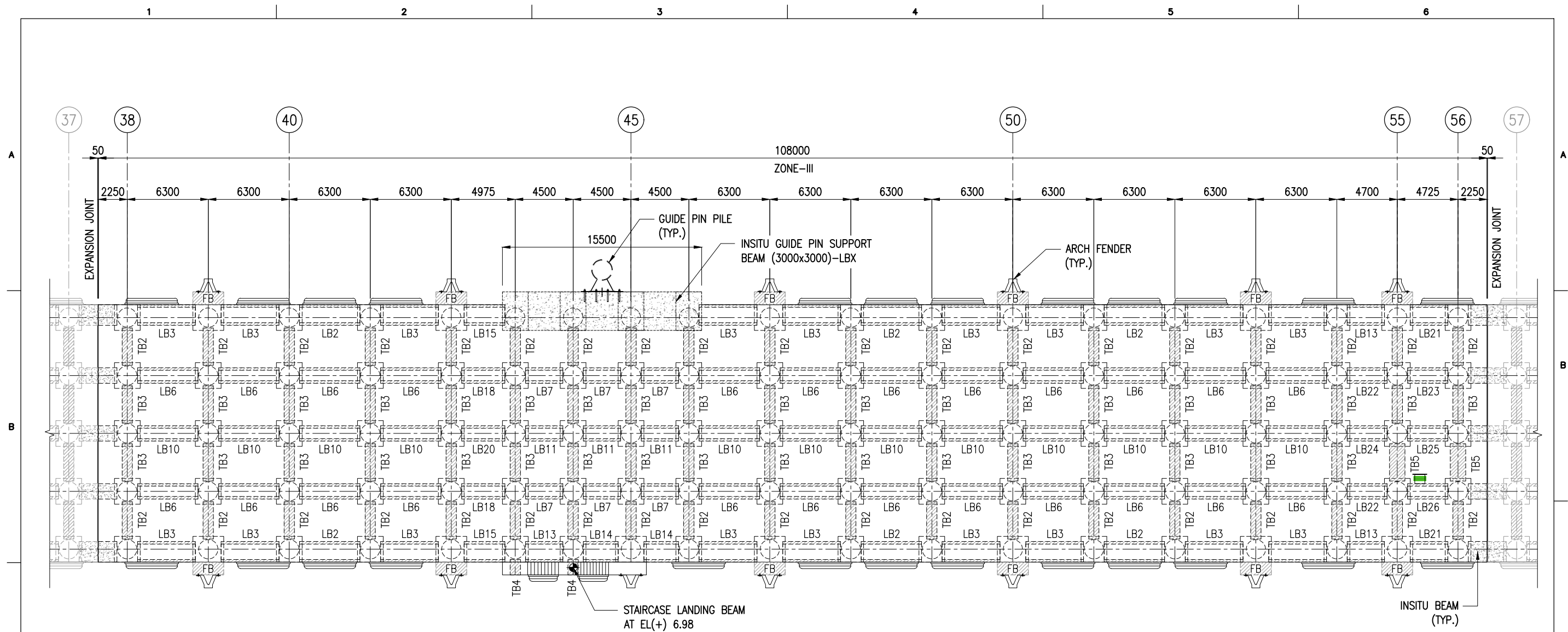
PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
TB2	2900	800	800	5.12	36
TB3	2900	800	1100	6.38	36

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 02 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-103-02			DATE: 20.05.26	REV: B



PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
LB2	4700	1600	1000	7.52	6
LB3	4500	1600	1000	7.20	18
LB6	4700	1200	1000	7.29	24
LB7	2900	1200	1000	4.50	6
LB10	4700	1200	1000	6.58	13
LB11	2900	1200	1000	4.06	3
LB13	2900	1600	1000	4.64	3
LB14	2700	1600	1000	4.32	2
LB15	3100	1600	1000	4.96	2
LB18	3375	1200	1000	5.23	2
LB20	3375	1200	1000	4.73	1
LB21	2925	1600	1000	4.68	2
LB22	3100	1200	1000	4.81	2
LB23	3125	1200	1000	4.84	1
LB24	3100	1200	1000	4.34	1
LB25	3125	1200	700	3.91	1
LB26	3125	1200	1000	4.84	1

LAYOUT OF RC BEAM AT LOWER DECK AT EL(+) 6.83m
(OUTFITTING JETTY-01)
ZONE-III
(SCALE 1:300)

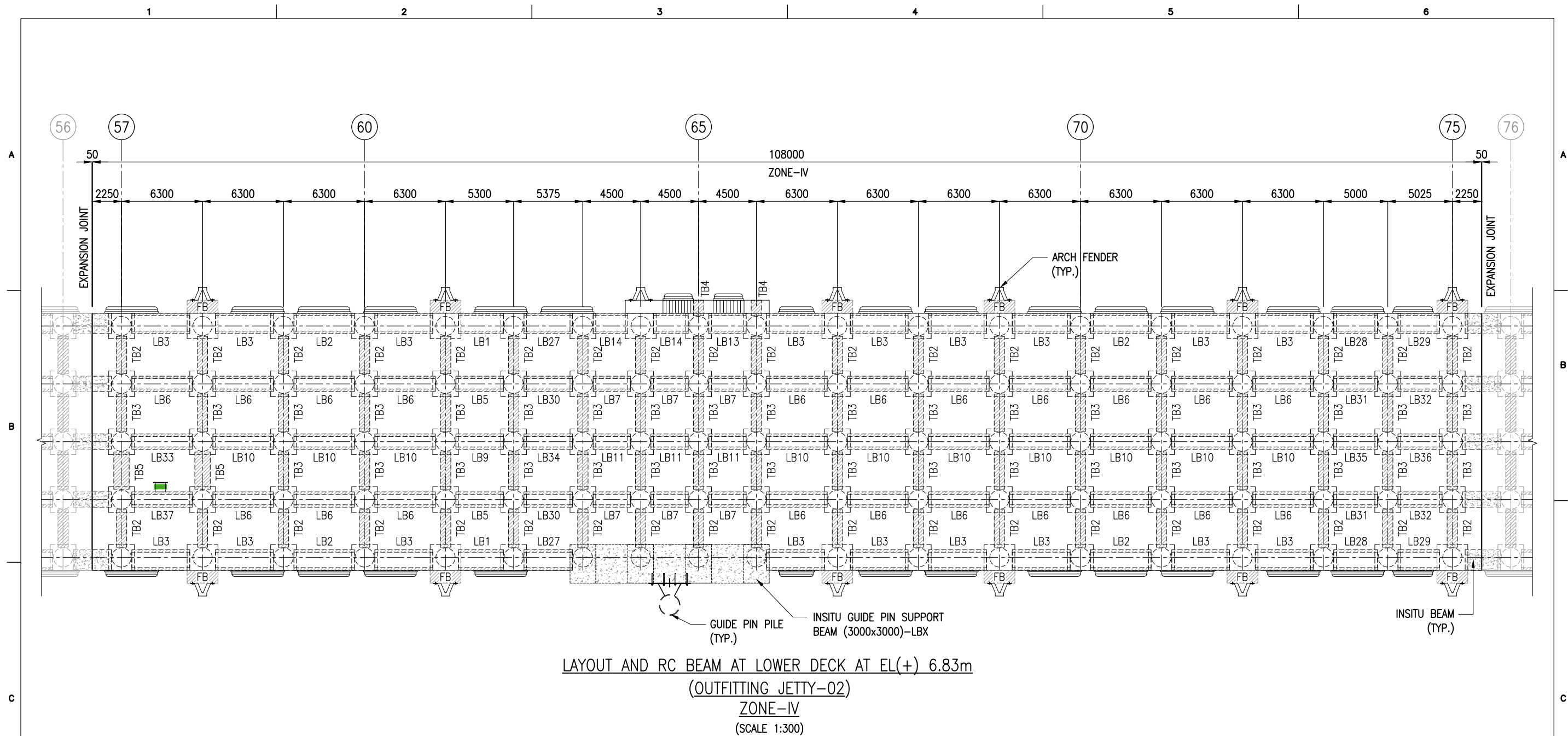
PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
TB2	2900	800	800	5.12	38
TB3	2900	800	1100	6.38	36
TB4	1200	600	550	0.99	2
TB5	2900	1200	500	4.57	2

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 03 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-103-03			DATE: 20.05.26	REV: B



PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
LB1	3500	1600	1000	5.60	2
LB2	4700	1600	1000	7.52	4
LB3	4500	1600	1000	7.20	18
LB5	3700	1200	1000	5.74	2
LB6	4700	1200	1000	7.29	21
LB7	2900	1200	1000	4.50	6
LB9	3700	1200	1000	5.18	1
LB10	4700	1200	1000	6.58	10
LB11	2900	1200	1000	4.06	3
LB13	2900	1600	1000	4.64	1
LB14	2700	1600	1000	4.32	2

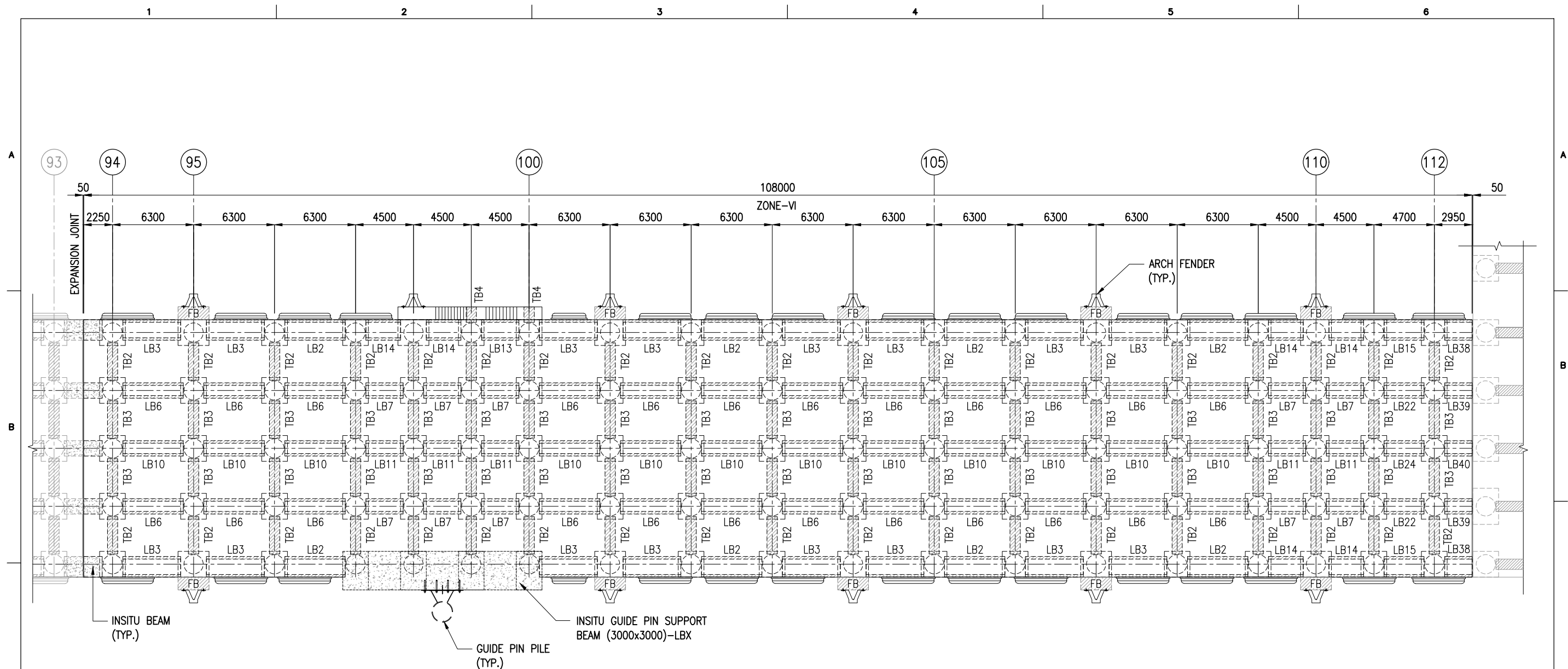
PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
LB27	3775	1600	1000	6.04	2
LB28	3400	1600	1000	5.44	2
LB29	3225	1600	1000	5.16	2
LB30	3775	1200	1000	5.85	2
LB31	3400	1200	1000	5.27	2
LB32	3425	1200	1000	5.31	2
LB33	4700	1200	700	5.88	1
LB34	3775	1200	1000	5.29	1
LB35	3400	1200	1000	4.76	1
LB36	3425	1200	1000	4.80	1
LB37	4700	1200	1000	7.29	1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 04 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-103-04			DATE: 20.05.26	REV: B



LAYOUT OF RC BEAM AT LOWER DECK AT EL(+) 6.83m
(OUTFITTING JETTY-02)
ZONE-VI
(SCALE 1:300)

PRECAST BEAM SCHEDULE



TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
LB2	4700	1600	1000	7.52	8
LB3	4500	1600	1000	7.20	16
LB6	4700	1200	1000	7.29	24
LB7	2900	1200	1000	4.50	10
LB10	4700	1200	1000	6.58	12
LB11	2900	1200	1000	4.06	5
LB13	2900	1600	1000	4.64	1
LB14	2700	1600	1000	4.32	6
LB15	3100	1600	1000	4.96	2
LB22	3100	1200	1000	4.81	2
LB24	3100	1200	1000	4.34	1
LB38	2150	1600	1000	3.44	2
LB39	2150	1200	1000	3.33	2
LB40	2150	1200	1000	3.01	1

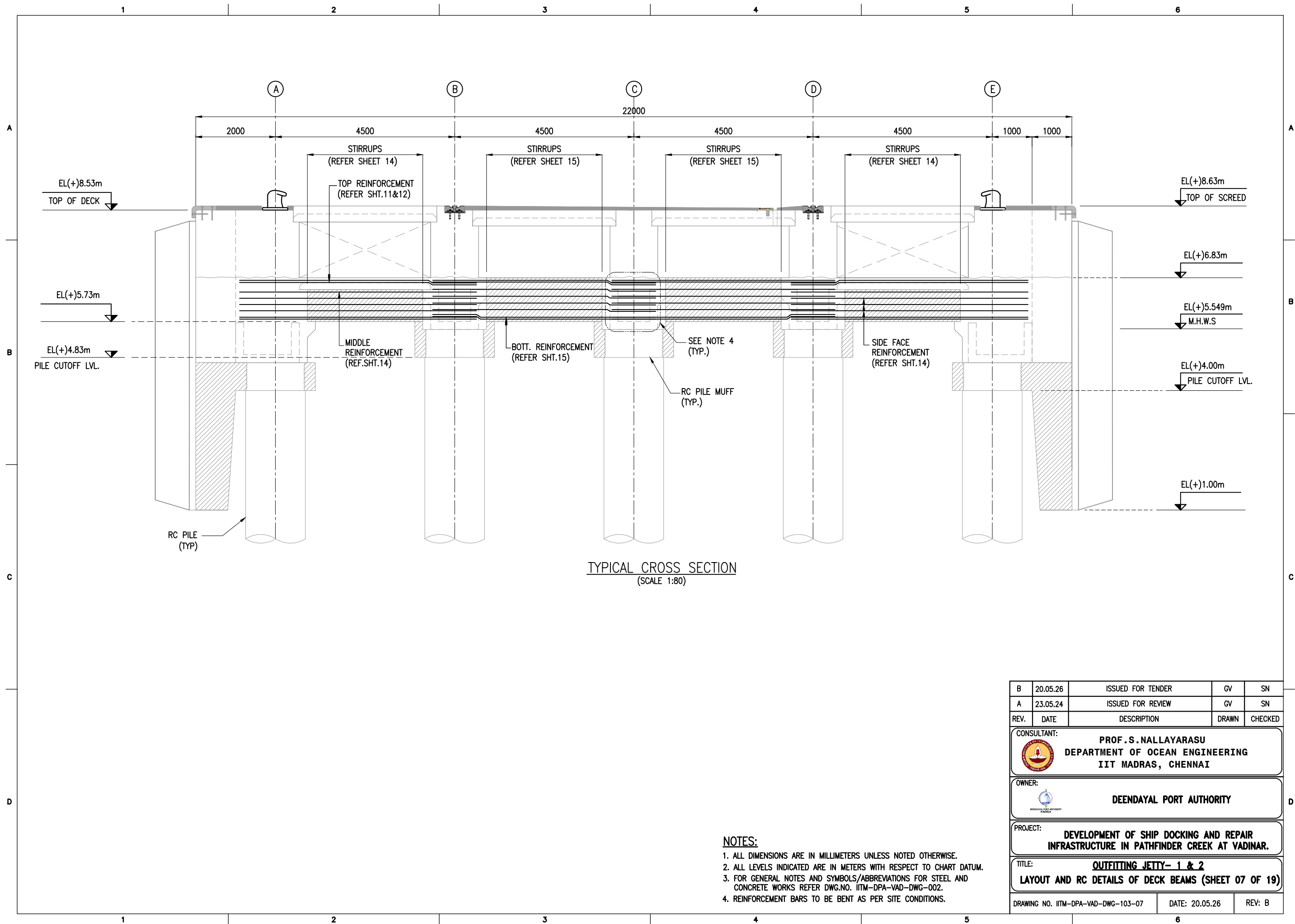
PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
TB2	2900	800	800	5.12	38
TB3	2900	800	1100	6.38	38
TB4	1200	600	550	0.99	2



NOTES:

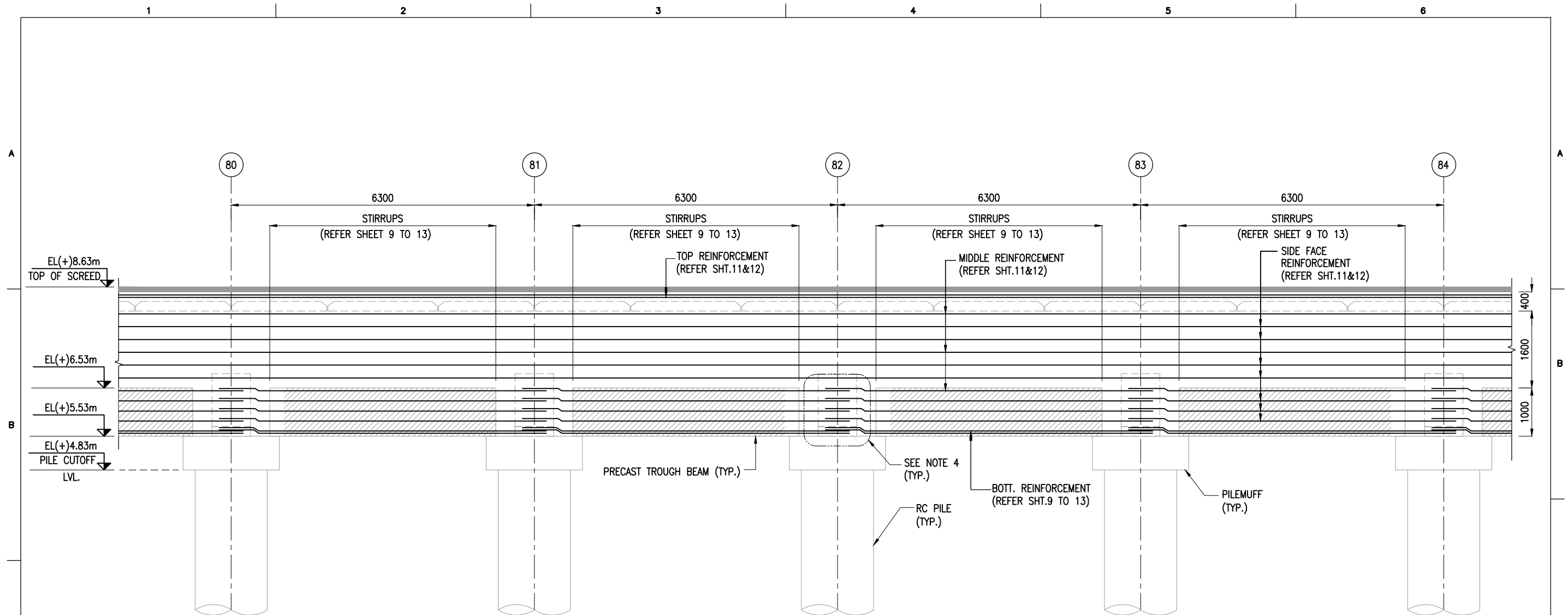
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 06 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-103-06			DATE: 20.05.26	REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 07 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-07			DATE: 20.05.26	REV: B

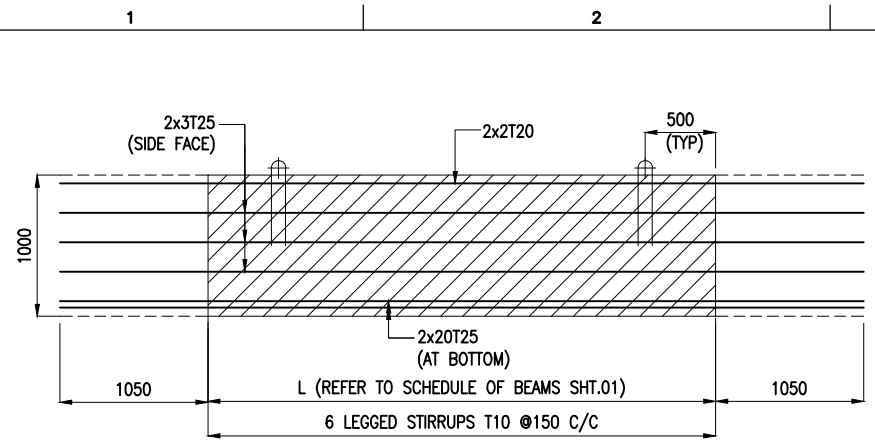


TYPICAL LONGITUDINAL SECTION
(SCALE 1:80)

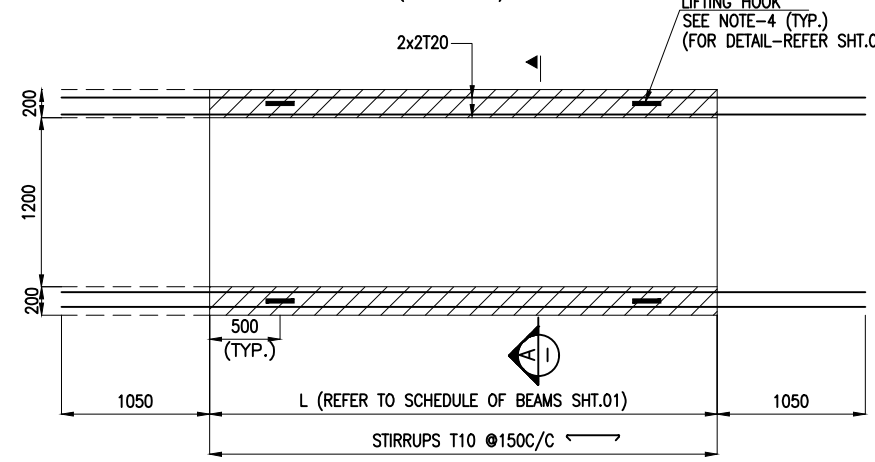
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

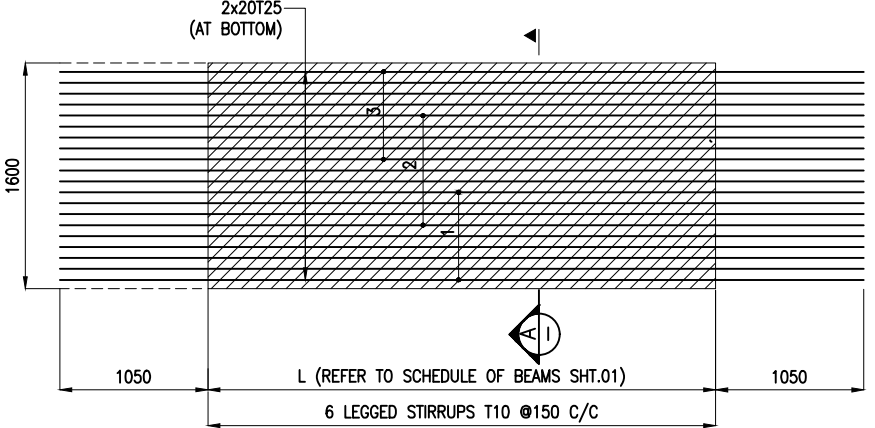
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 08 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-08			DATE: 20.05.26	REV: B



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

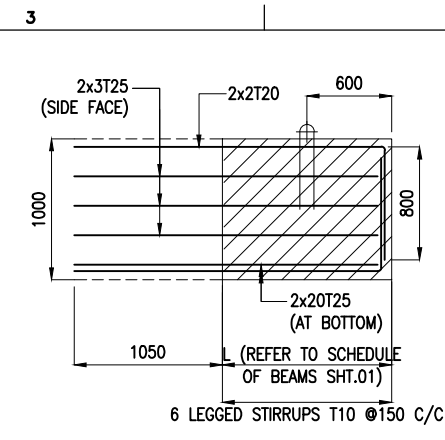


TOP VIEW OF TROUGH
(SCALE 1:45)

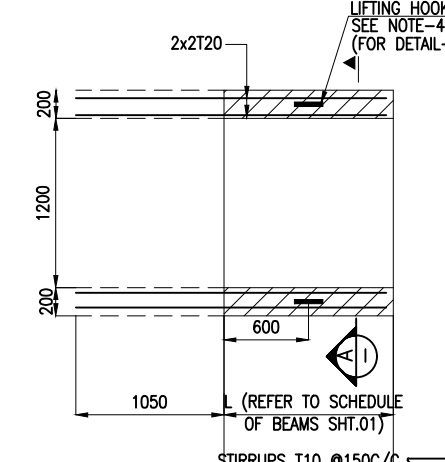


BOTTOM VIEW OF TROUGH
(SCALE 1:45)

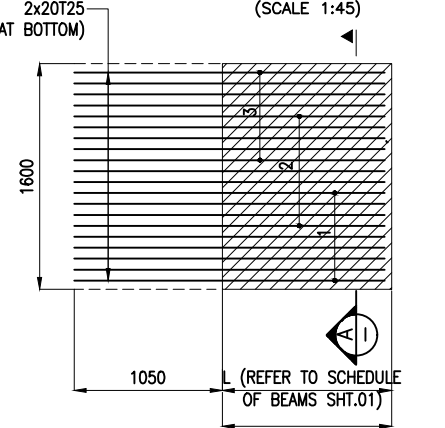
REINFORCEMENT DETAILS FOR BEAMS: LB1 TO LB4 &
LB13 TO LB16 & 21,27,28,29 & TB1



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

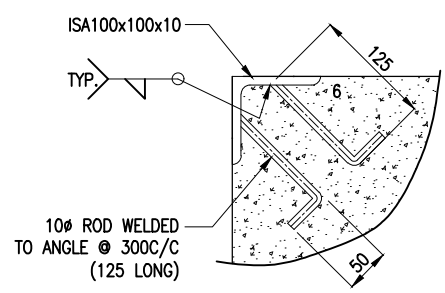


TOP VIEW OF TROUGH
(SCALE 1:45)

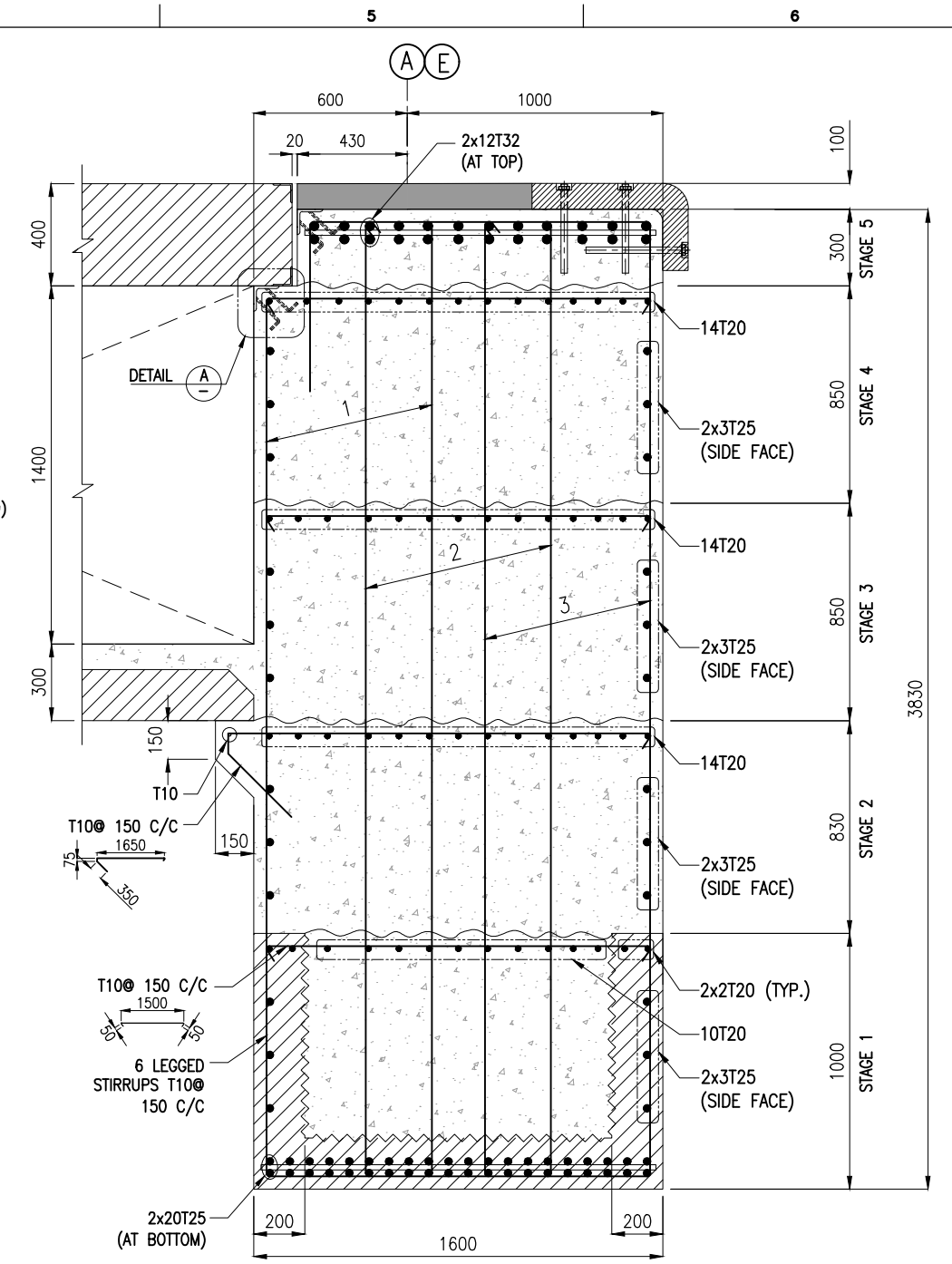


BOTTOM VIEW OF TROUGH
(SCALE 1:45)

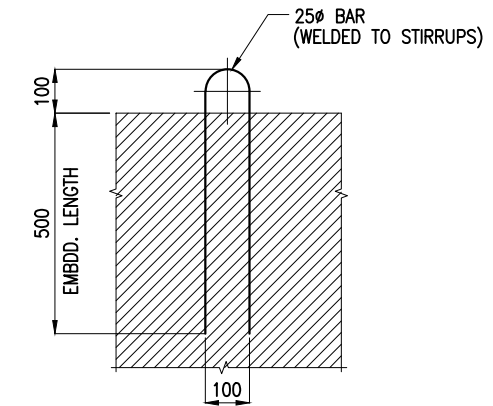
REINFORCEMENT DETAILS FOR BEAMS: LB38



DETAIL (SCALE 1:8)



SECTION A-E
(SCALE 1:25)

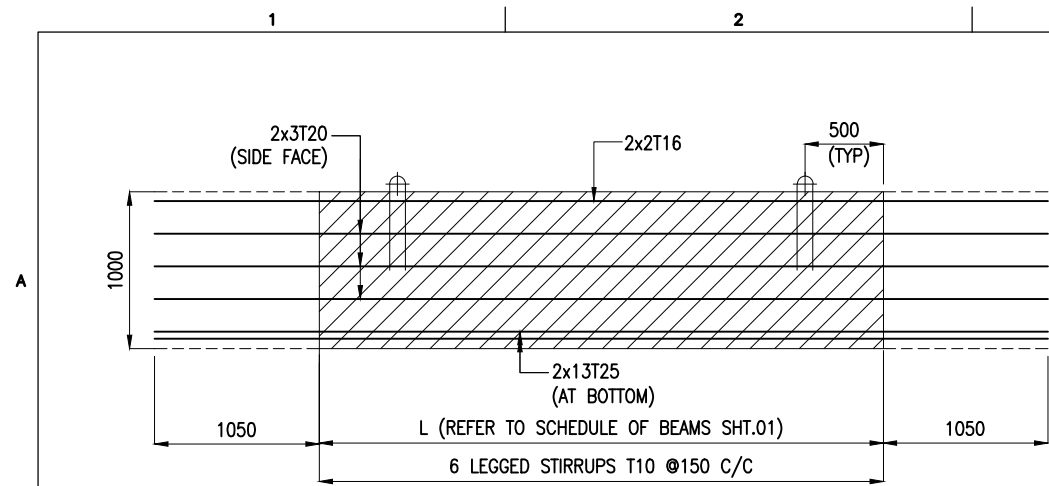


DETAIL OF LIFTING HOOK
(SCALE 1:15)

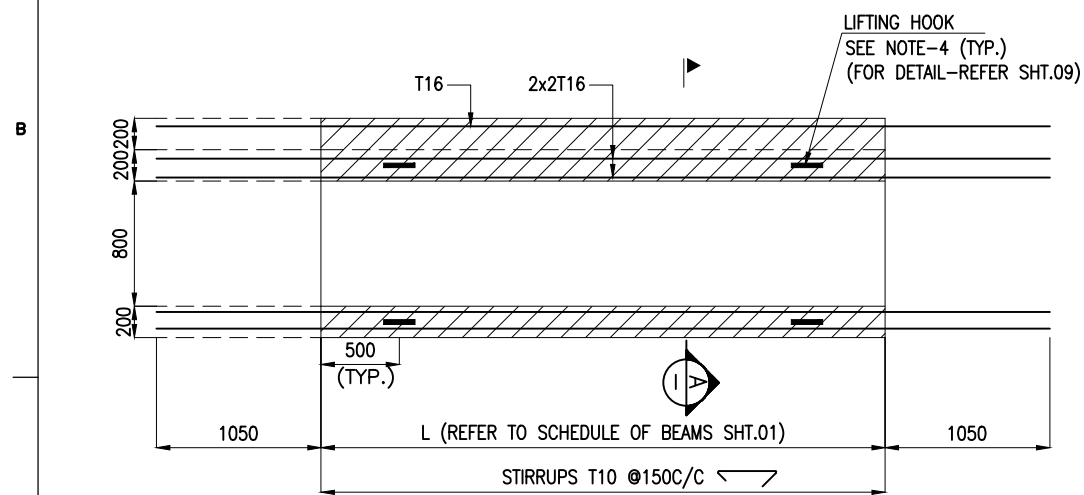
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.
- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

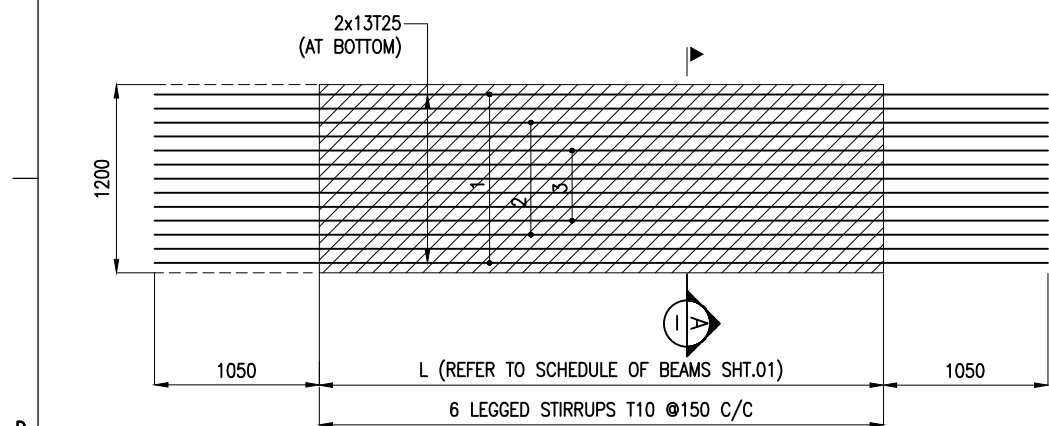
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 09 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-09		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

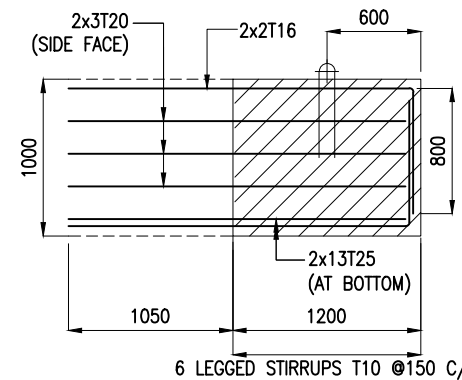


TOP VIEW OF TROUGH
(SCALE 1:45)

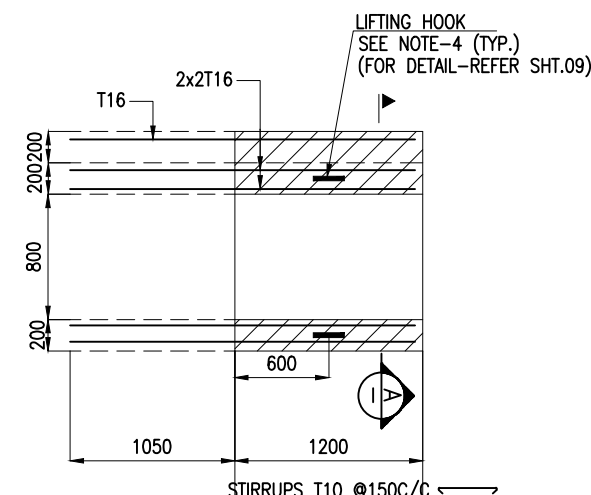


BOTTOM VIEW OF TROUGH
(SCALE 1:45)

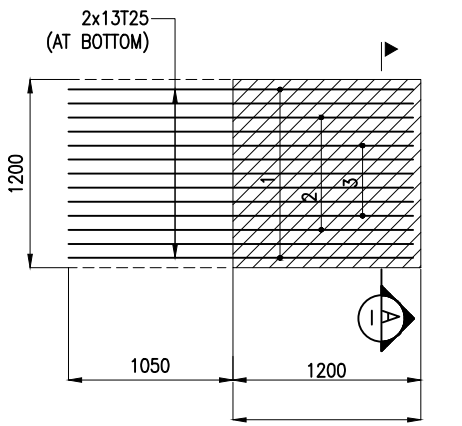
REINFORCEMENT DETAILS FOR BEAMS: LB5 TO LB8 & 17,18,22,23 & 30 TO 32



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

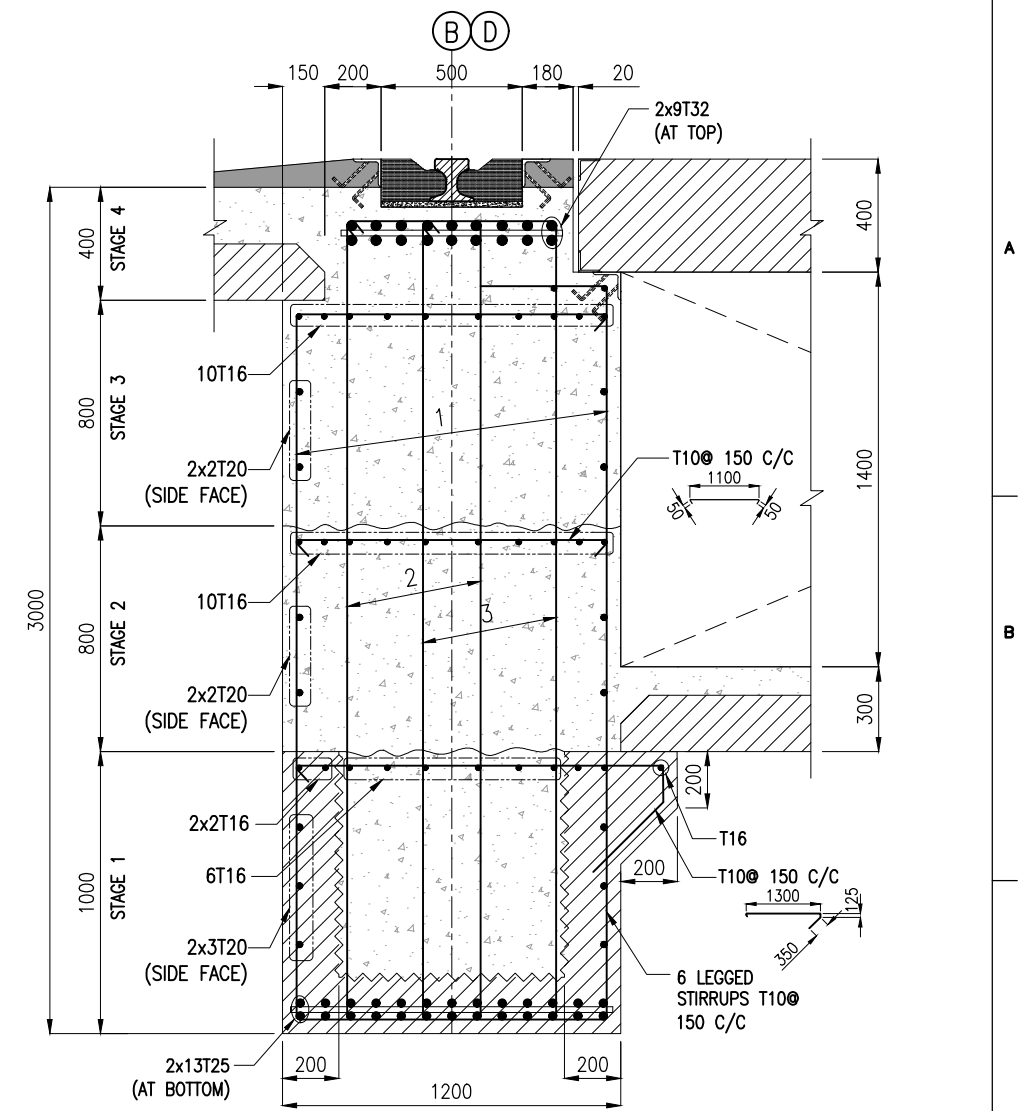


TOP VIEW OF TROUGH
(SCALE 1:45)



BOTTOM VIEW OF TROUGH
(SCALE 1:45)



REINFORCEMENT DETAILS FOR BEAMS: LB39

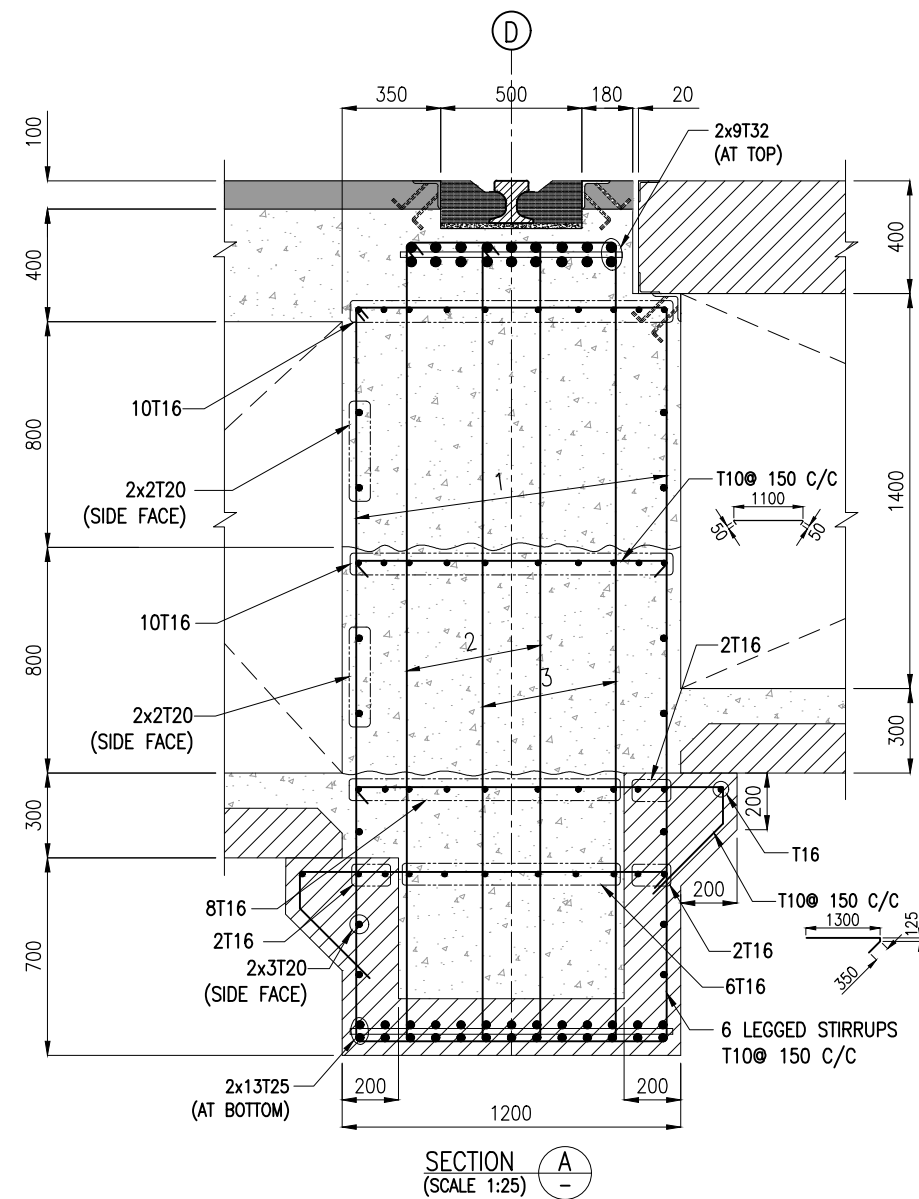
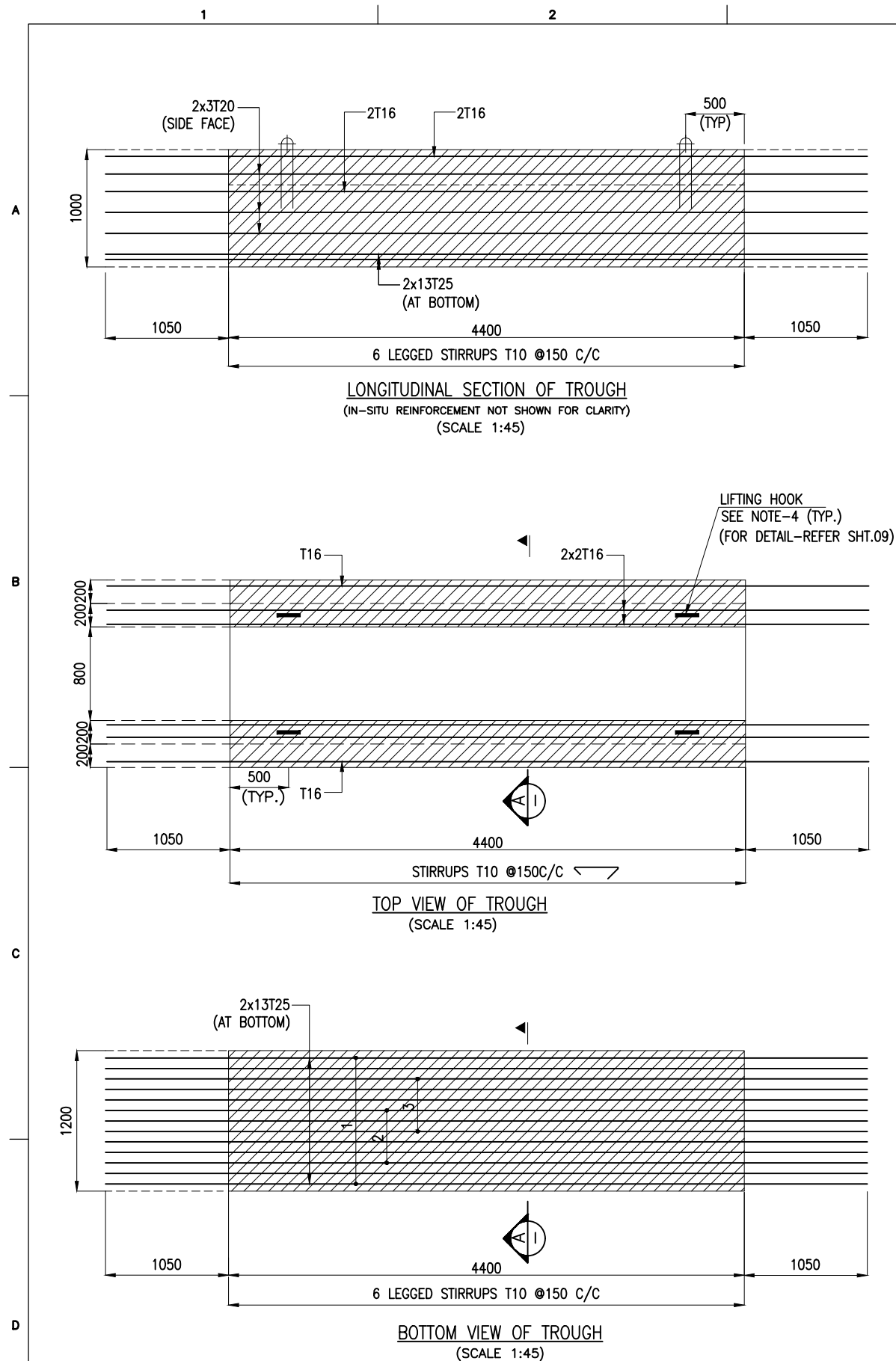


SECTION A-A
(SCALE 1:25)

NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
5. THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

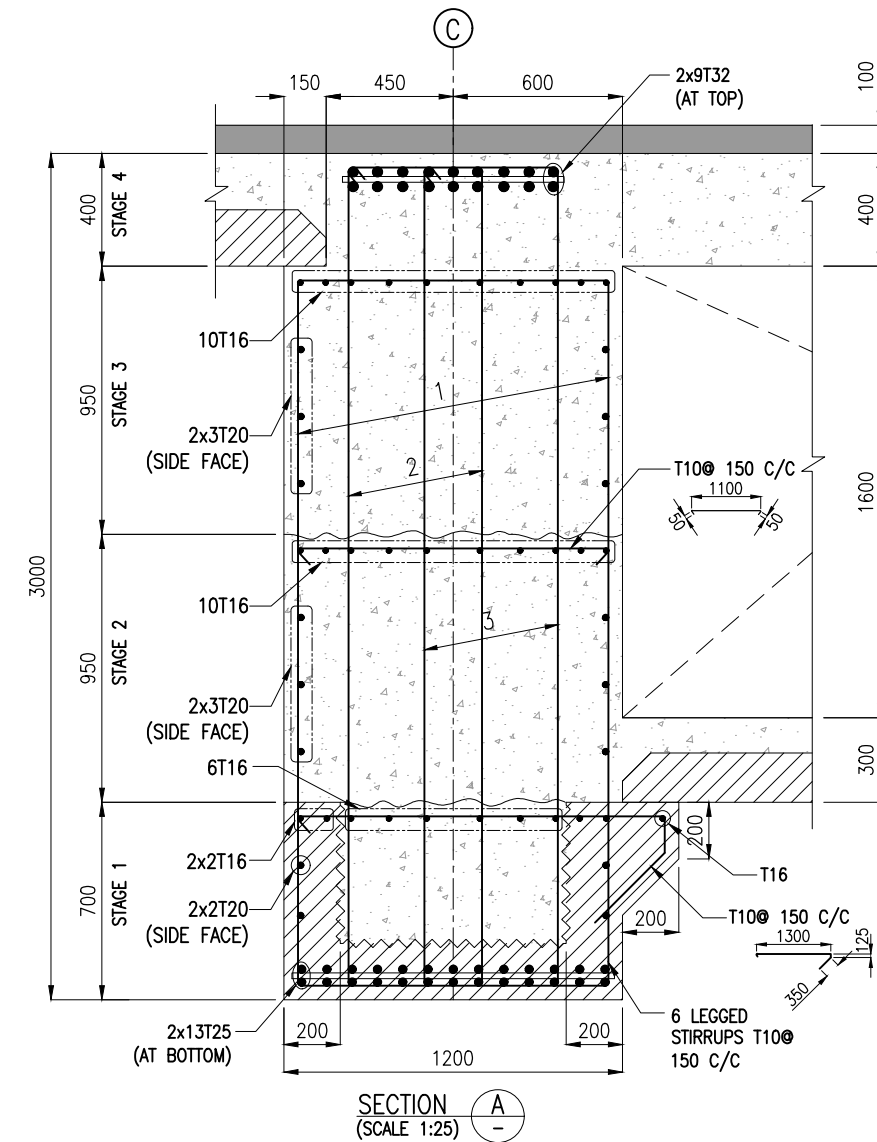
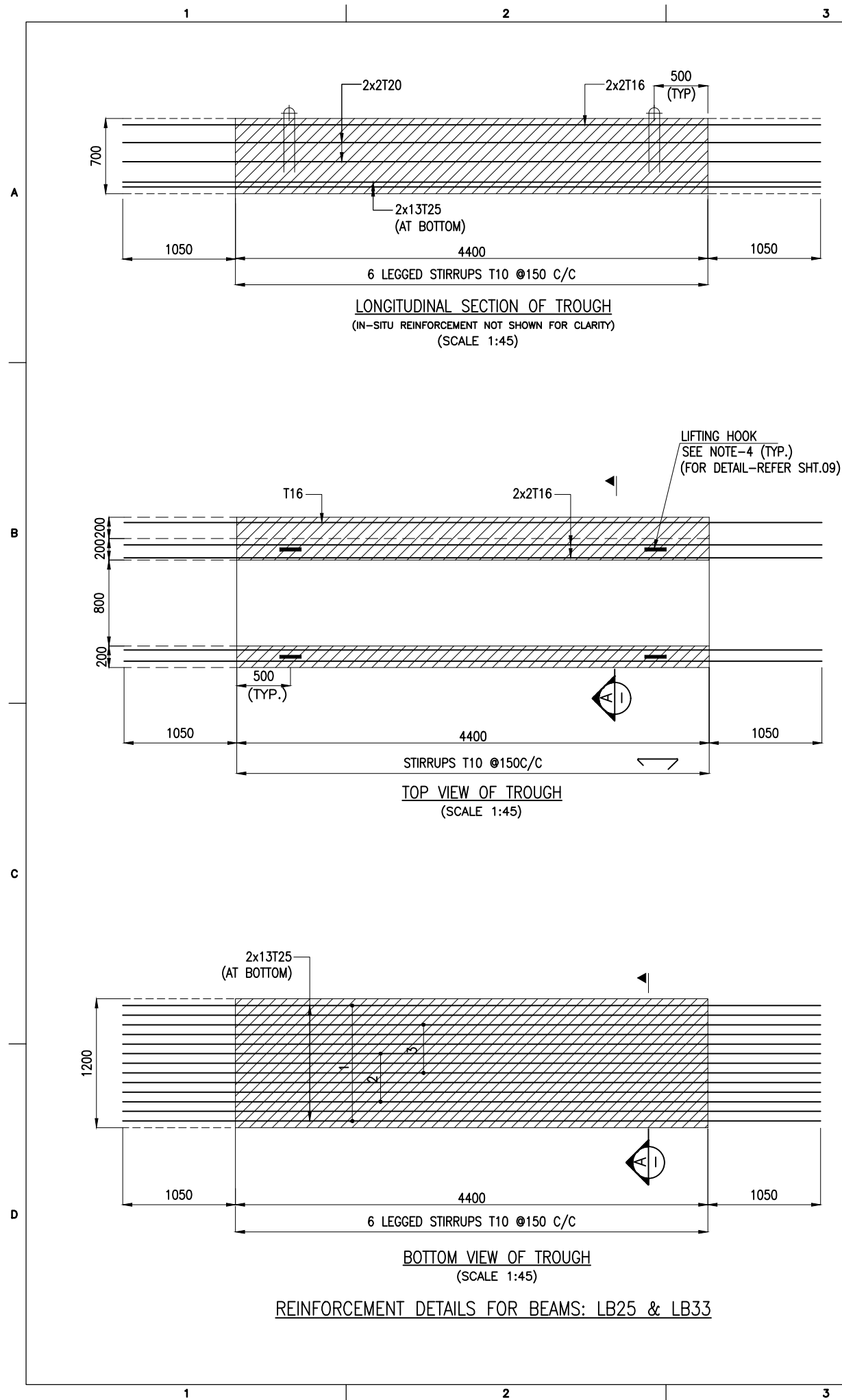
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-10		DATE: 20.05.26		REV: B



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
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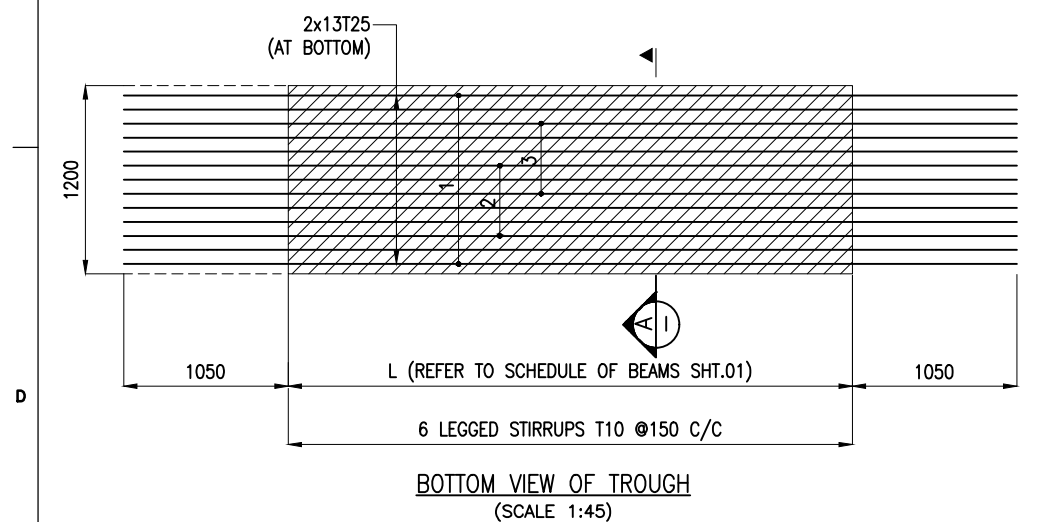
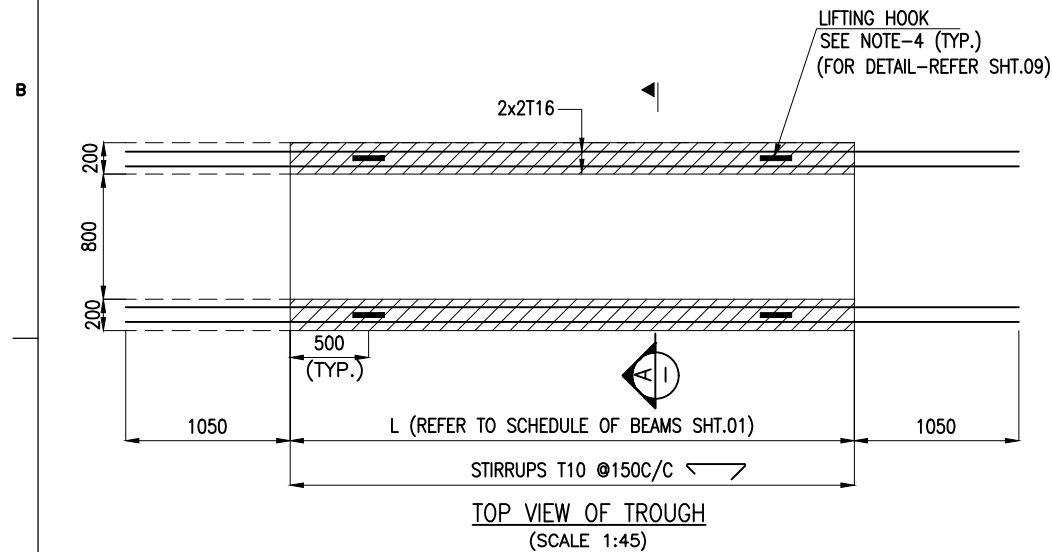
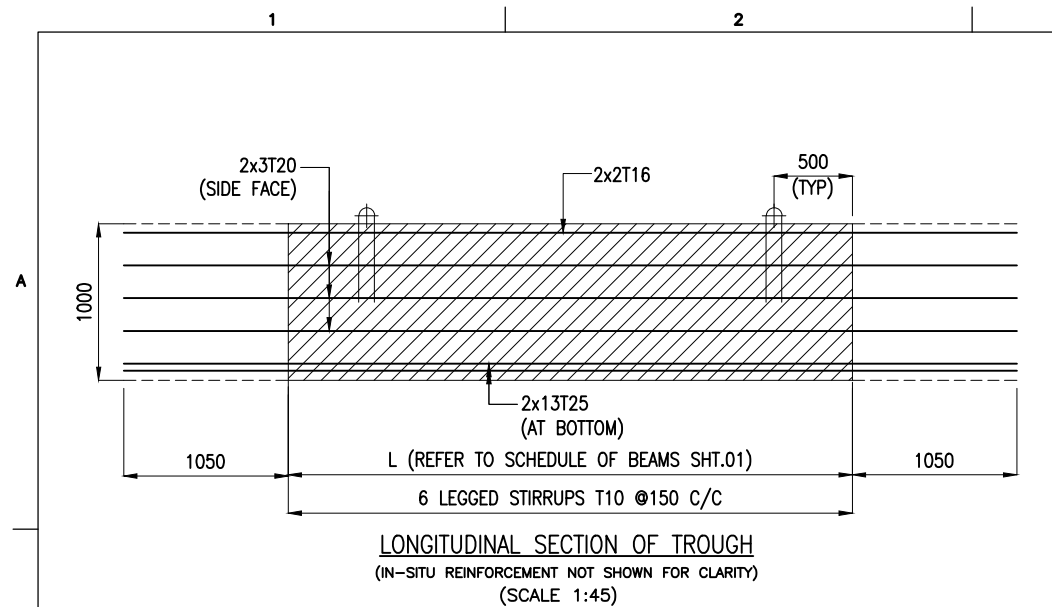
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 11 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-11		DATE: 20.05.26		REV: B



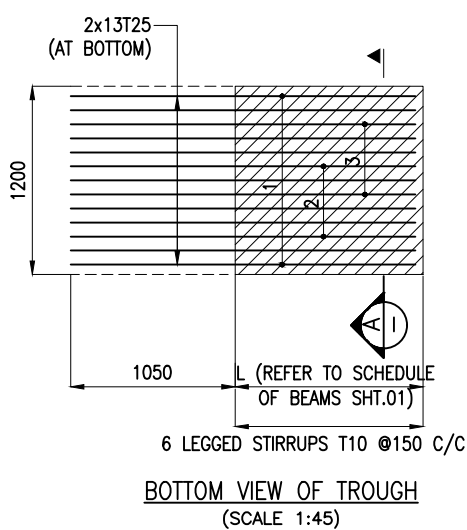
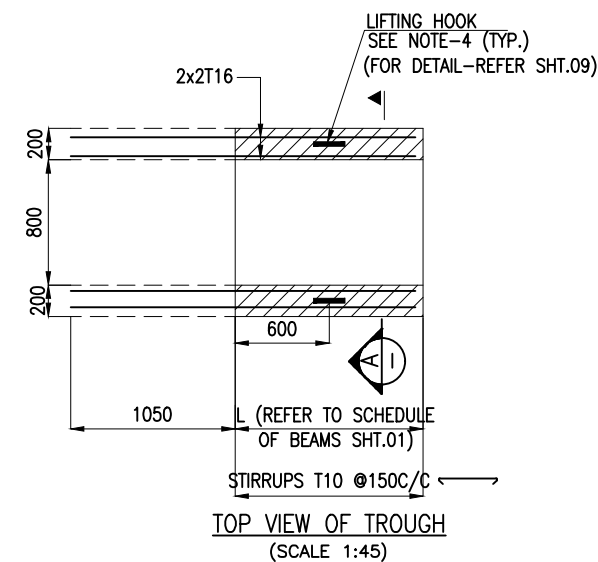
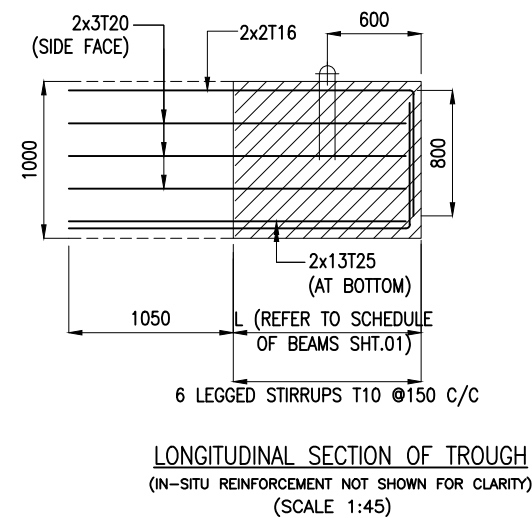
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
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- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

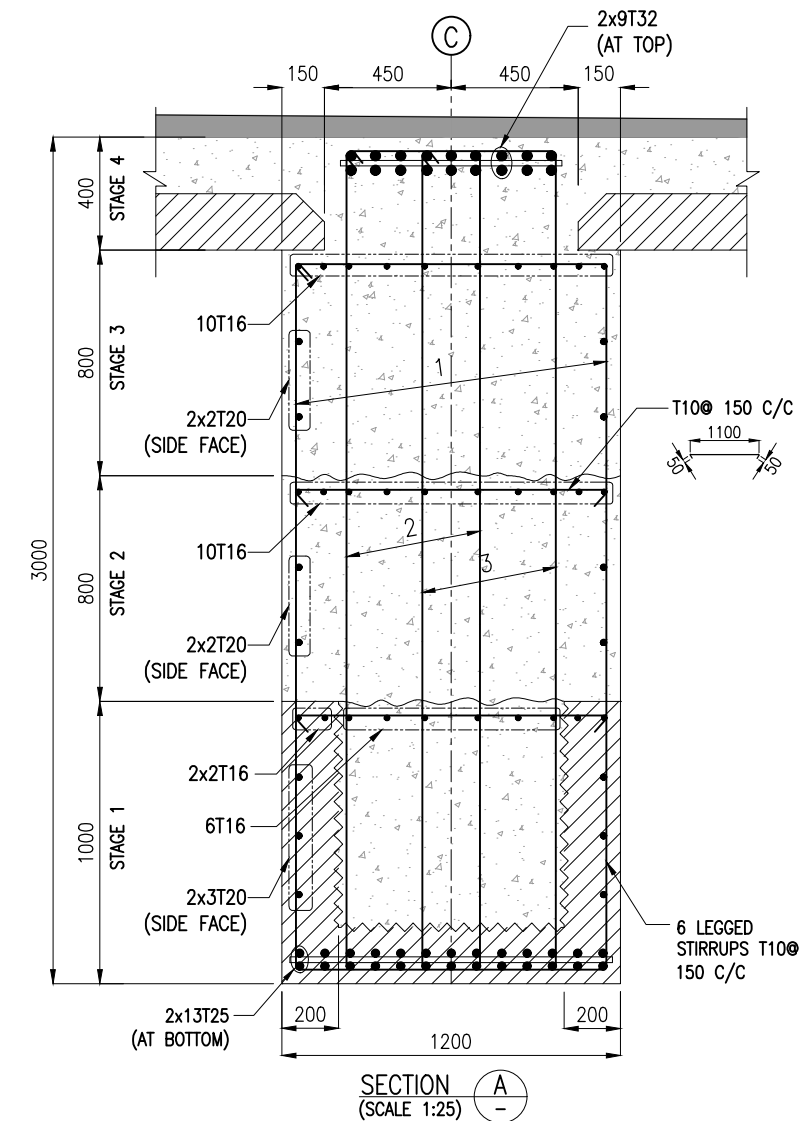
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 12 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-12		DATE: 20.05.26		REV: B



REINFORCEMENT DETAILS FOR BEAMS: LB9 TO LB12 & 19,20,24,34,35,36





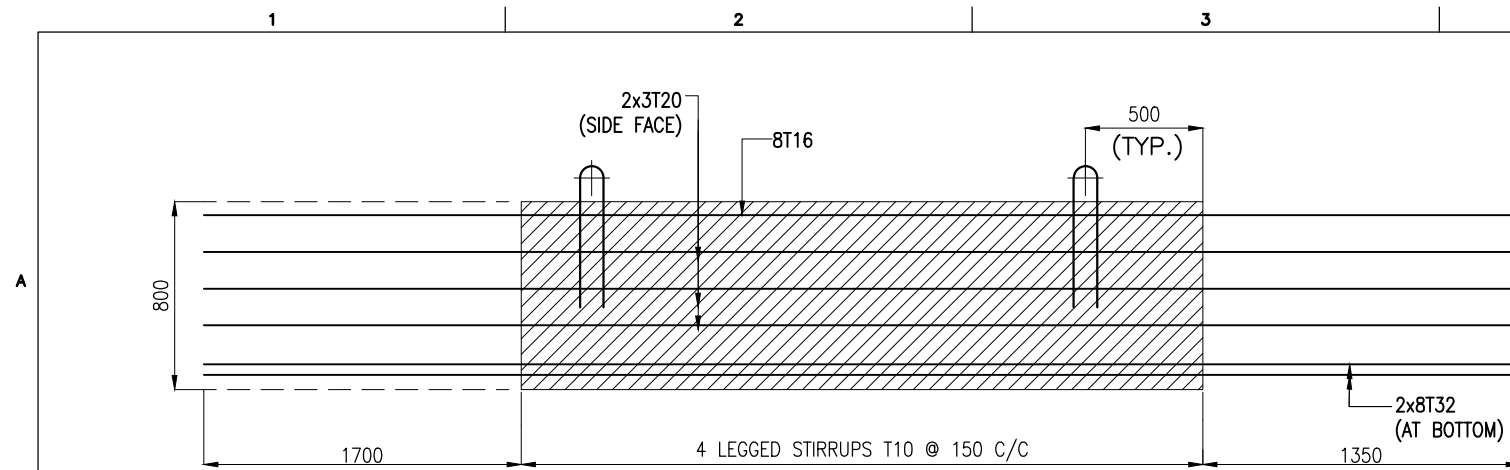
REINFORCEMENT DETAILS FOR BEAMS: LB40



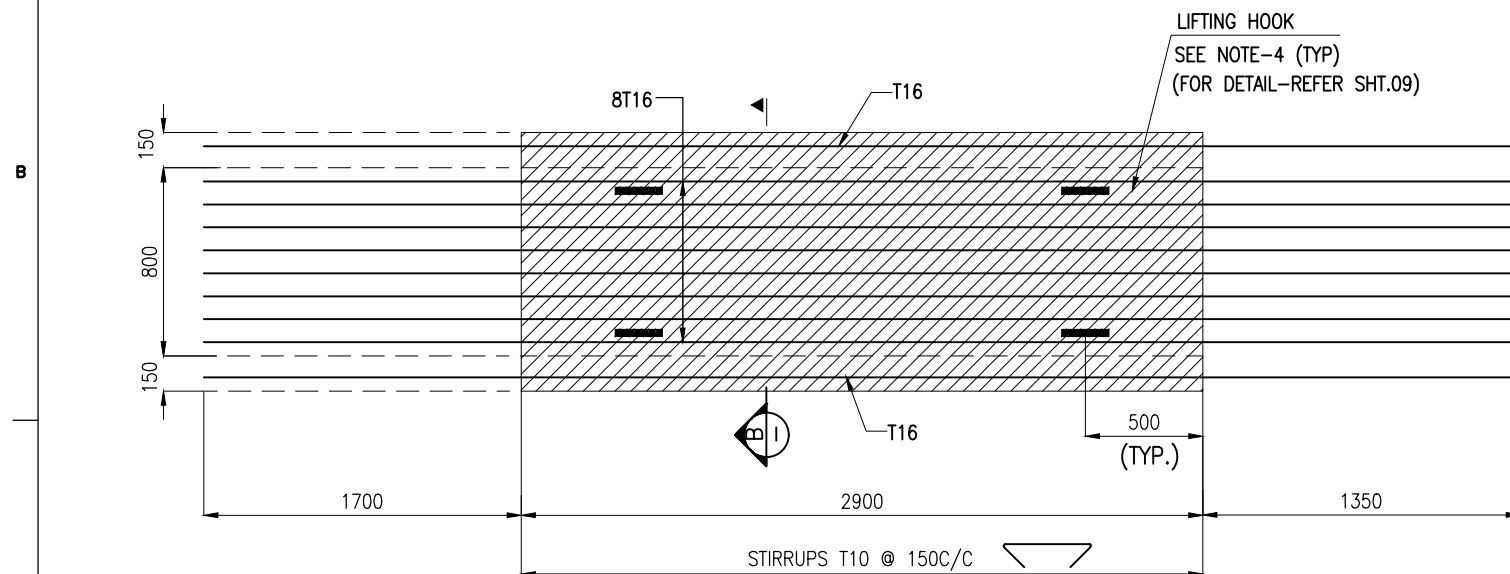
NOTES:

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- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
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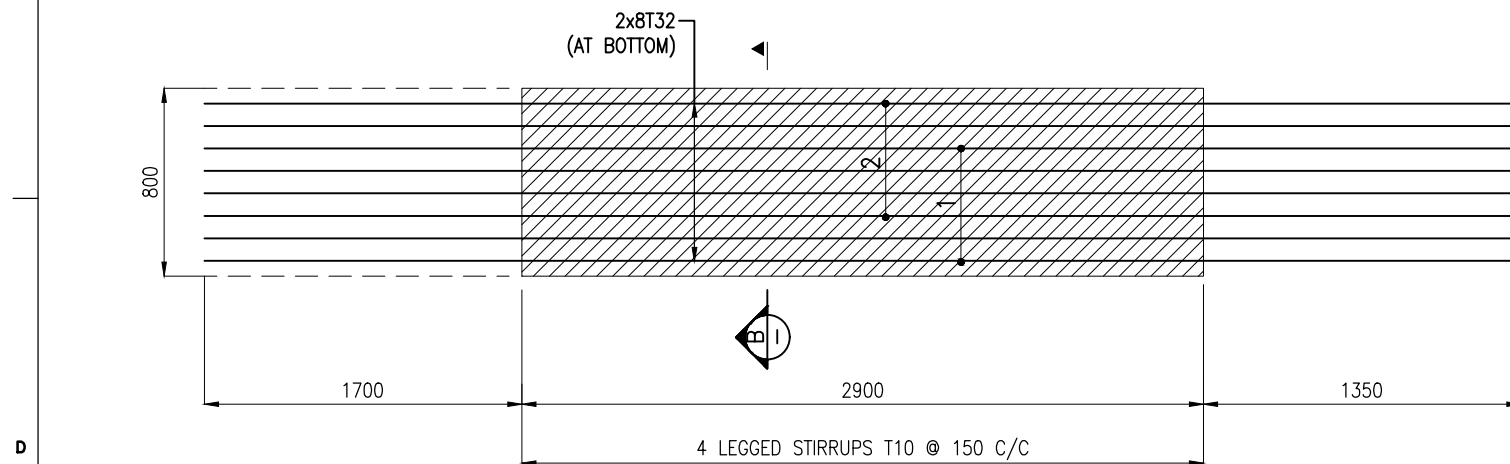
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 13 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-13		DATE: 20.05.26	REV: A	



LONGITUDINAL SECTION OF PRECAST BEAM
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:30)

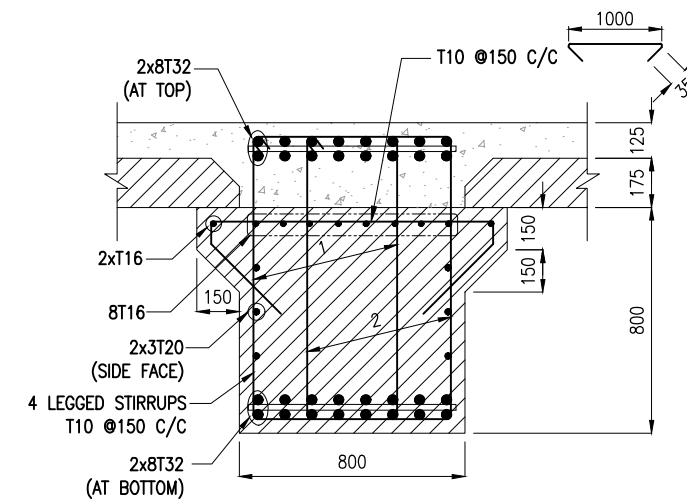


TOP VIEW OF PRECAST BEAM
(SCALE 1:30)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:30)



REINFORCEMENT DETAILS FOR BEAMS:TB2

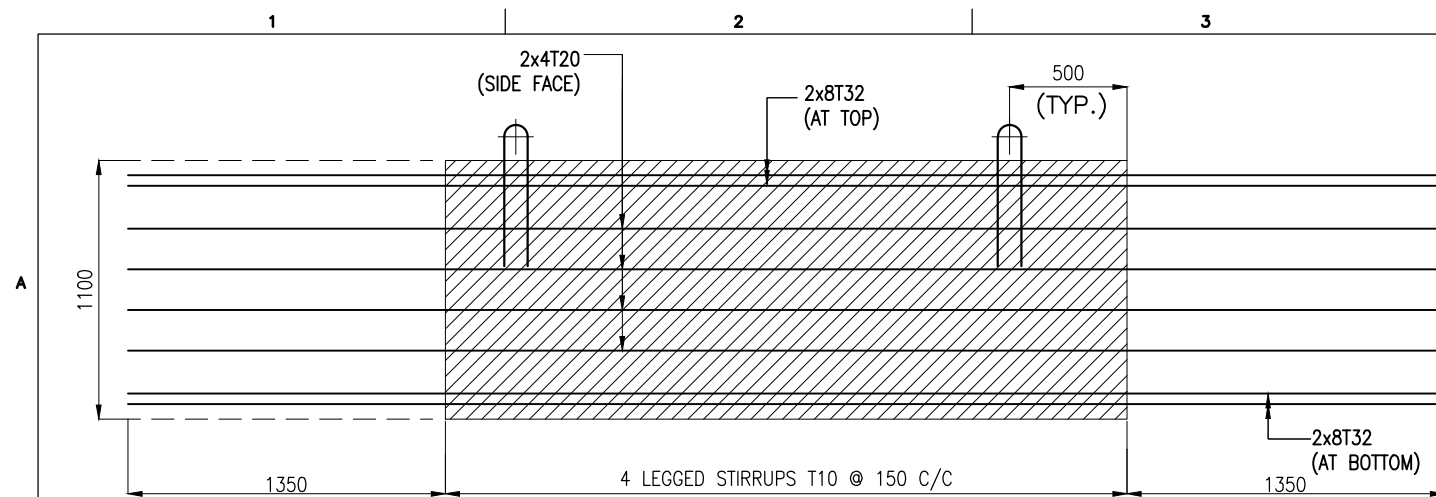


SECTION B
(SCALE 1:25)

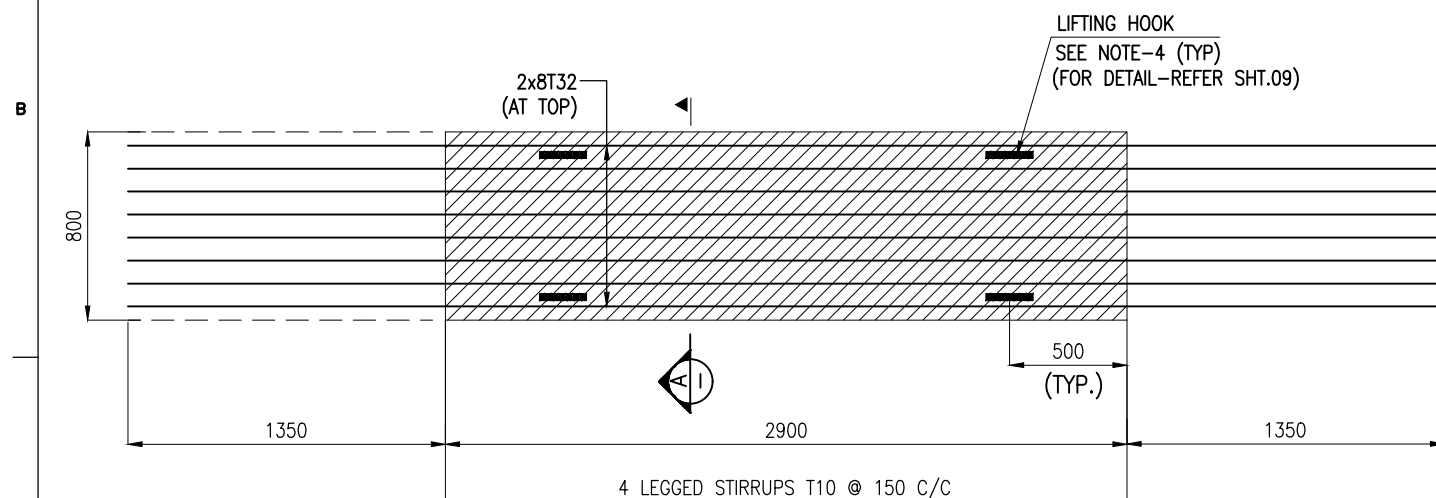
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
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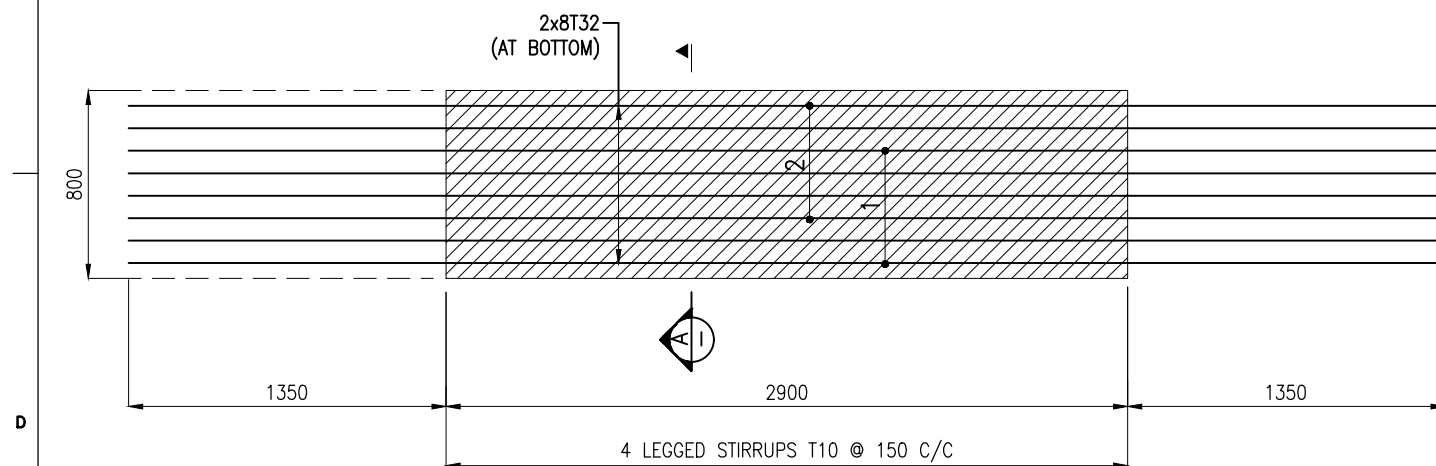
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 14 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-14		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF PRECAST BEAM
(SCALE 1:30)

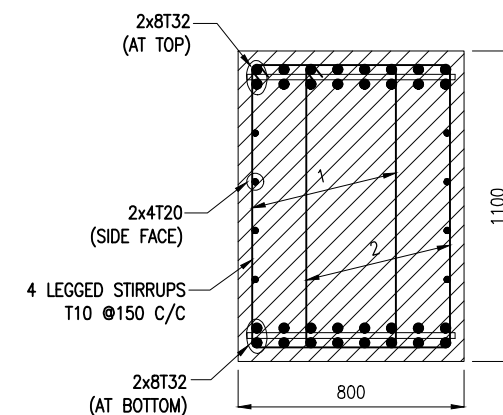


TOP VIEW OF PRECAST BEAM
(SCALE 1:30)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:30)



REINFORCEMENT DETAILS FOR BEAMS: TB3

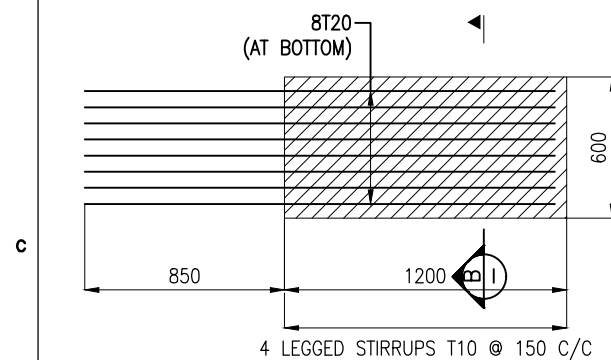
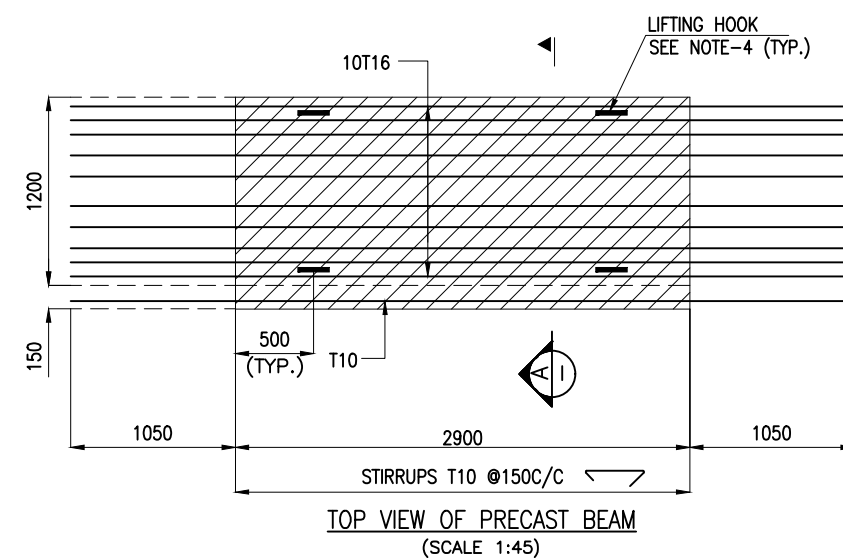
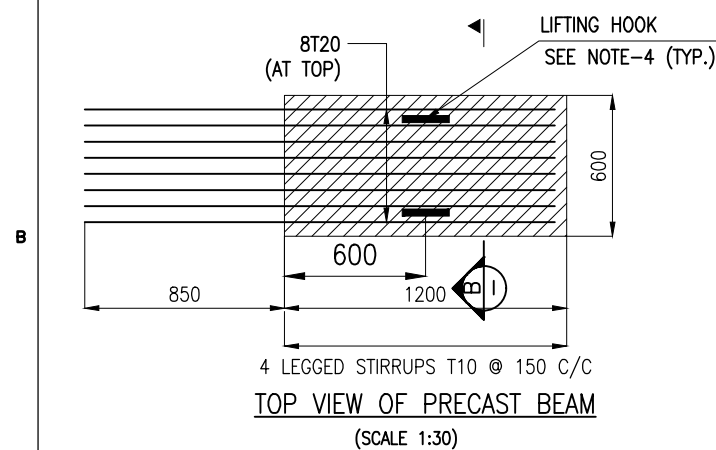
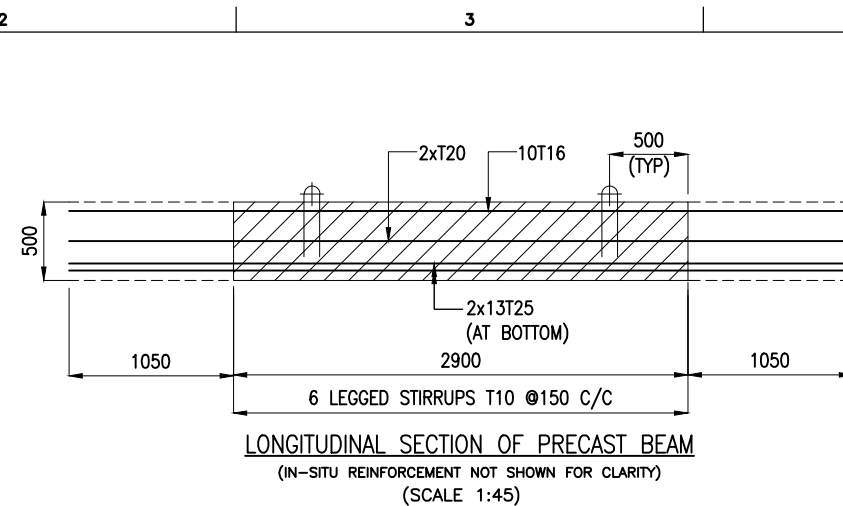
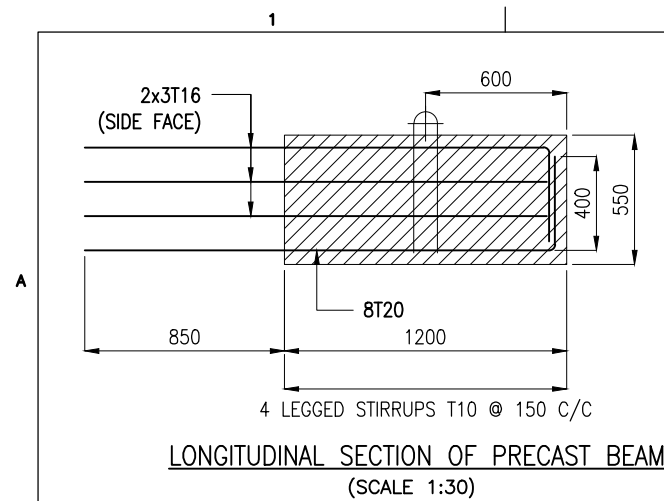


SECTION A-A
(SCALE 1:25)

NOTES:

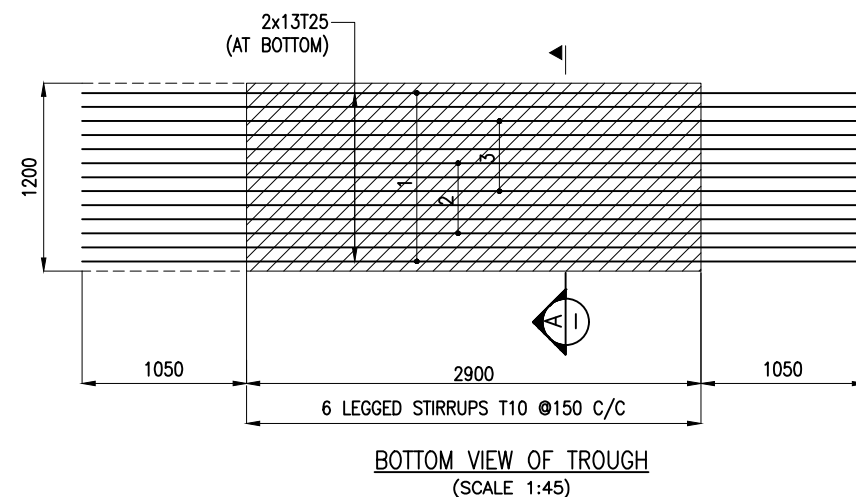
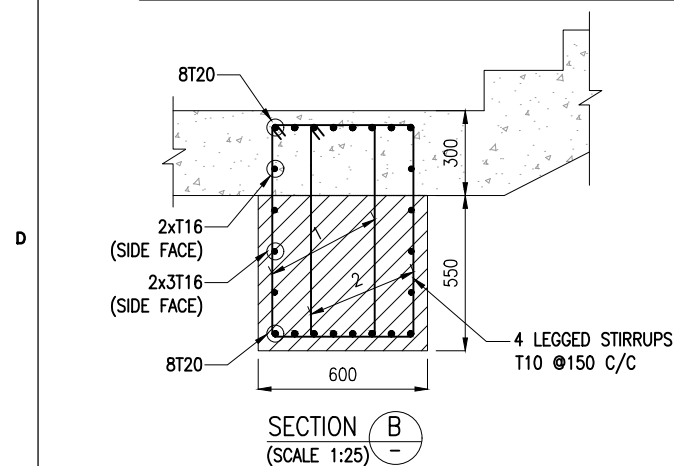
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- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.

B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 15 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-15		DATE: 20.05.26		REV: B

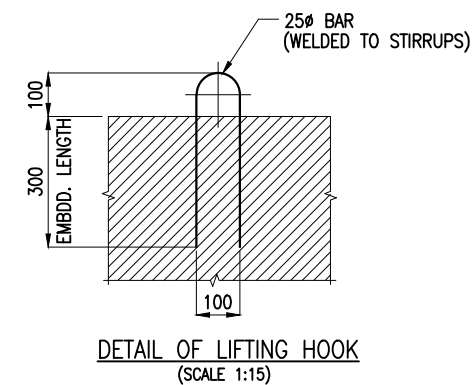


BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:30)

REINFORCEMENT DETAILS FOR BEAMS: TB4

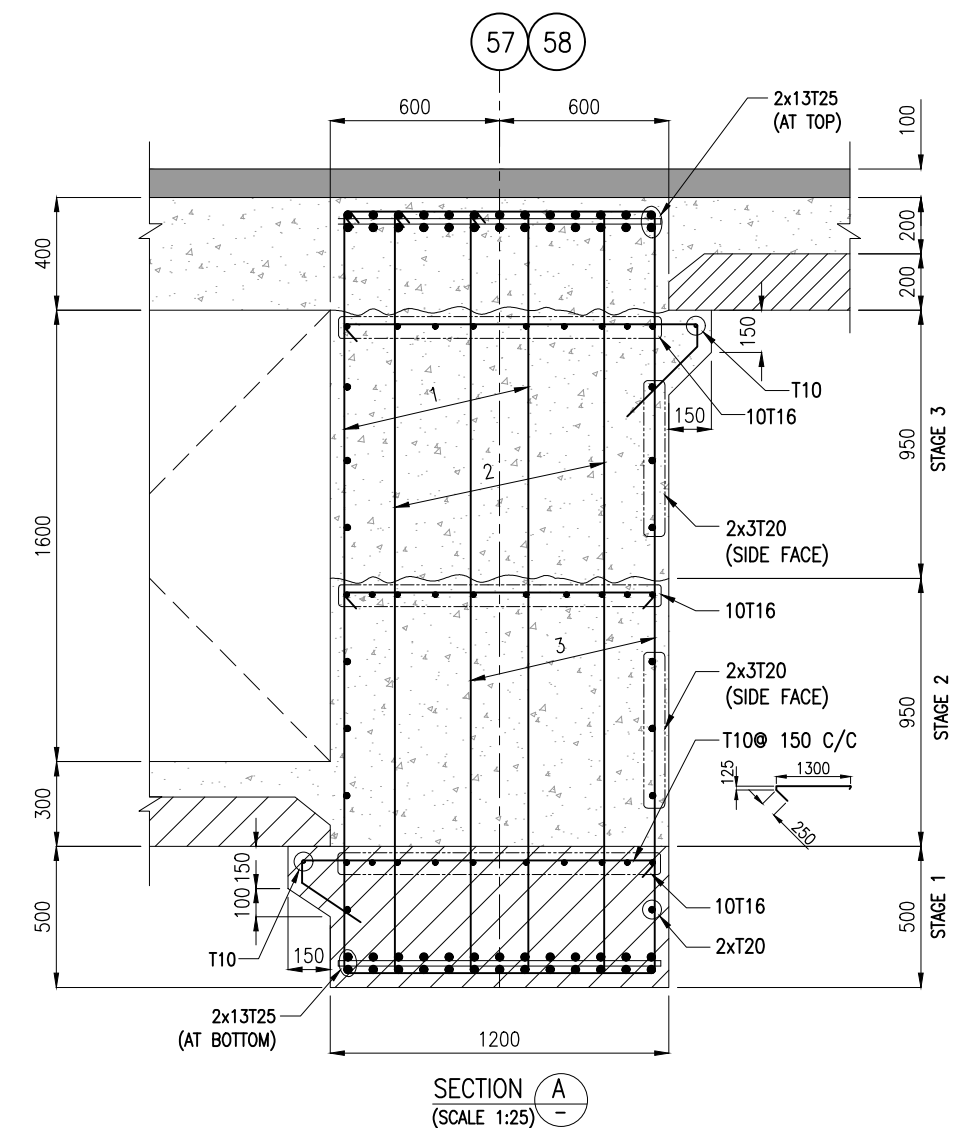


REINFORCEMENT DETAILS FOR BEAMS: TB5

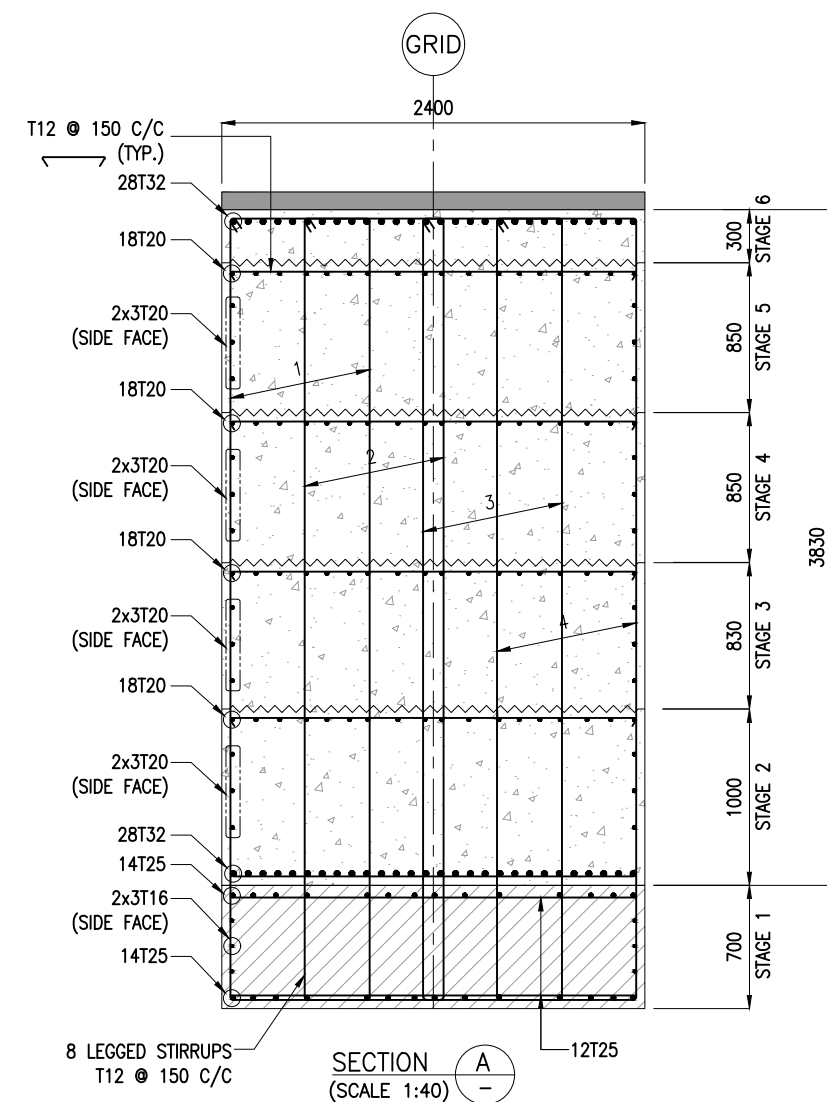
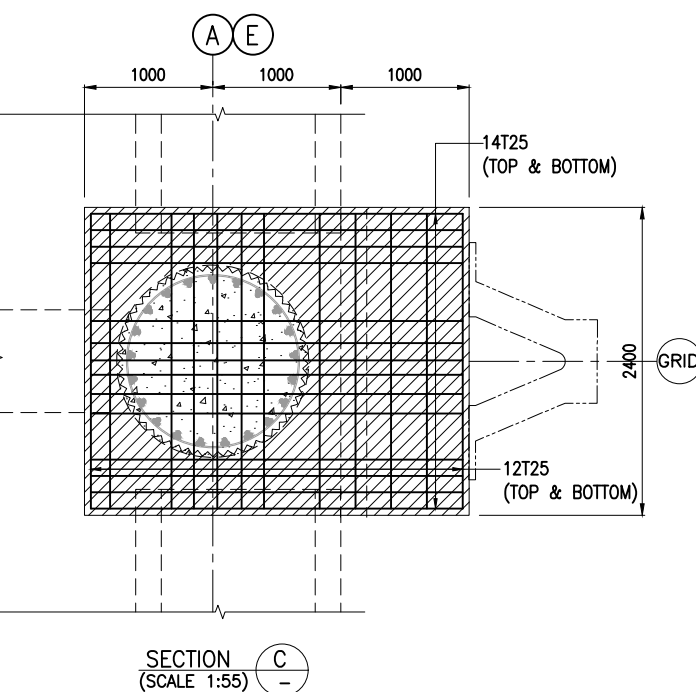
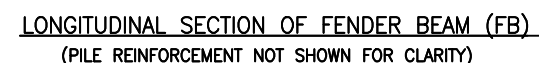


NOTES:

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4. PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.





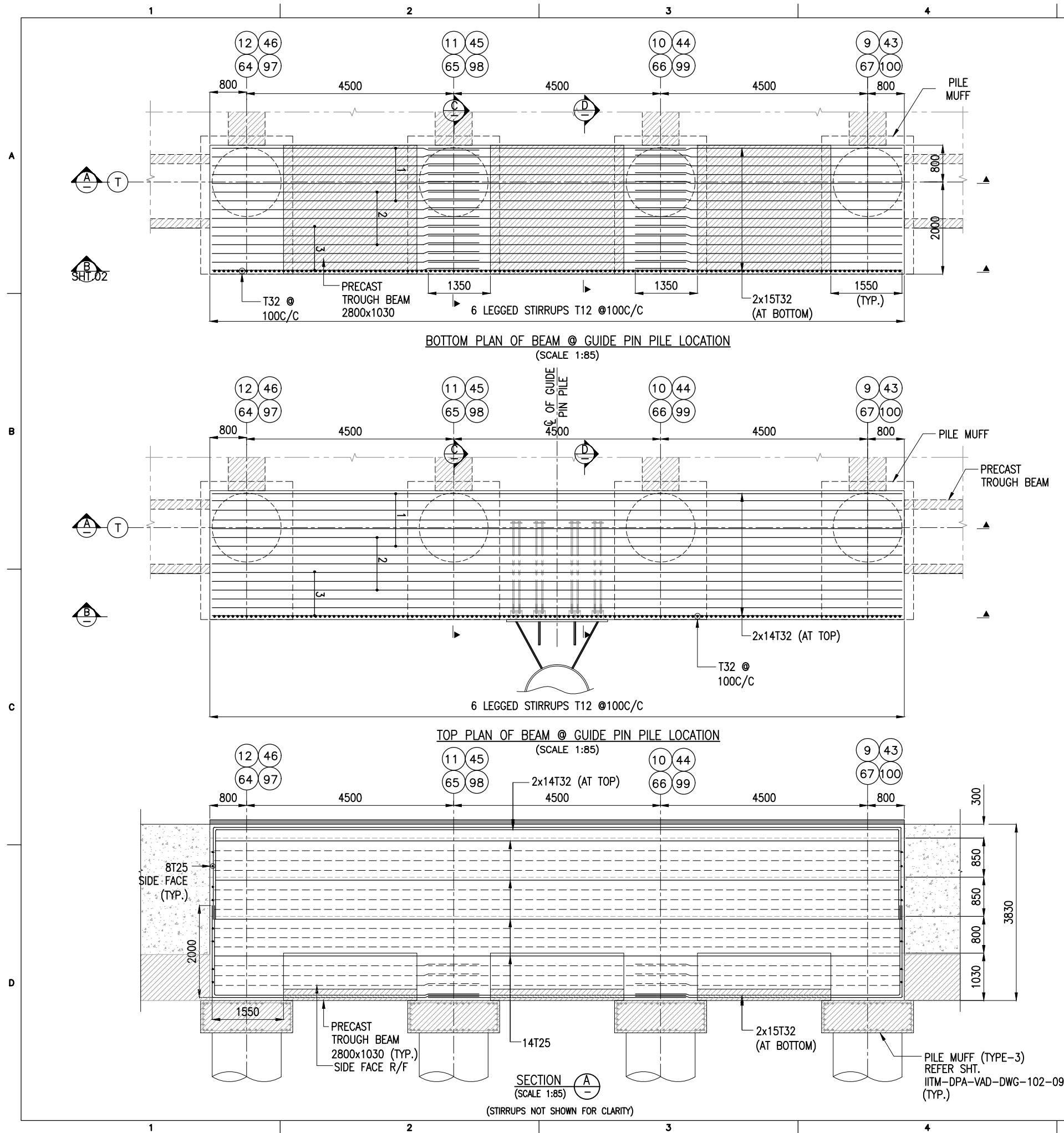
B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 16 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-16			DATE: 20.05.26	REV: B



NOTES:

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B	20.05.26	ISSUED FOR TENDER	GV	SN
A	23.05.24	ISSUED FOR REVIEW	GV	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
<p>CONSULTANT:</p>  <p>PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI</p>				
<p>OWNER:</p>  <p>DEENDAYAL PORT AUTHORITY</p>				
<p>PROJECT:</p> <p>DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.</p>				
<p>TITLE:</p> <p>OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 17 OF 19)</p>				
DRAWING NO. IITM-DPA-VAD-DWG-103-17			DATE: 20.05.26	REV: B

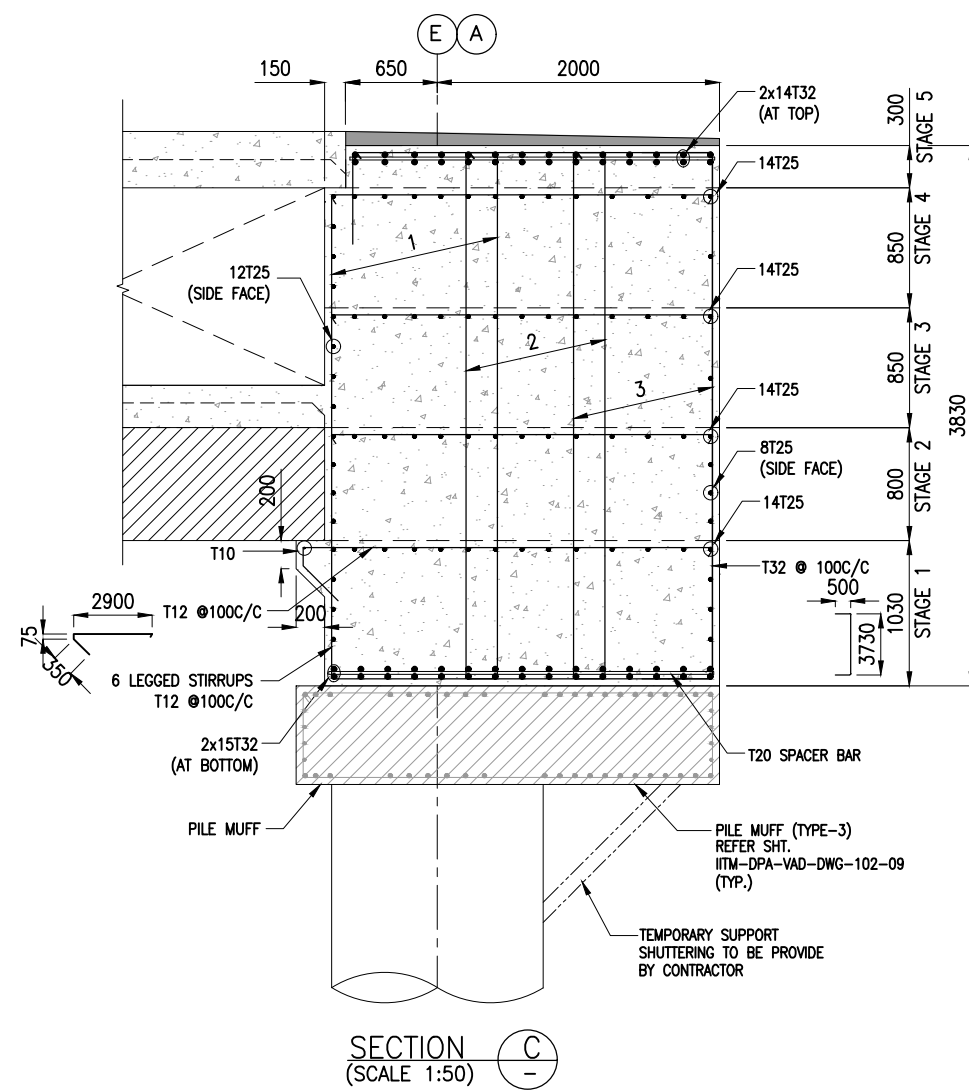
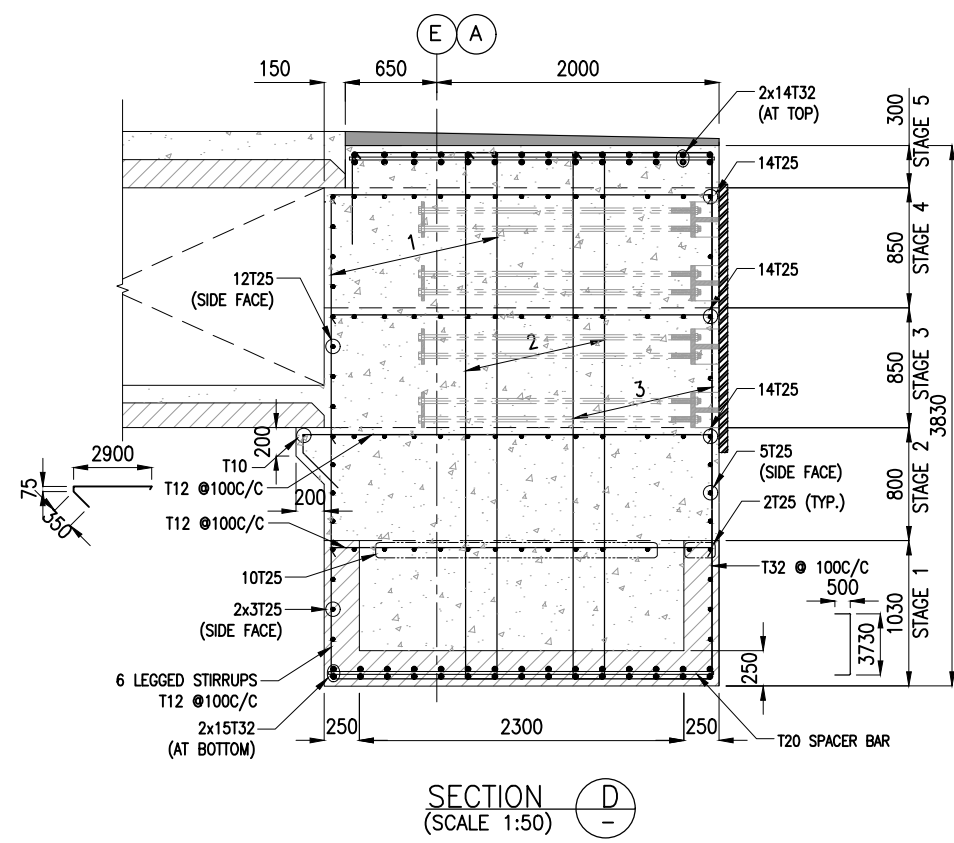
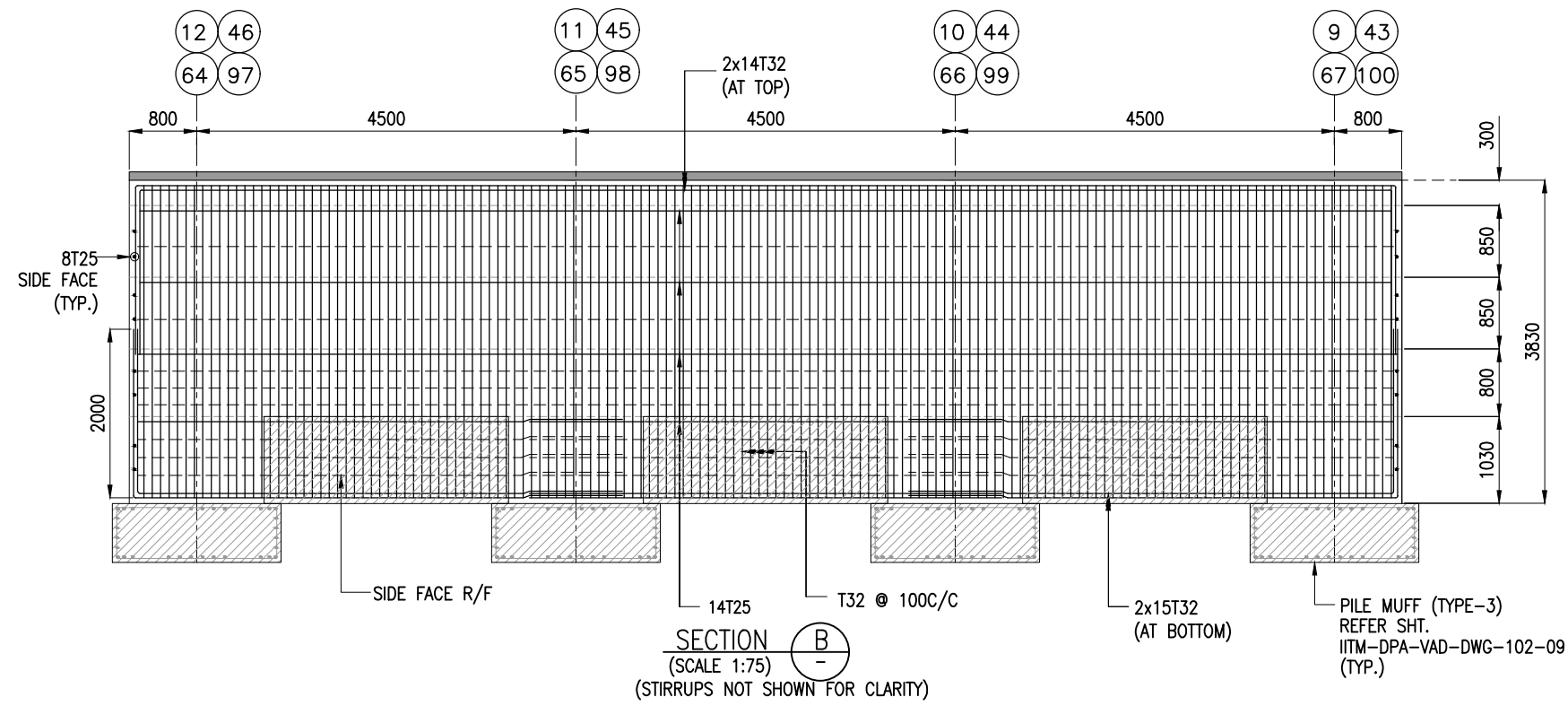


NOTES:

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B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 18 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-18		DATE: 20.05.26		REV: B

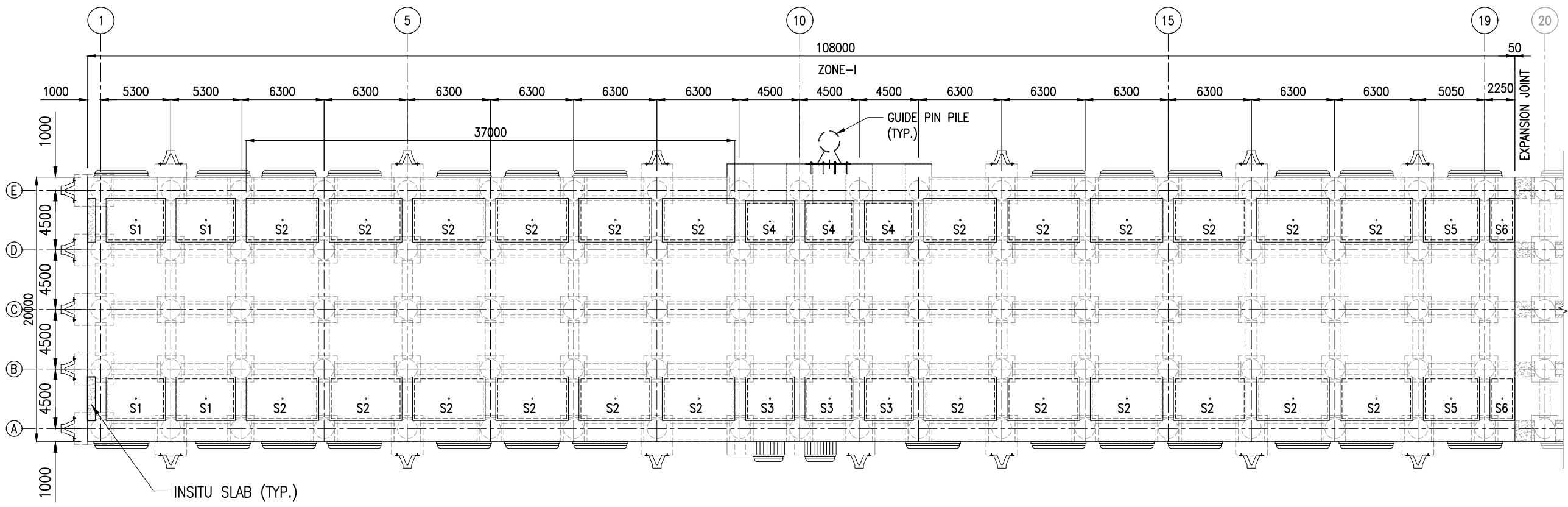
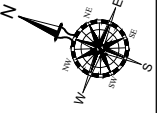
1 2 3 4 5 6



- NOTES:**
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A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 19 OF 19)				
DRAWING NO. IITM-DPA-VAD-DWG-103-19		DATE: 20.05.26		REV: B

1 2 3 4 5 6





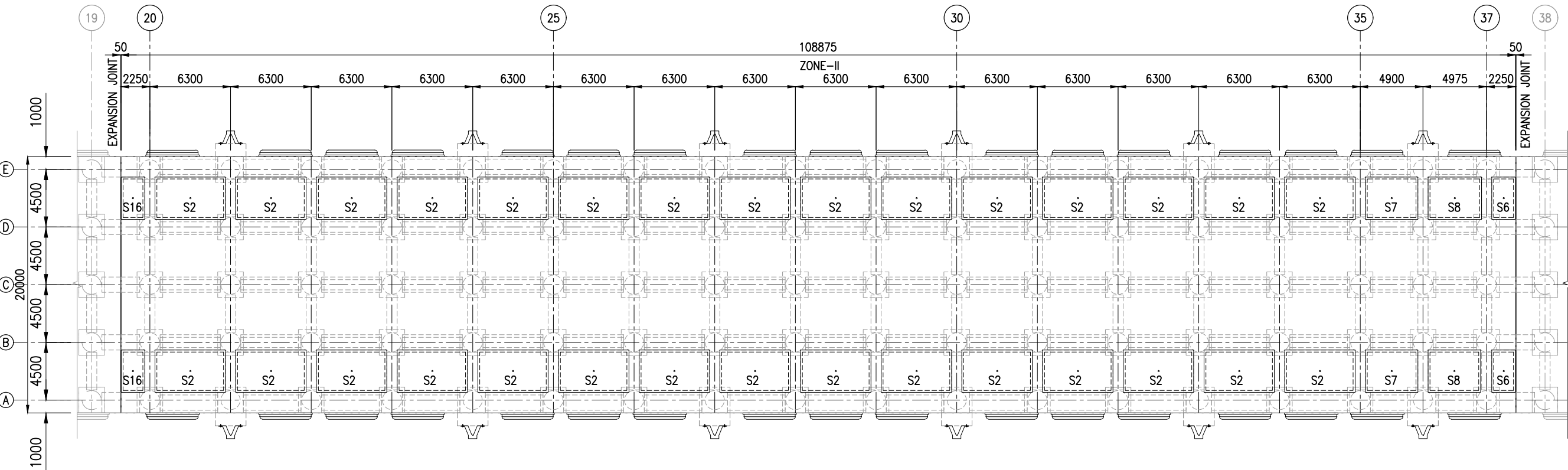
LAYOUT AND JETTY FACILITIES EL(+) 6.53m
(OUTFITTING JETTY-01)
ZONE-I
(SCALE 1:325)

PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
S1	4500	3300	175	6.50	4
S2	5500	3300	175	7.94	24
S3	3700	3300	175	5.34	3
S4	3700	3100	175	5.02	3
S5	4250	3300	175	6.13	2
S6	1850	3300	175	2.67	2

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B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 1 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-01			DATE: 20.05.26	REV: B



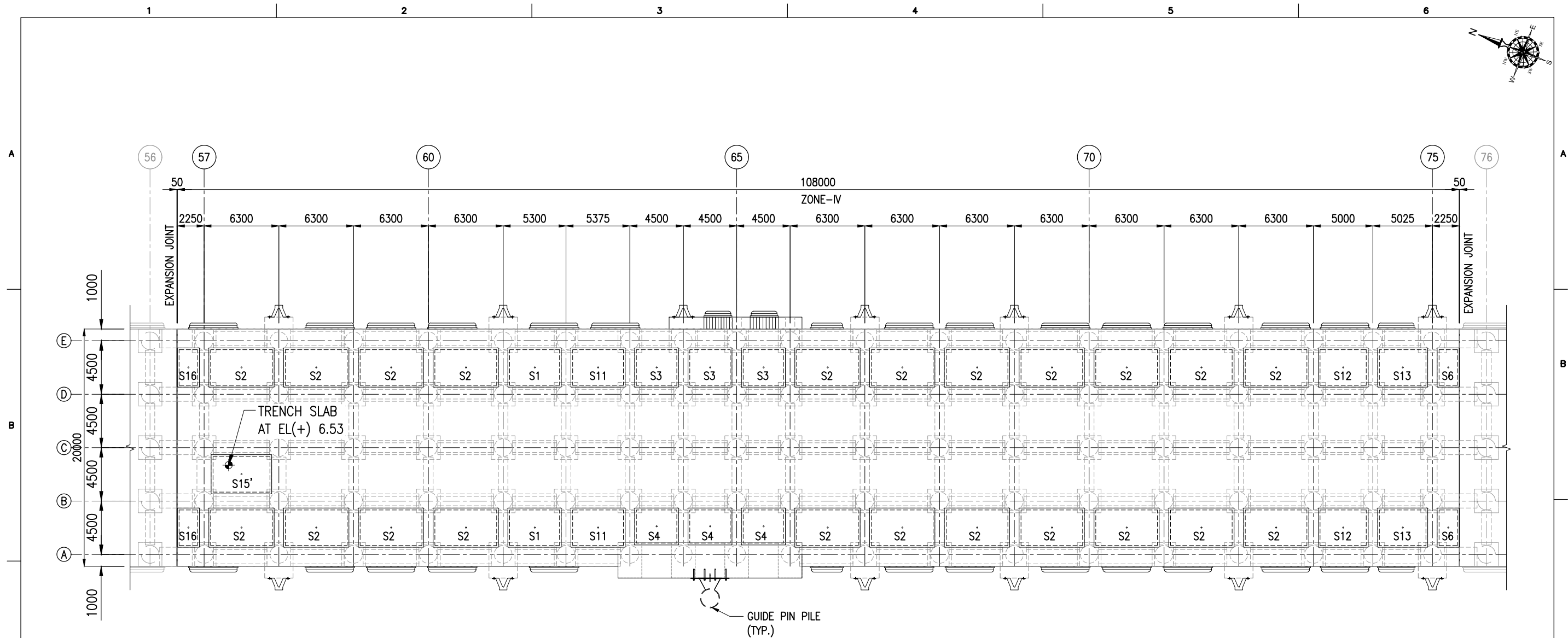
LAYOUT AND JETTY FACILITIES EL(+) 6.53m
(OUTFITTING JETTY-01)
ZONE-II
(SCALE 1:325)

PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
S2	5500	3300	175	7.94	30
S6	1850	3300	175	2.67	2
S7	4100	3300	175	5.92	4
S8	4175	3300	175	6.03	2
S16	1850	3300	175	2.67	2

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH LAYOUT AND RC DETAILS (SHEET 2 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-02			DATE: 20.05.26	REV: B





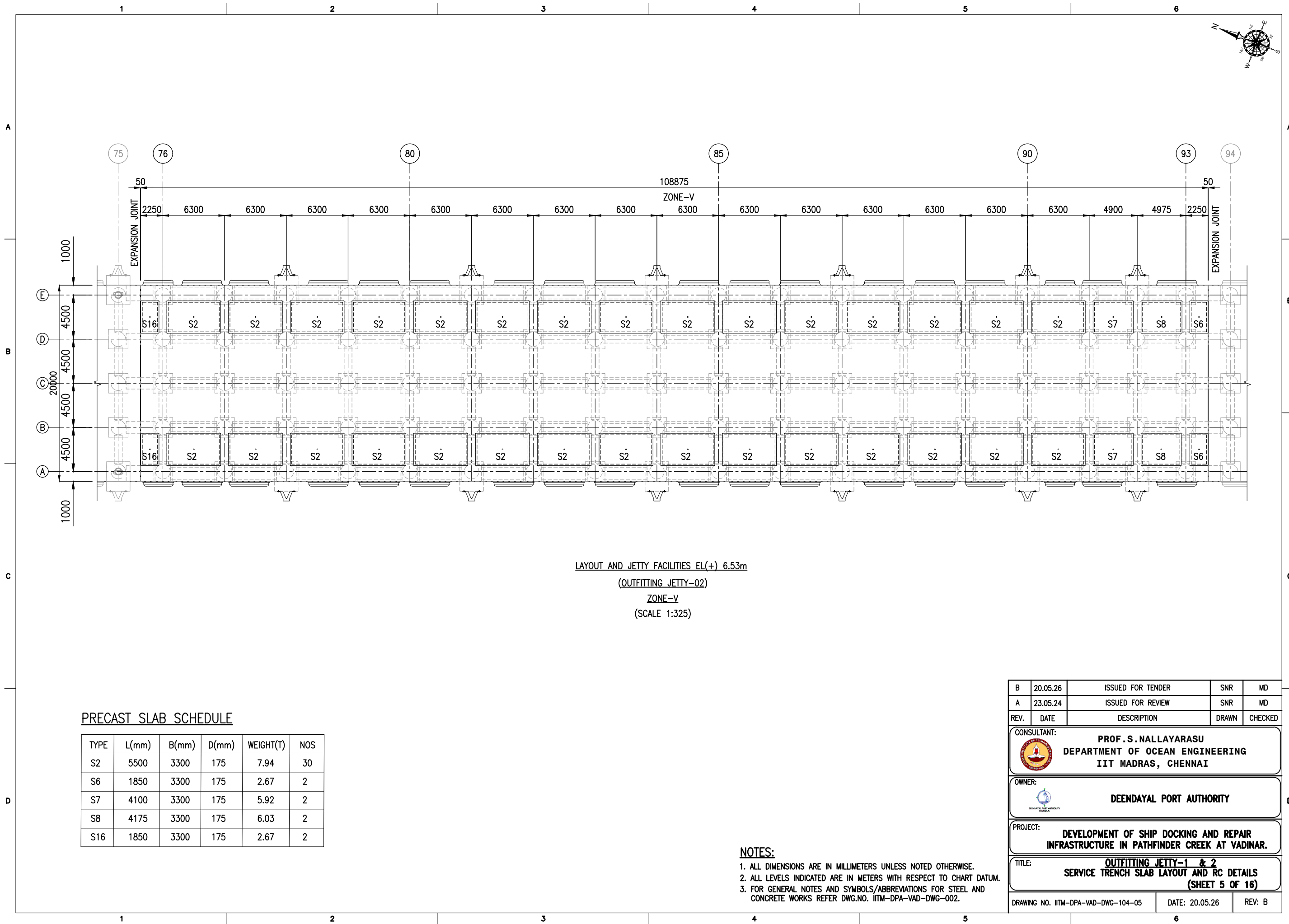
LAYOUT AND JETTY FACILITIES EL(+) 6.53m
(OUTFITTING JETTY-02)
ZONE-IV
(SCALE 1:325)

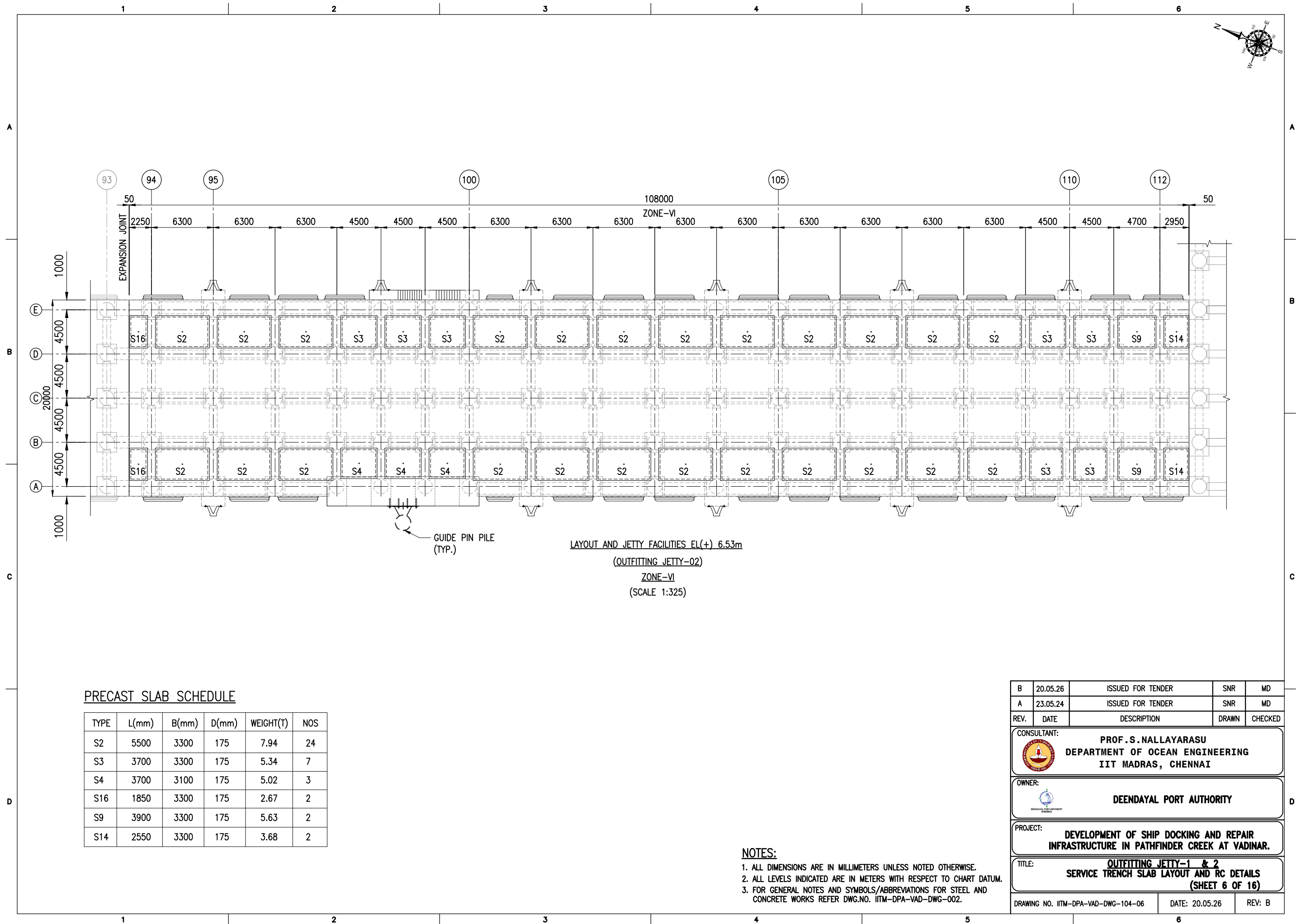
PRECAST SLAB SCHEDULE

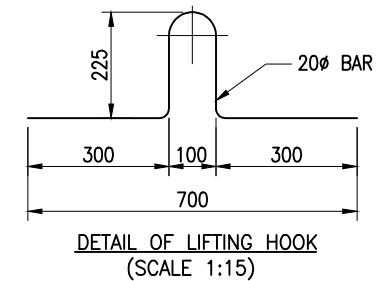
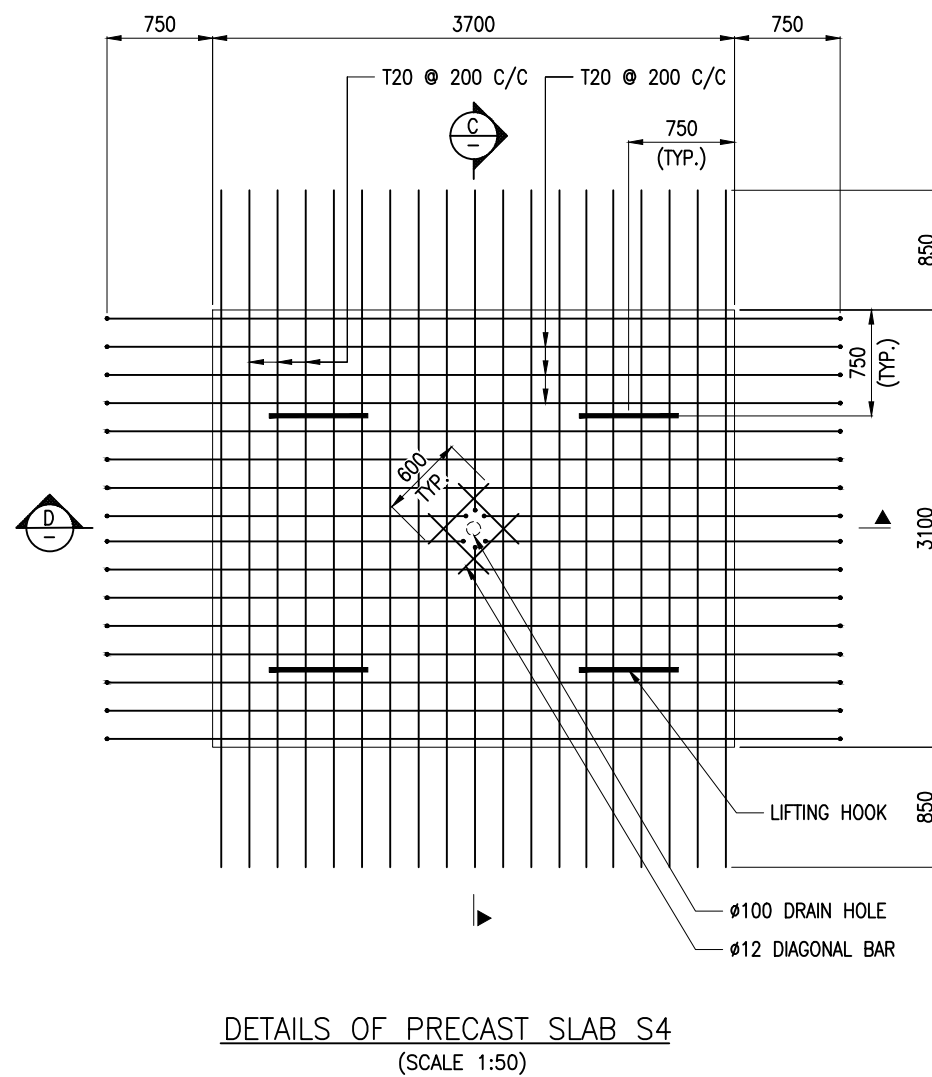
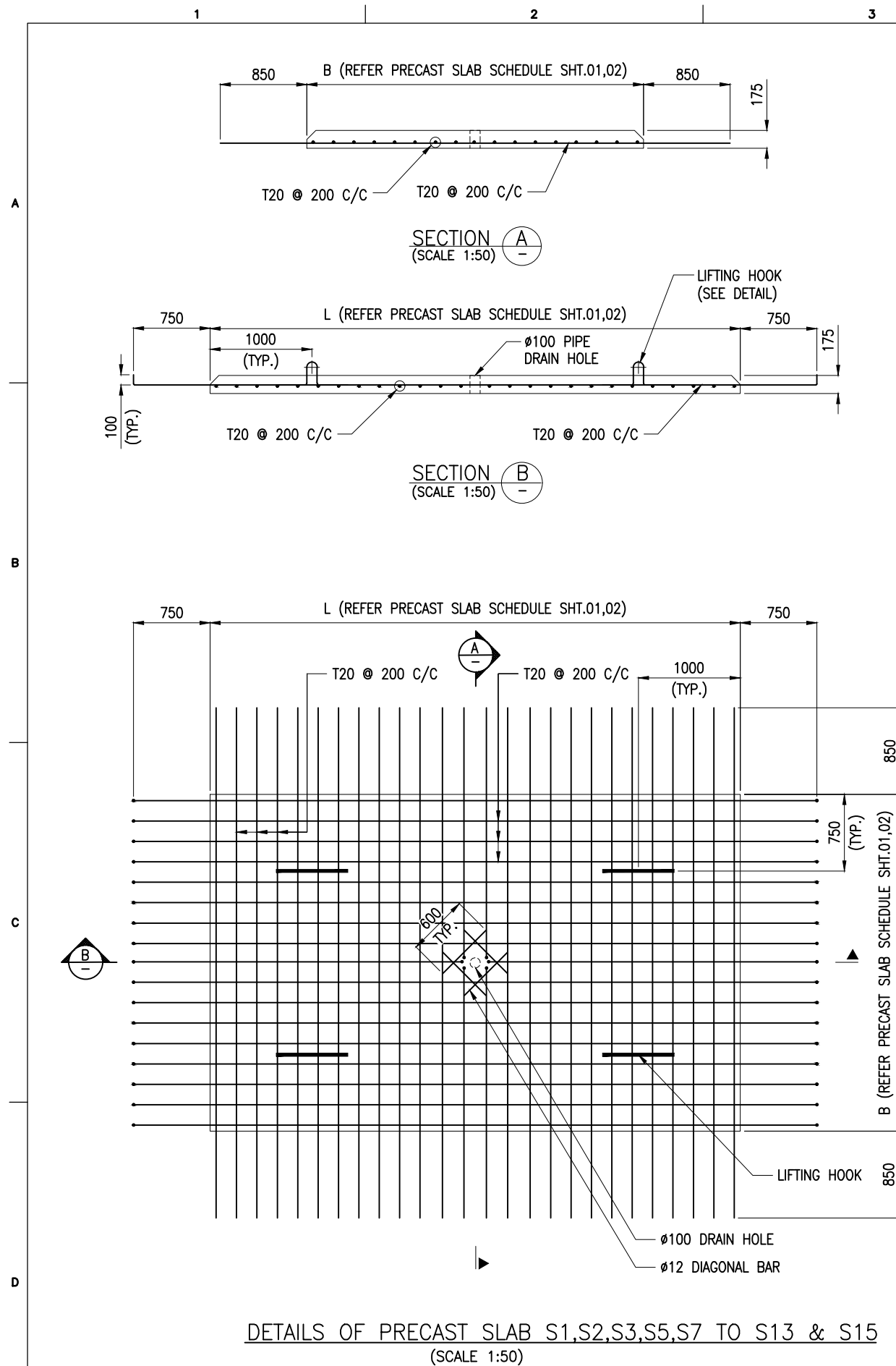
TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
S1	4500	3300	175	6.50	9
S2	5500	3300	175	7.94	22
S3	3700	3300	175	5.34	3
S4	3700	3100	175	5.02	4
S6	1850	3300	175	2.67	2
S11	4575	3300	175	6.60	2
S13	4225	3300	175	6.10	2
S15'	5100	3300	175	7.36	1
S16	1850	3300	175	2.67	2

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 4 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-04			DATE: 20.05.26	REV: B





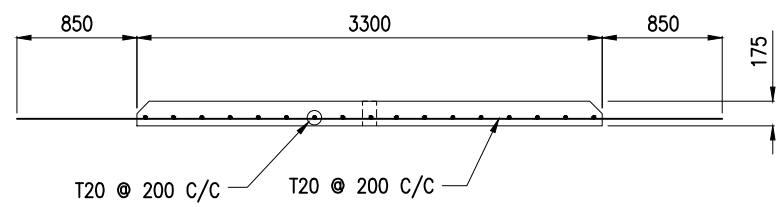




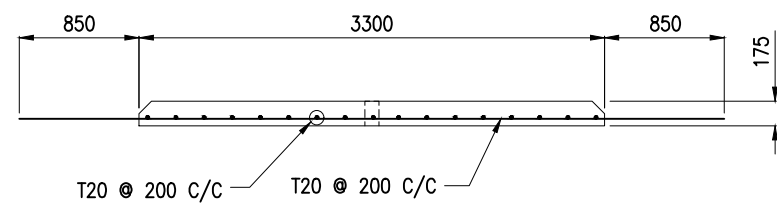
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

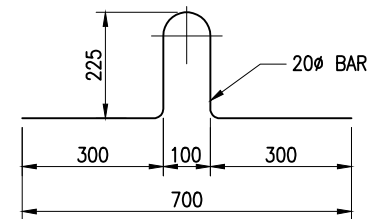
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 7 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-07		DATE: 20.05.26		REV: B



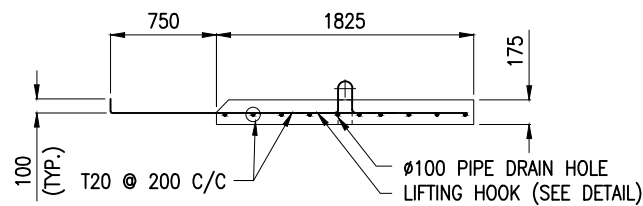
SECTION E
(SCALE 1:50)



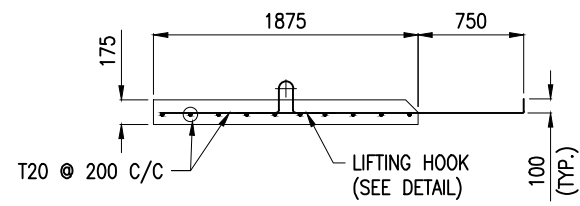
SECTION G
(SCALE 1:50)



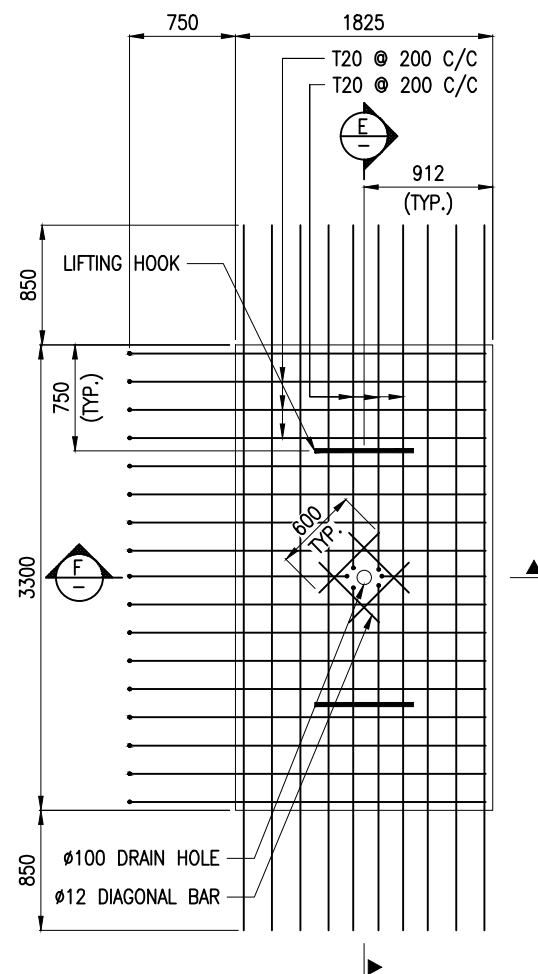
DETAIL OF LIFTING HOOK
(SCALE 1:15)



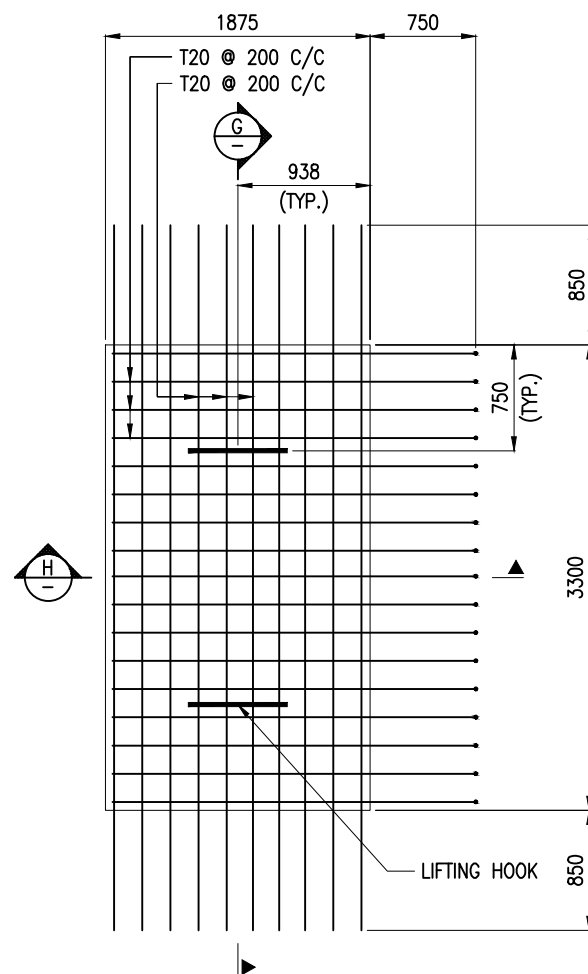
SECTION F
(SCALE 1:50)



SECTION H
(SCALE 1:50)



DETAILS OF PRECAST SLAB S6, S14
(SCALE 1:50)

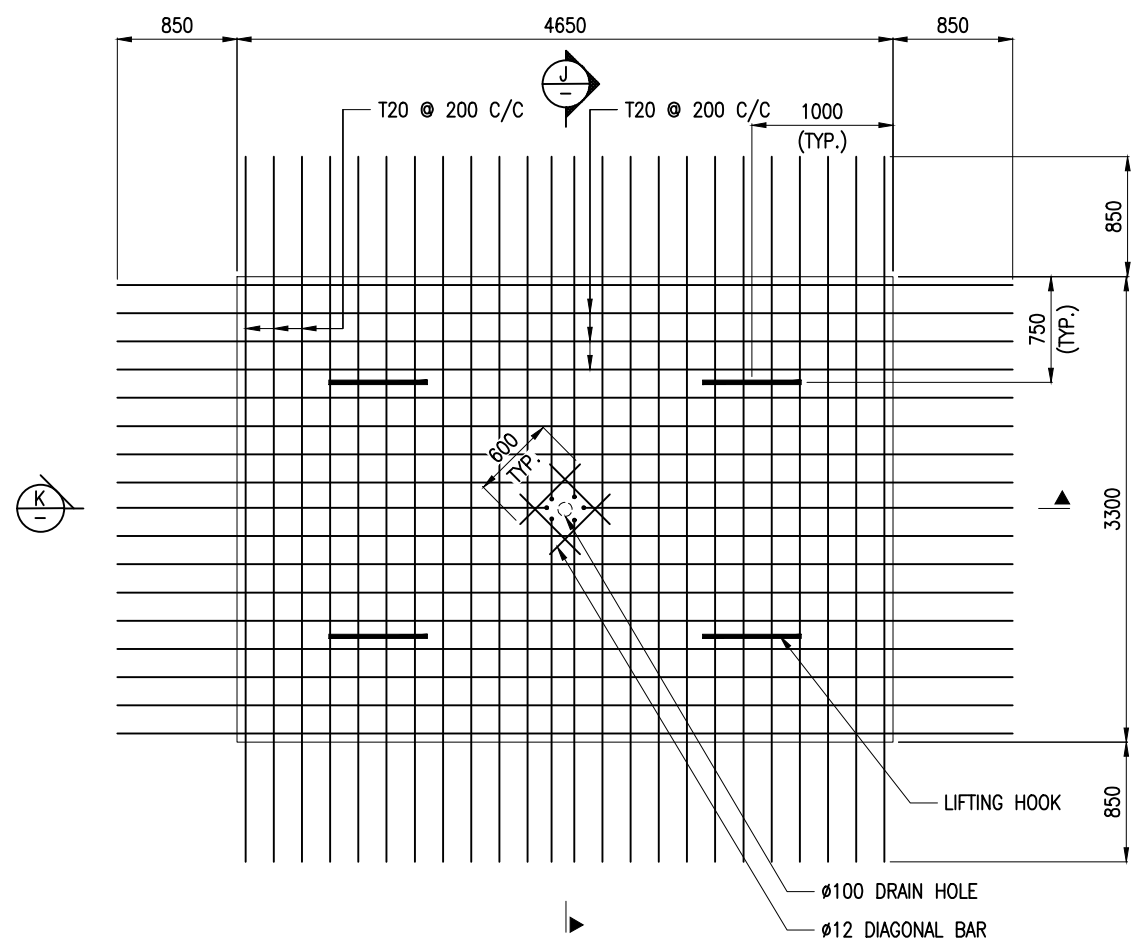
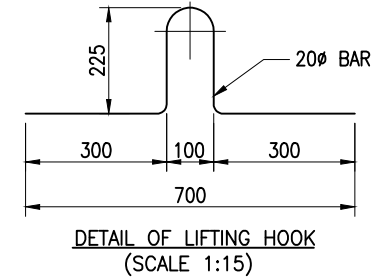
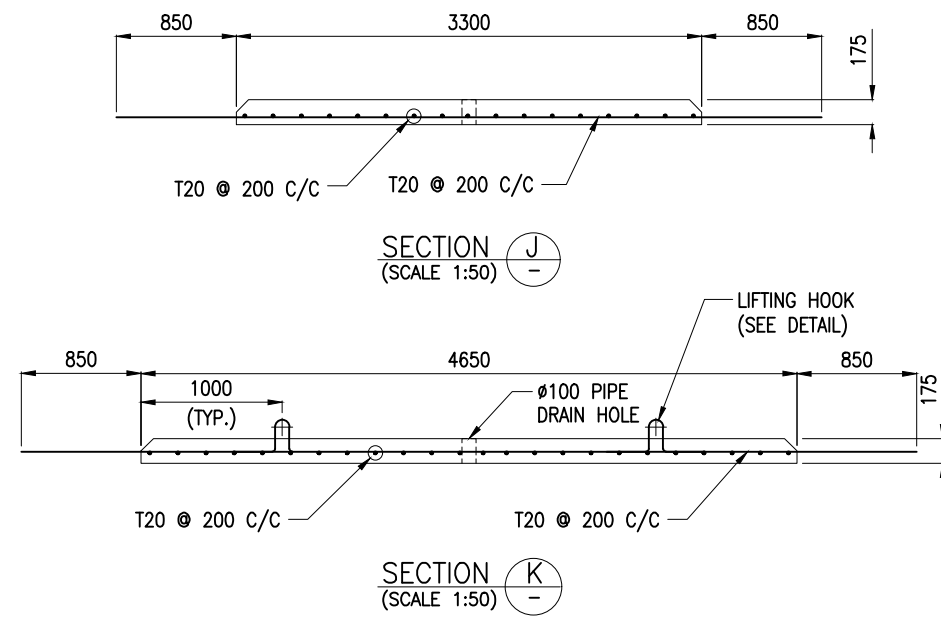


DETAILS OF PRECAST SLAB S16
(SCALE 1:50)

NOTES:

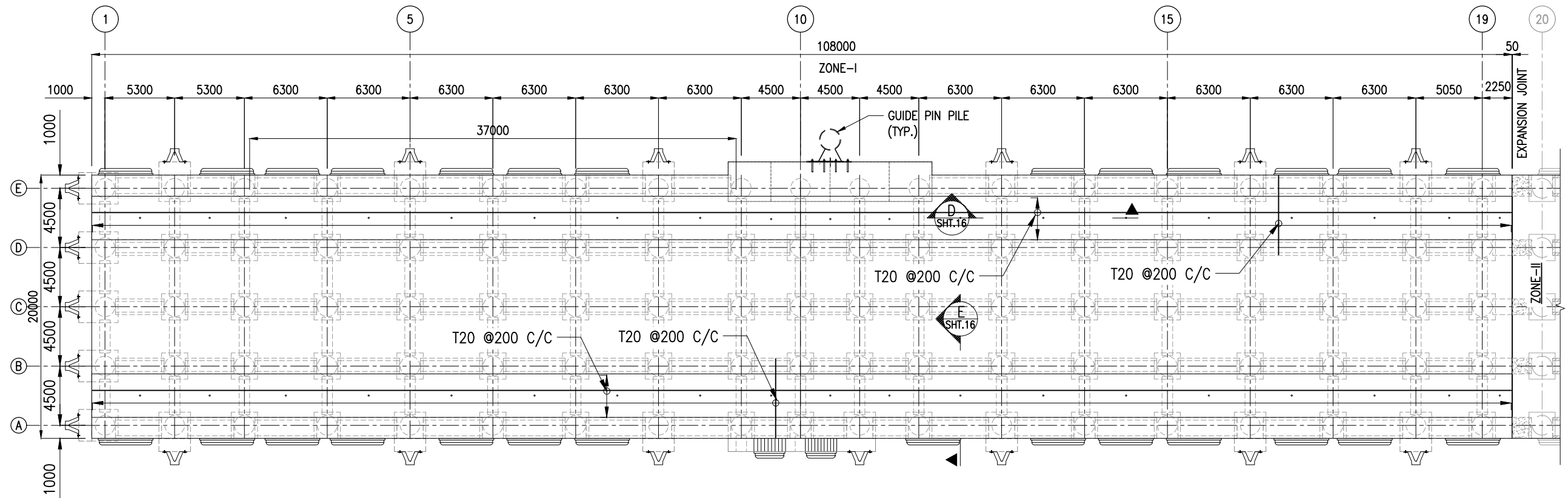
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 8 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-08		DATE: 20.05.26		REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 9 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-09			DATE: 20.05.26	REV: B

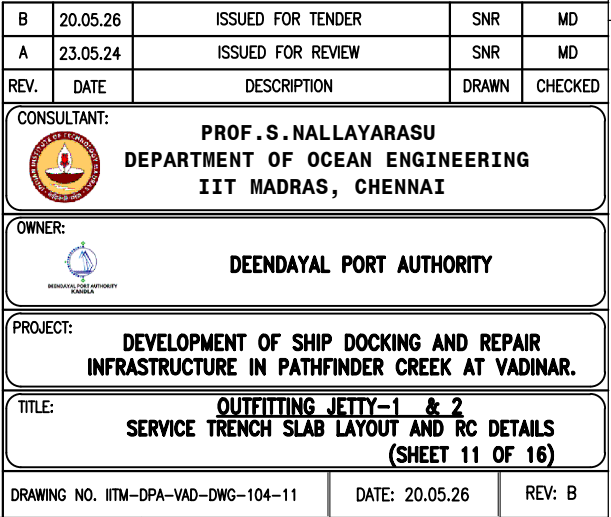


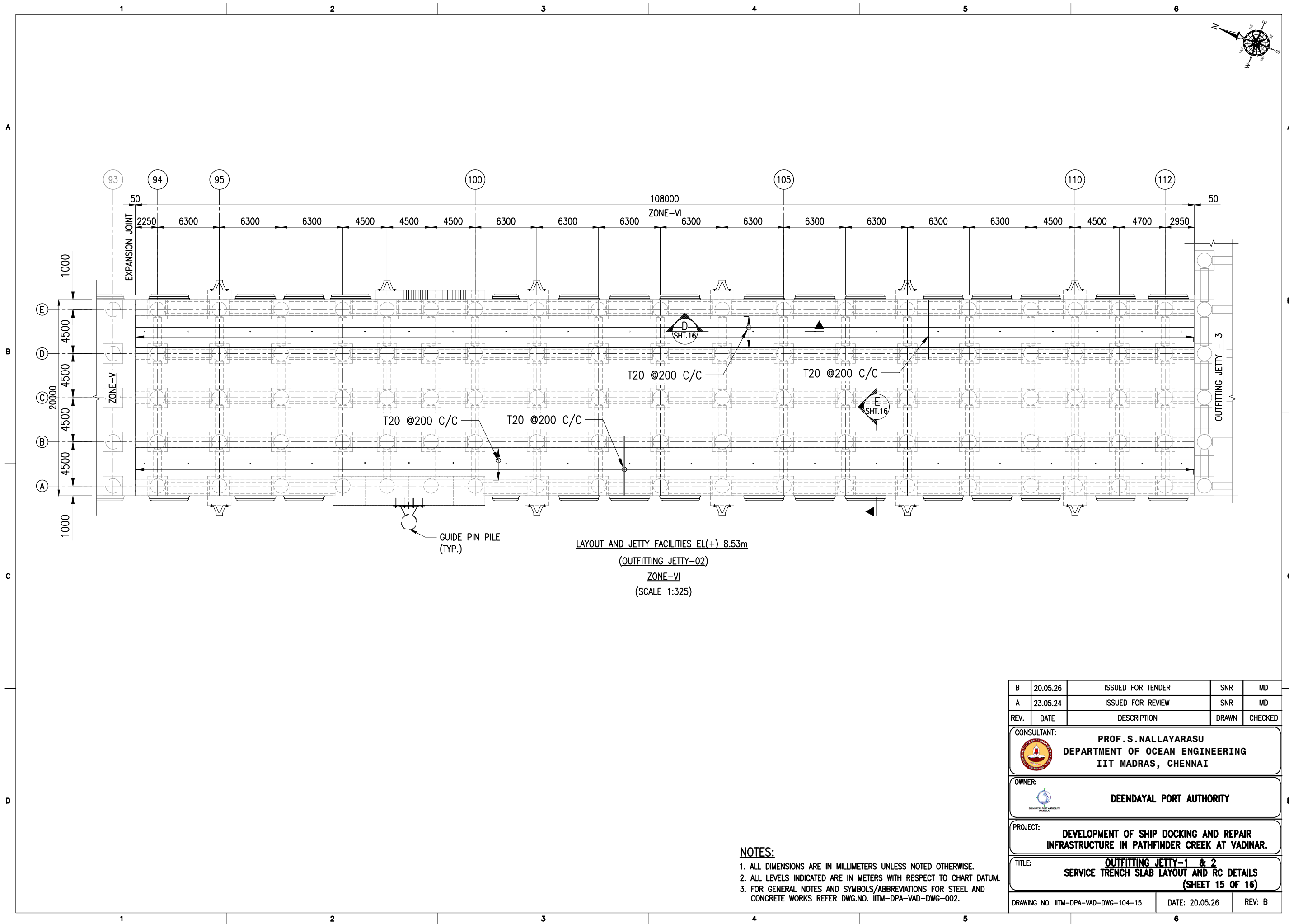
LAYOUT AND JETTY FACILITIES EL(+) 8.53m
(OUTFITTING JETTY-01)
ZONE-I
(SCALE 1:325)

NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

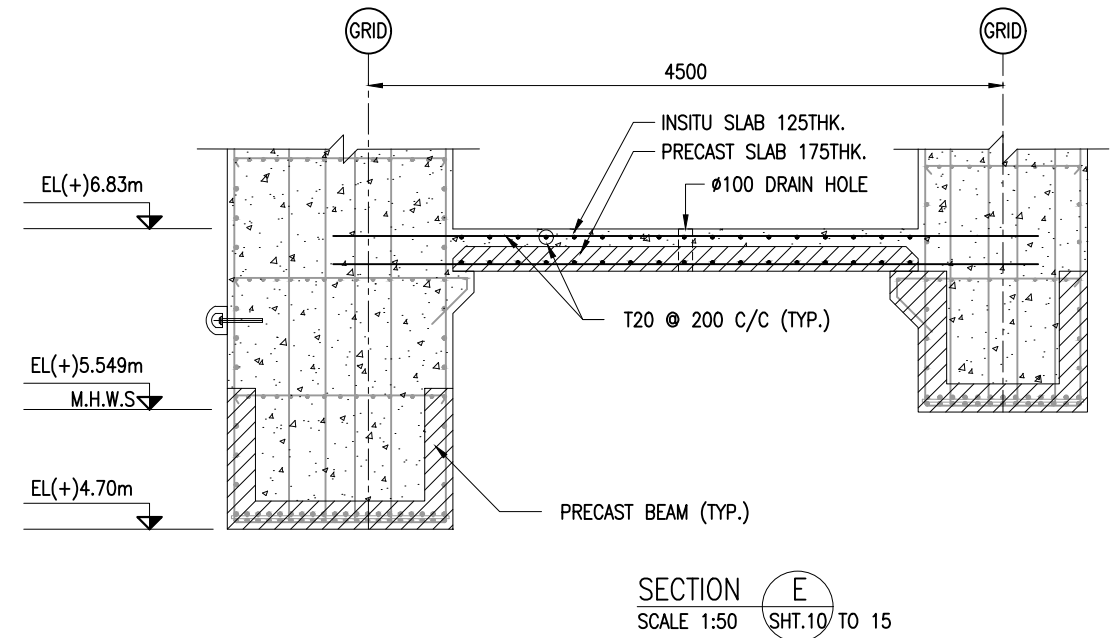
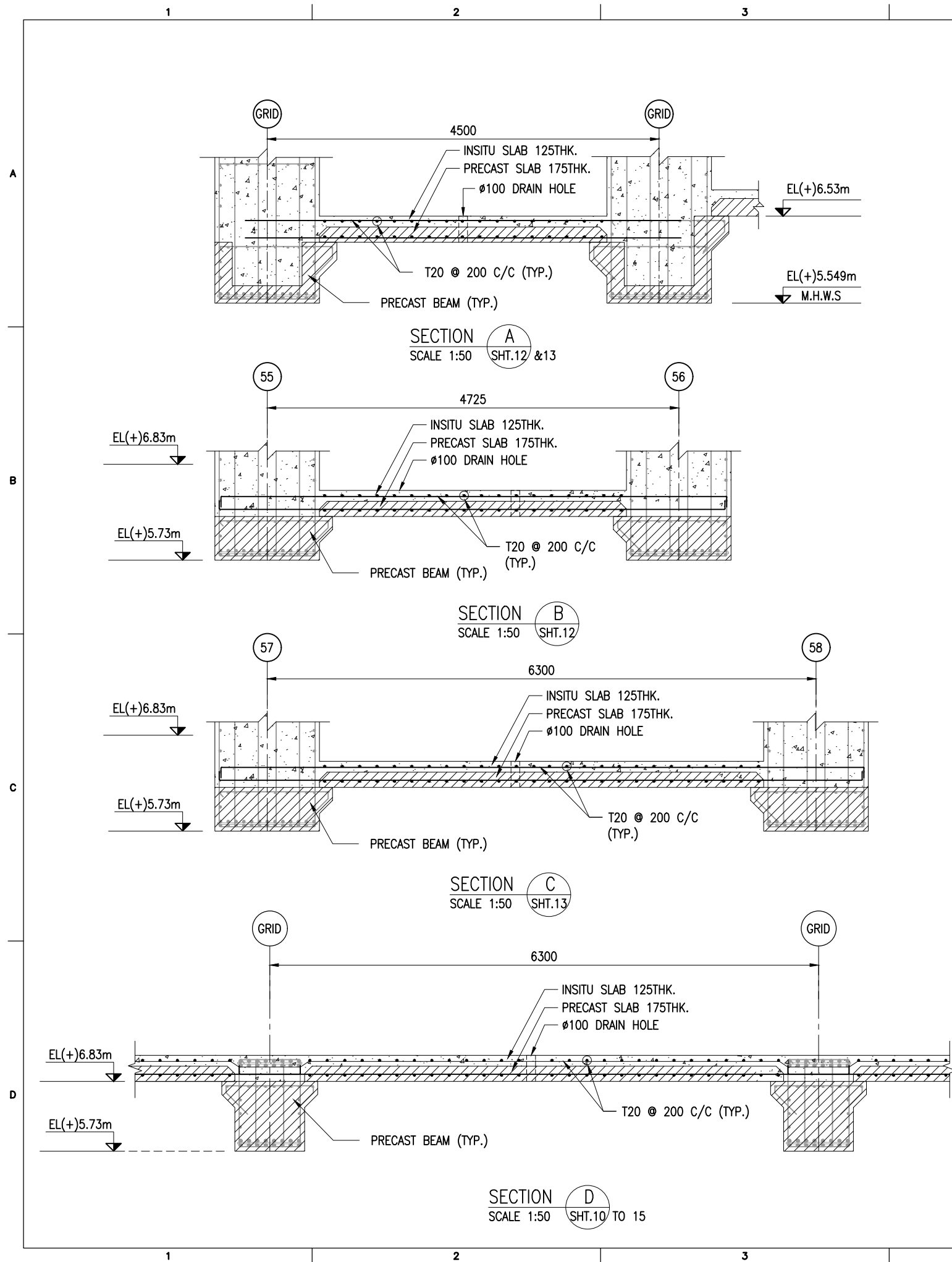
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 10 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-10			DATE: 20.05.26	REV: B





- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

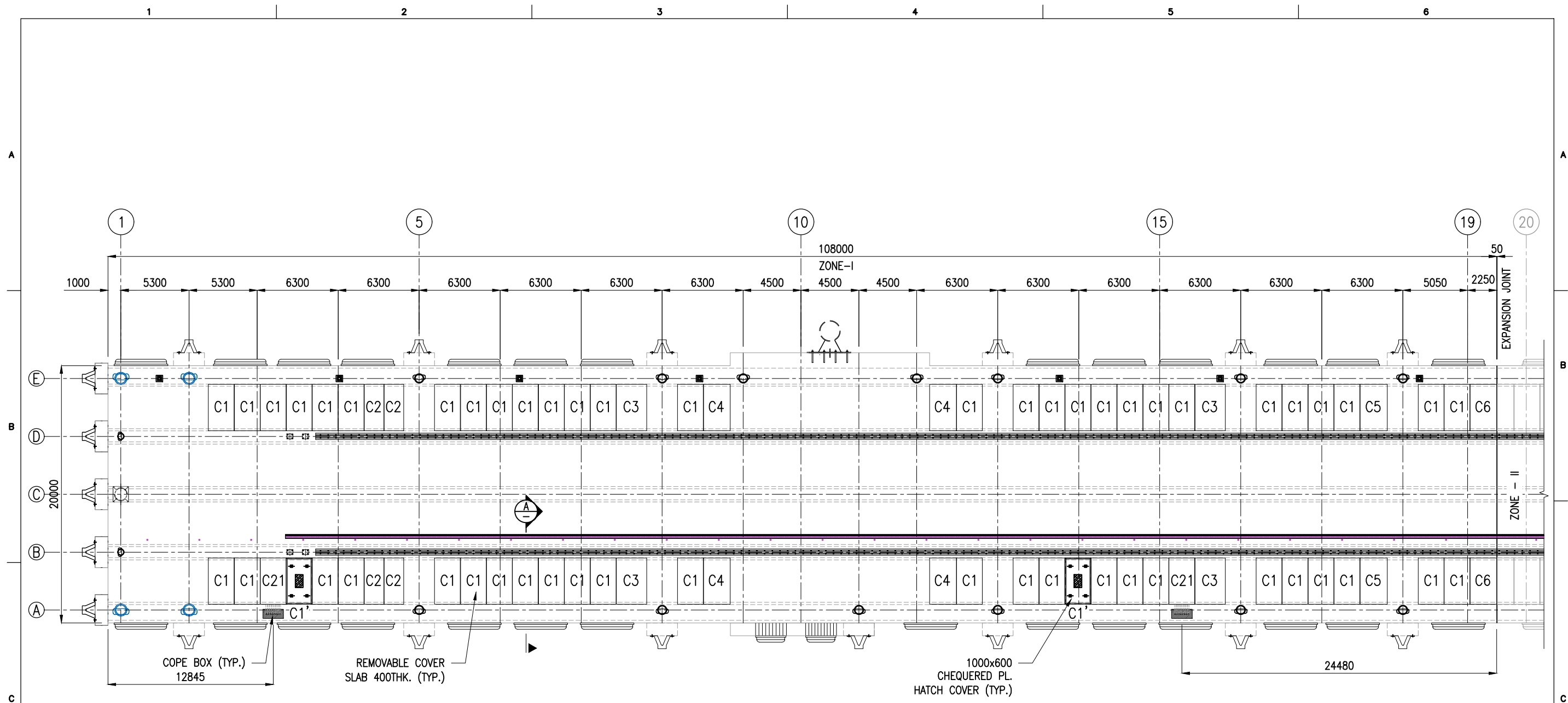
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 15 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-15			DATE: 20.05.26	REV: B



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

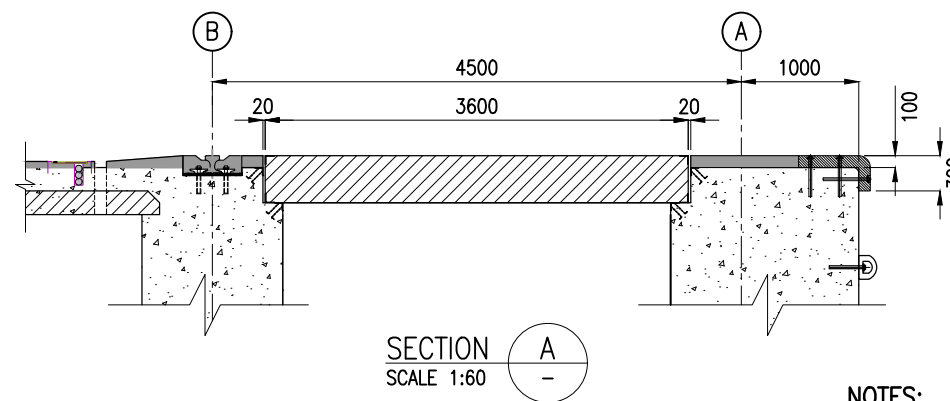
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 16 OF 16)				
DRAWING NO. IITM-DPA-VAD-DWG-104-16			DATE: 20.05.26	REV: B



REMOVABLE COVER SLAB LAYOUT AT EL(+). 8.63m
ZONE-I
(SCALE 1:300)

REMOVABLE COVER SLAB SCHEDULE

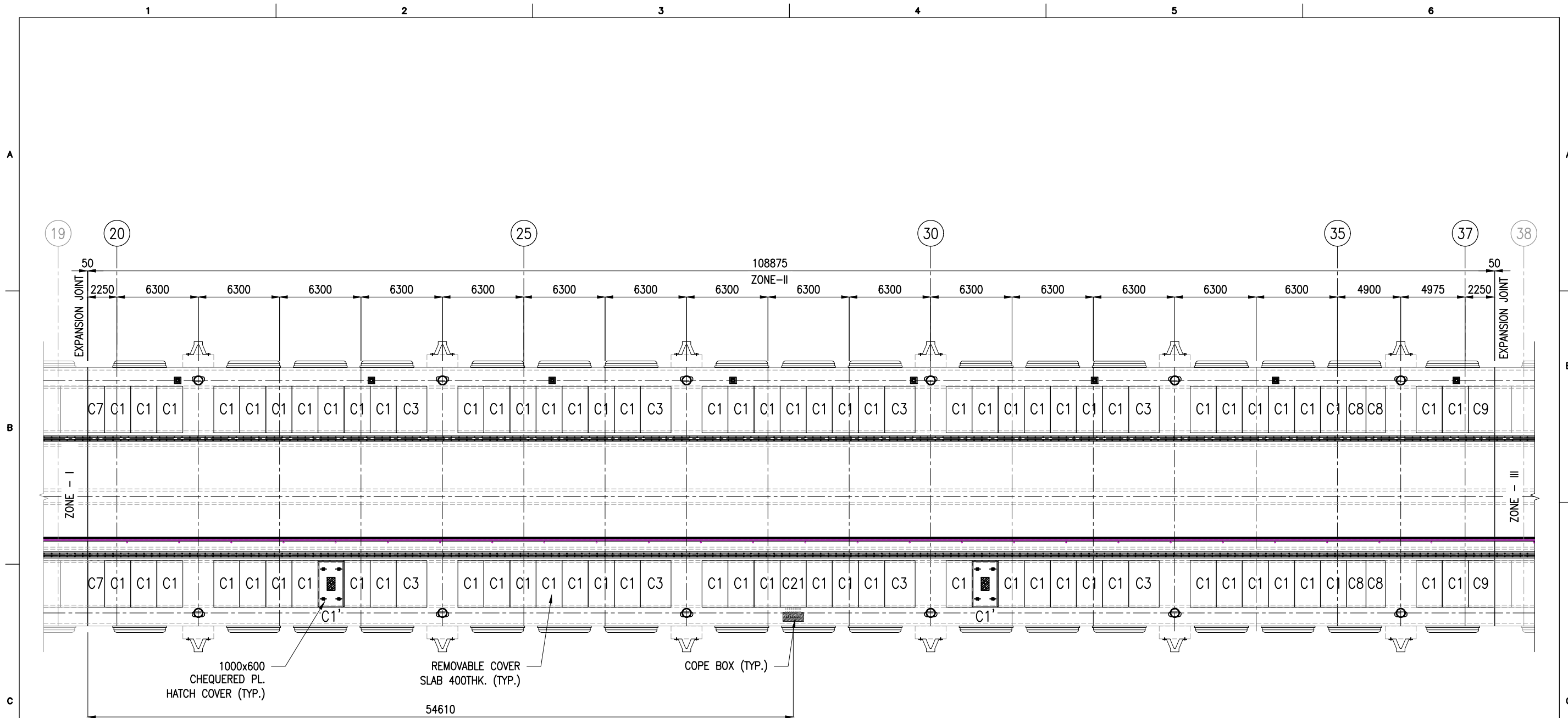
TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	52
C1'	2000	3600	400	6.60	2
C2	1525	3600	400	5.50	4
C3	2360	3600	400	8.50	4
C4	2080	3600	400	7.50	4
C5	2120	3600	400	7.63	2
C6	2060	3600	400	7.42	2
C21	2000	3600	400	7.20	2



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 1 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-01			DATE: 20.05.26	REV: B



REMOVABLE COVER SLAB LAYOUT AT EL(+). 8.63m
ZONE-II
(SCALE 1:300)

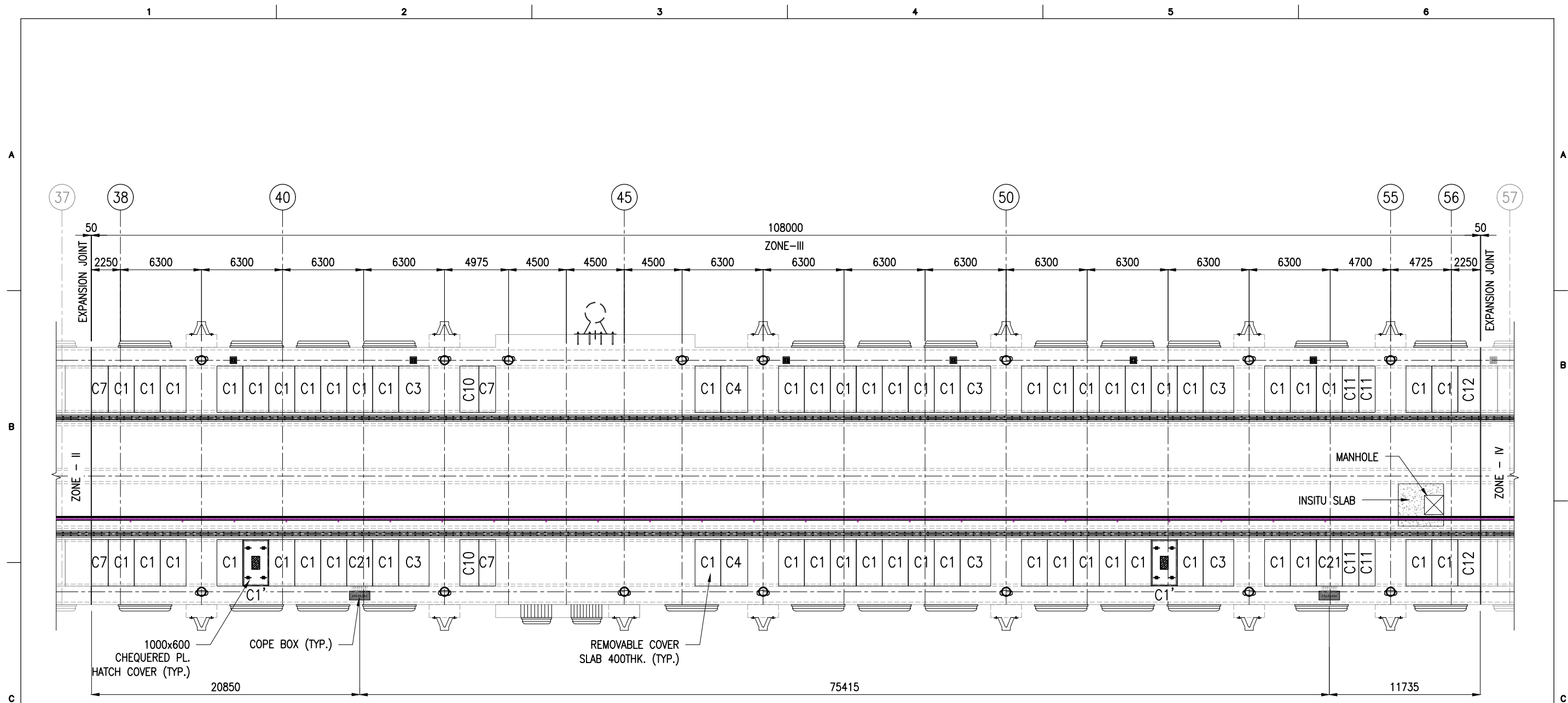
REMOVABLE COVER SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	75
C1'	2000	3600	400	6.60	2
C3	2360	3600	400	8.50	8
C7	1290	3600	400	4.64	2
C8	1480	3600	400	5.33	4
C9	1985	3600	400	7.15	2
C21	2000	3600	400	7.20	1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 2 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-02			DATE: 20.05.26	REV: B





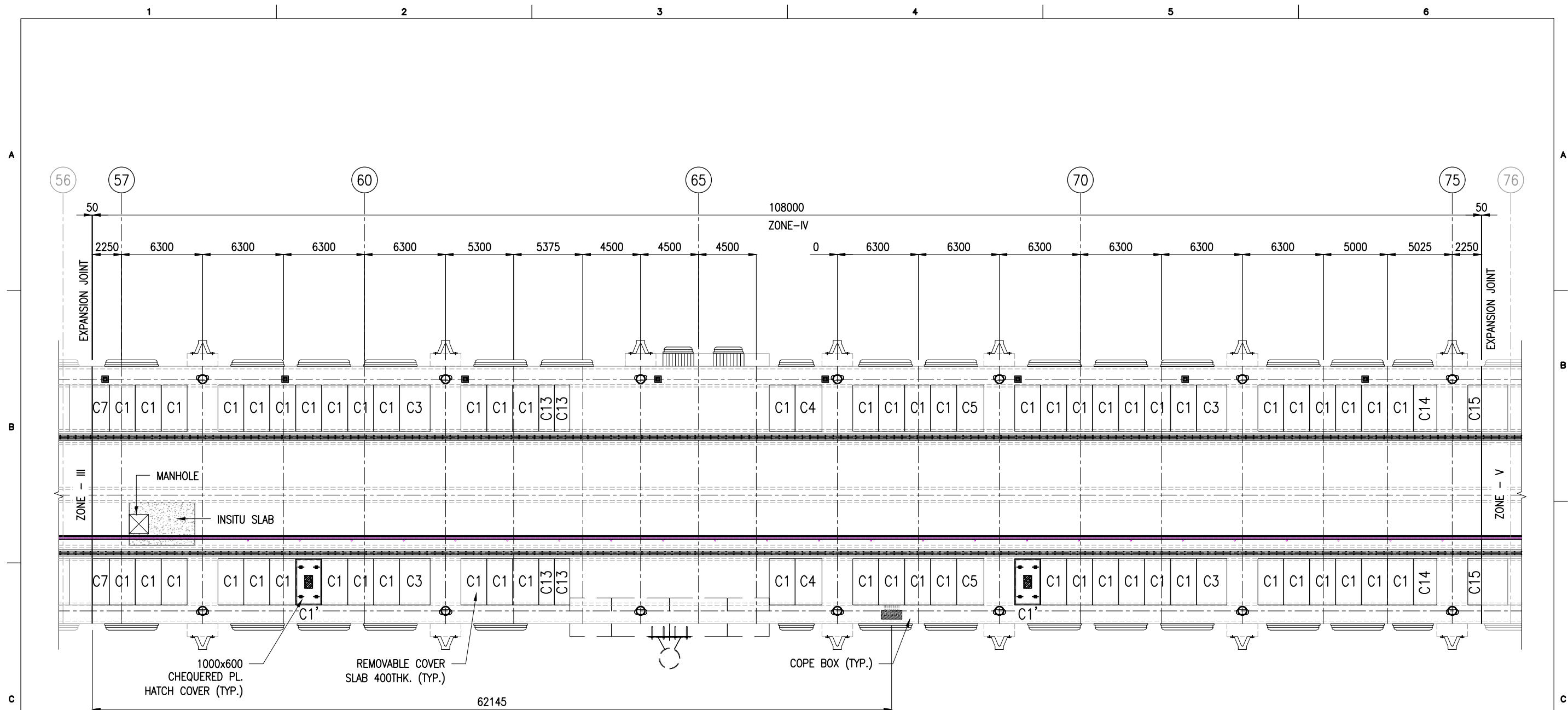
REMOVABLE COVER SLAB LAYOUT AT EL(+) 8.63m
 ZONE-III
 (SCALE 1:300)

REMOVABLE COVER SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	58
C1'	2000	3600	400	6.60	2
C3	2360	3600	400	8.50	6
C4	2080	3600	400	7.50	2
C7	1290	3600	400	4.64	4
C10	1465	3600	400	5.27	2
C11	1260	3600	400	4.54	4
C12	1735	3600	400	6.25	2
C21	2000	3600	400	7.20	2

NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 3 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-03			DATE: 20.05.26	REV: B



REMOVABLE COVER SLAB LAYOUT AT EL(+) 8.63m
ZONE-IV
(SCALE 1:300)

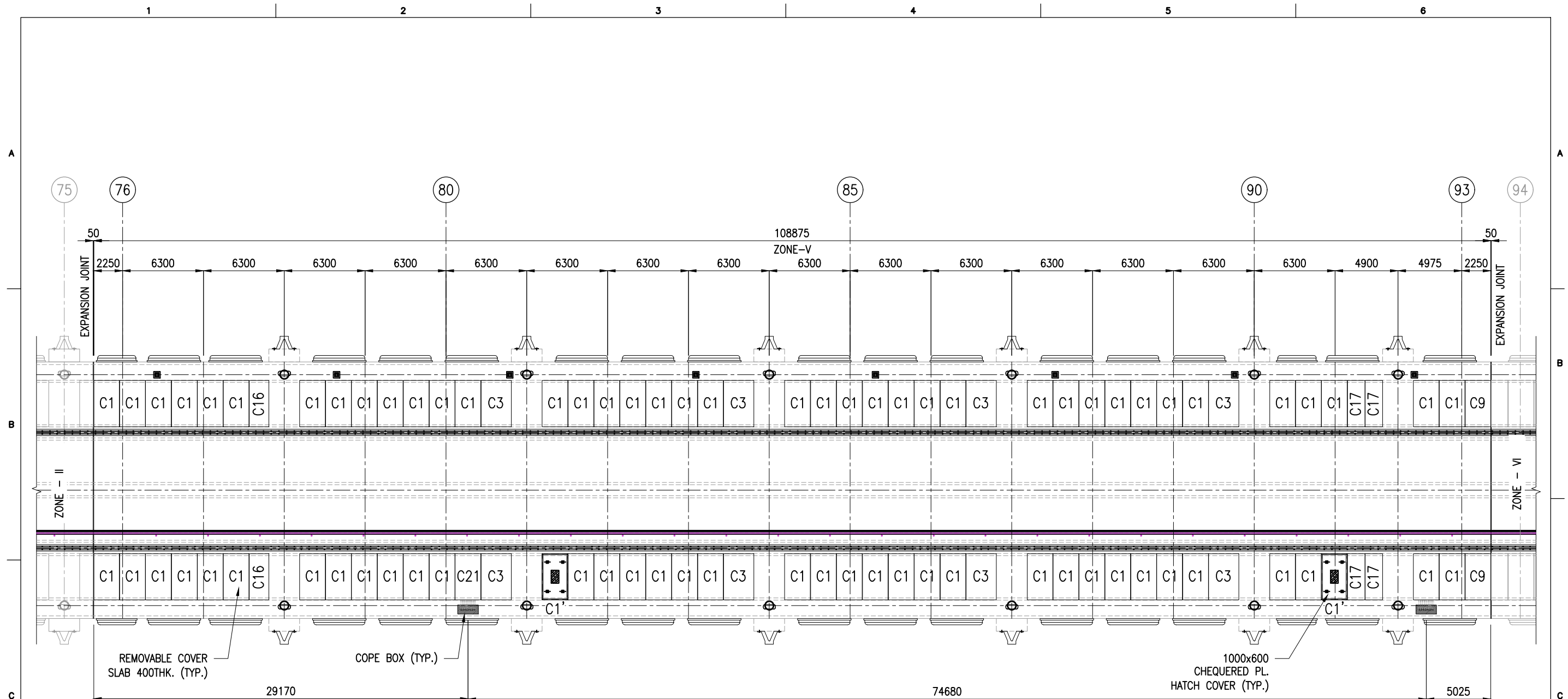
REMOVABLE COVER SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	59
C1'	2000	3600	400	6.60	2
C3	2360	3600	400	8.50	4
C4	2080	3600	400	7.50	2
C5	2120	3600	400	7.63	2
C7	1290	3600	400	4.64	2
C13	1198	3600	400	4.31	4
C14	1800	3600	400	6.48	2
C15	1045	3600	400	3.76	2
C21	2000	3600	400	7.20	1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 4 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-04			DATE: 20.05.26	REV: B





REMOVABLE COVER SLAB LAYOUT AT EL(+) 8.63m
 ZONE-V
 (SCALE 1:300)

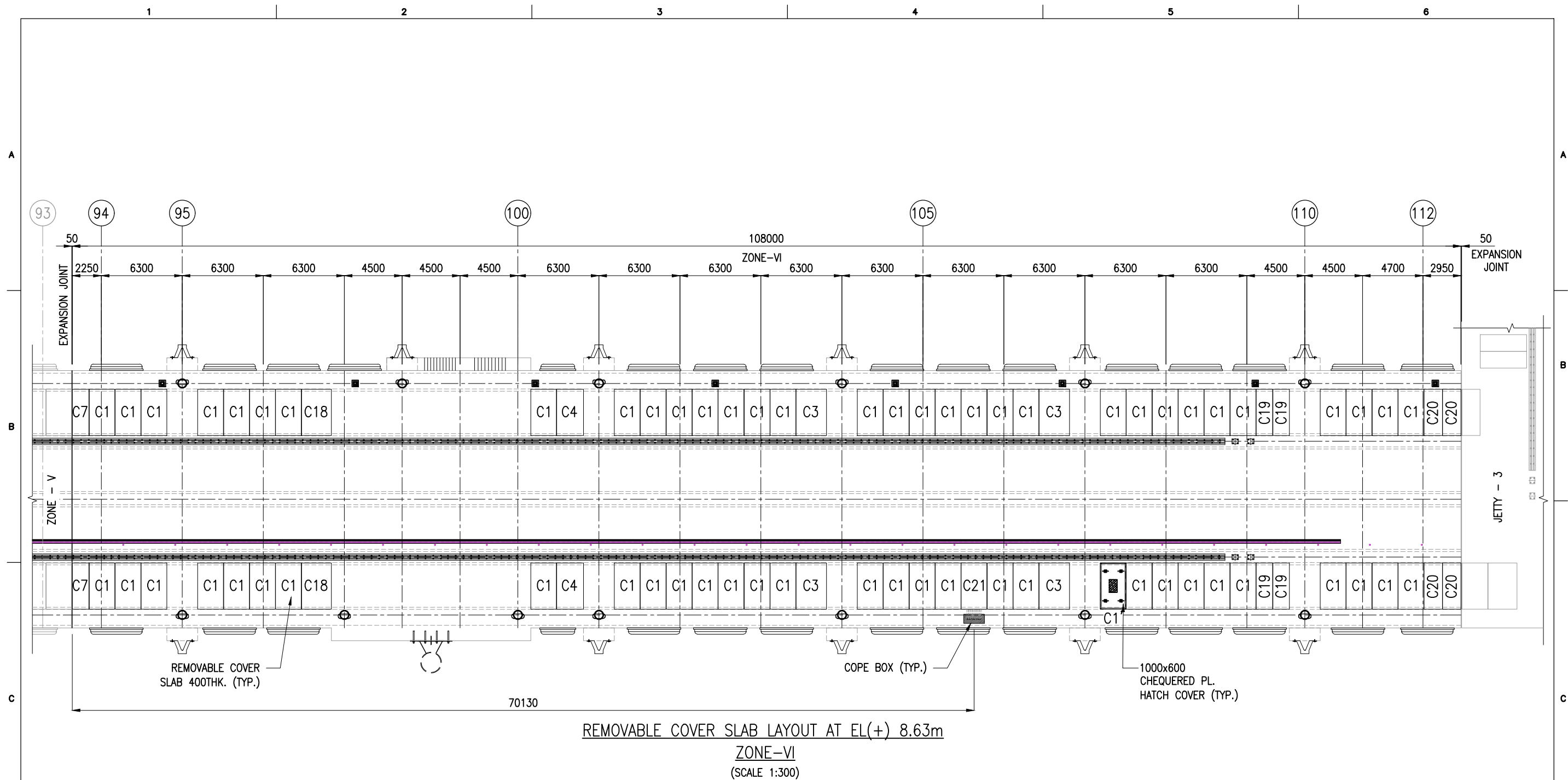
REMOVABLE COVER SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	74
C1'	2000	3600	400	6.60	2
C3	2360	3600	400	8.50	8
C9	1985	3600	400	7.15	2
C16	1530	3600	400	5.51	2
C17	1360	3600	400	4.90	4
C21	2000	3600	400	7.20	2

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 5 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-05			DATE: 20.05.26	REV: B



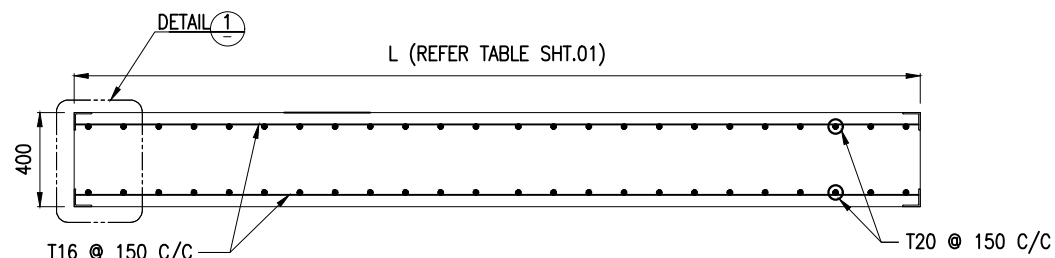
REMOVABLE COVER SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	62
C1'	2000	3600	400	6.60	1
C3	2360	3600	400	8.50	4
C4	2080	3600	400	7.50	2
C7	1290	3600	400	4.64	2
C18	2320	3600	400	8.35	2
C19	1280	3600	400	4.61	4
C20	1425	3600	400	5.13	4
C21	2000	3600	400	7.20	1

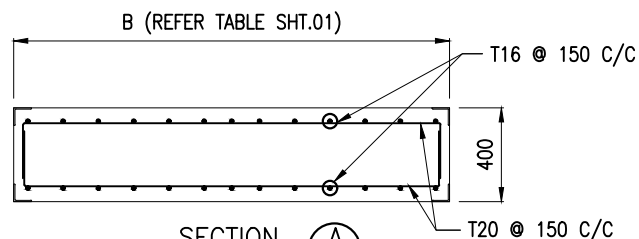
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

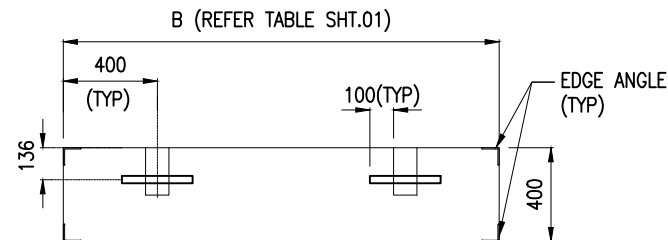
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 6 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-06			DATE: 20.05.26	REV: B



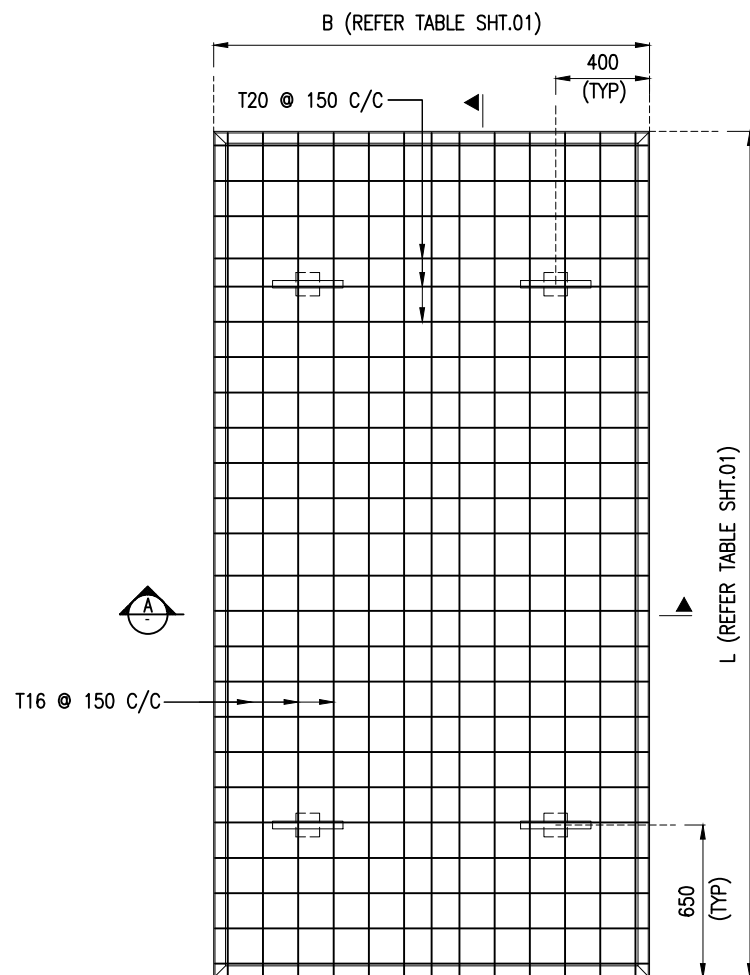
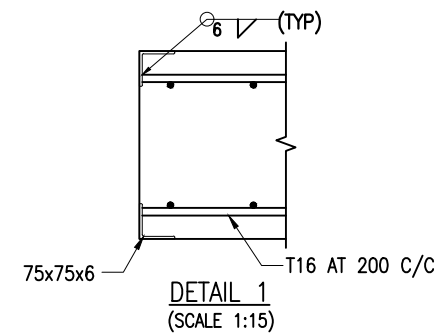
SECTION B
(SCALE 1:30)



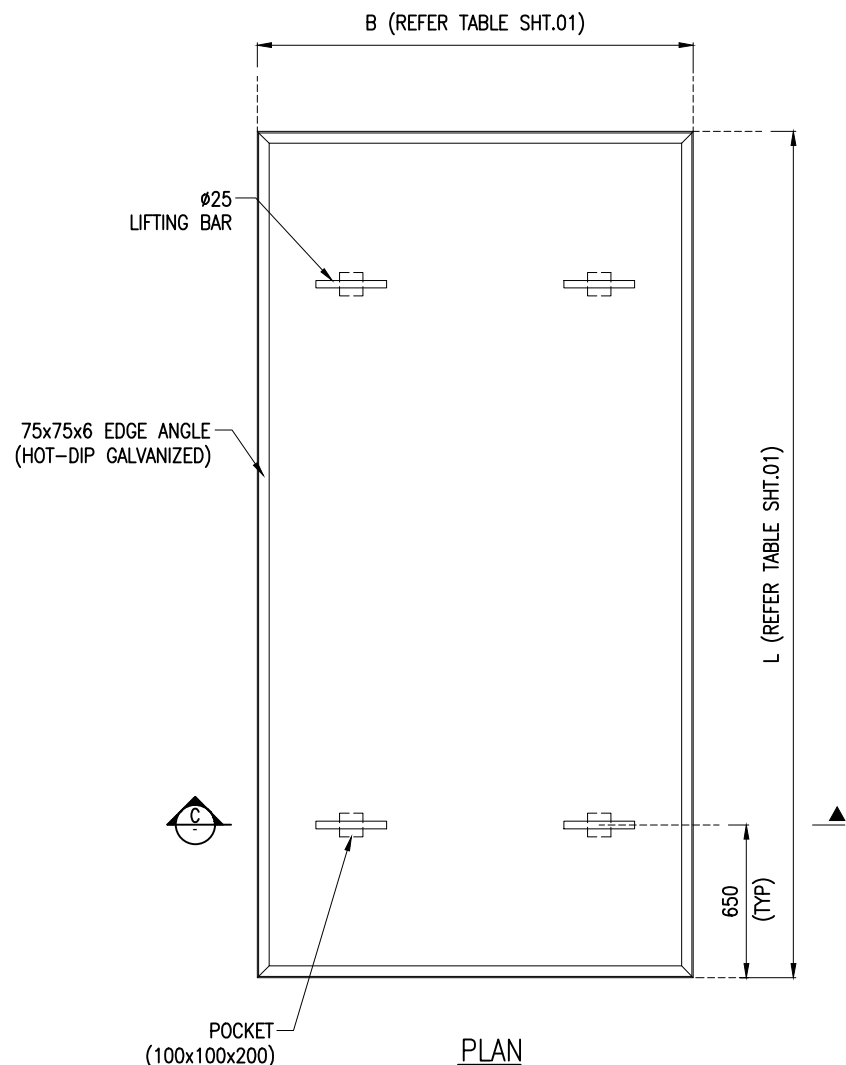
SECTION A
(SCALE 1:30)



SECTION C
(SCALE 1:30)
(REINFORCEMENT NOT SHOWN FOR CLARITY)





PLAN
TYPICAL DETAILS OF PRECAST SLAB
(SCALE 1:30)

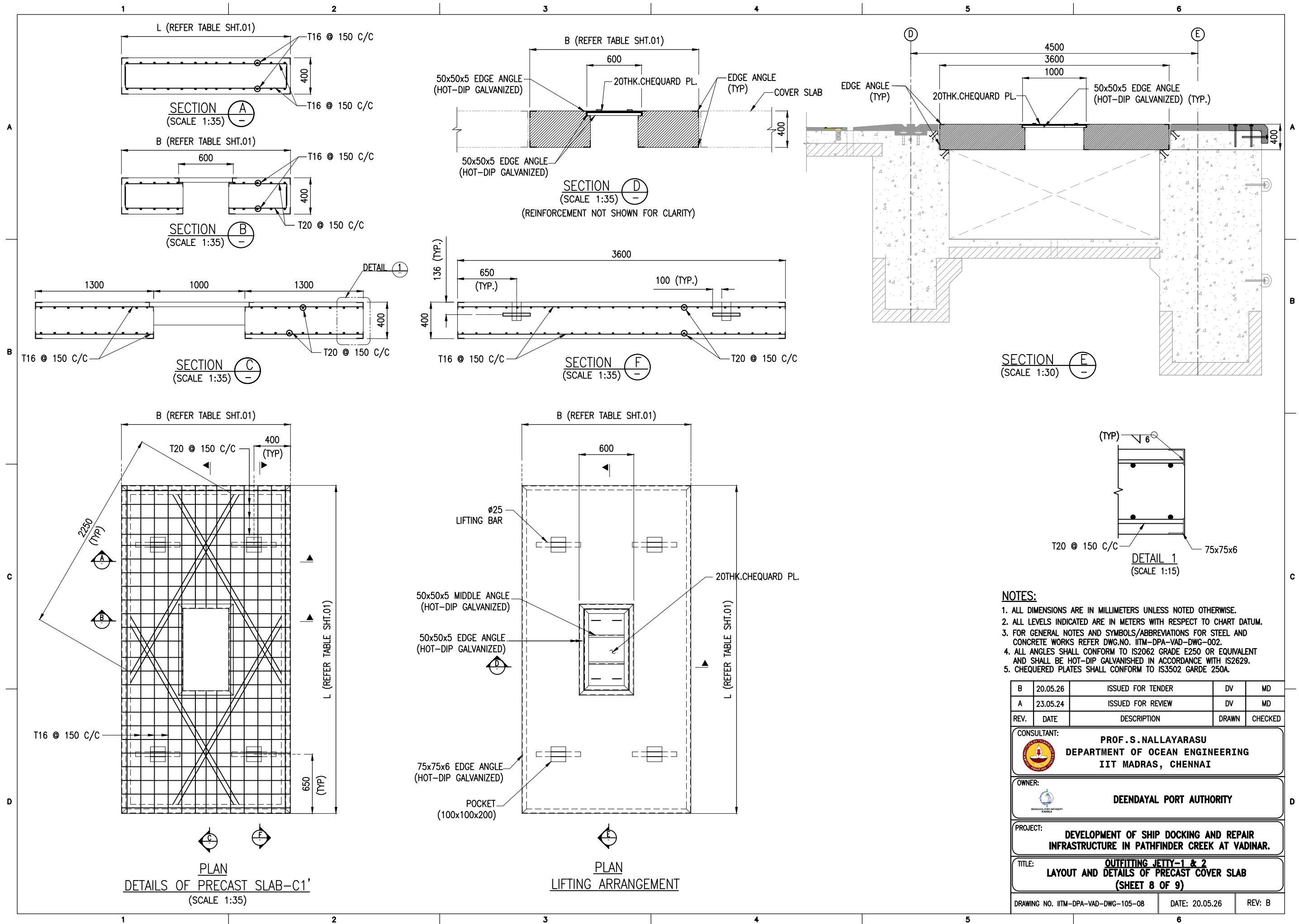


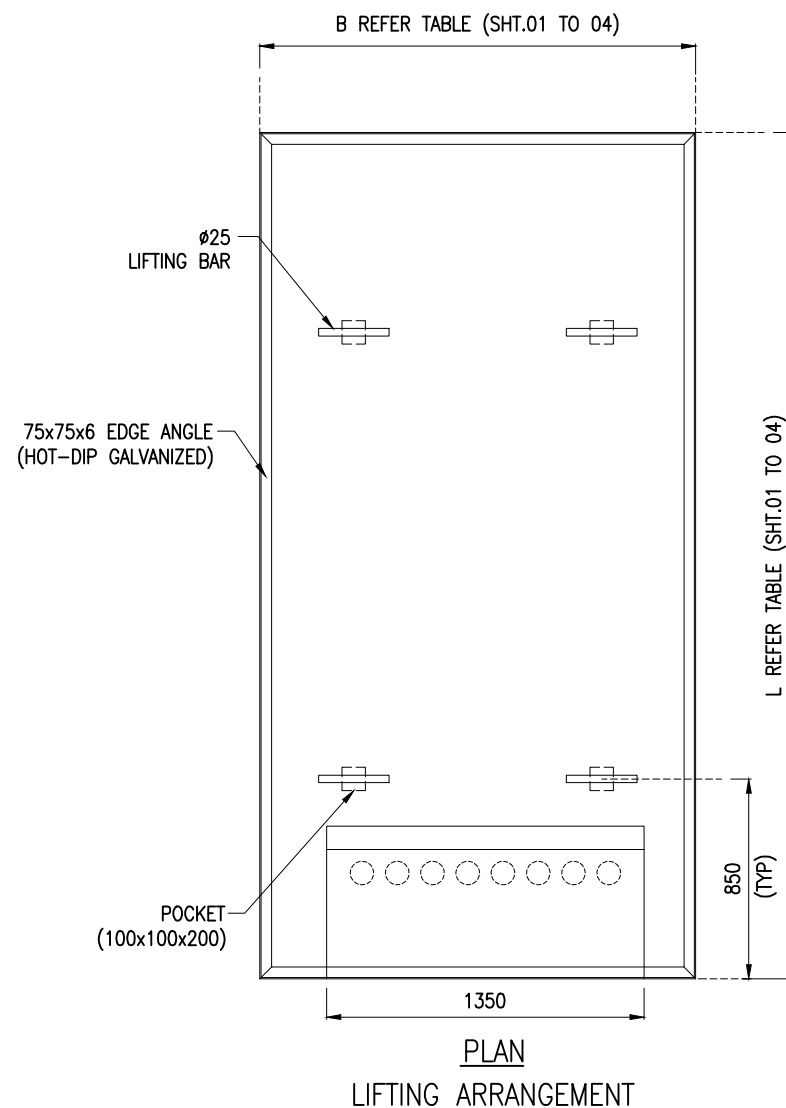
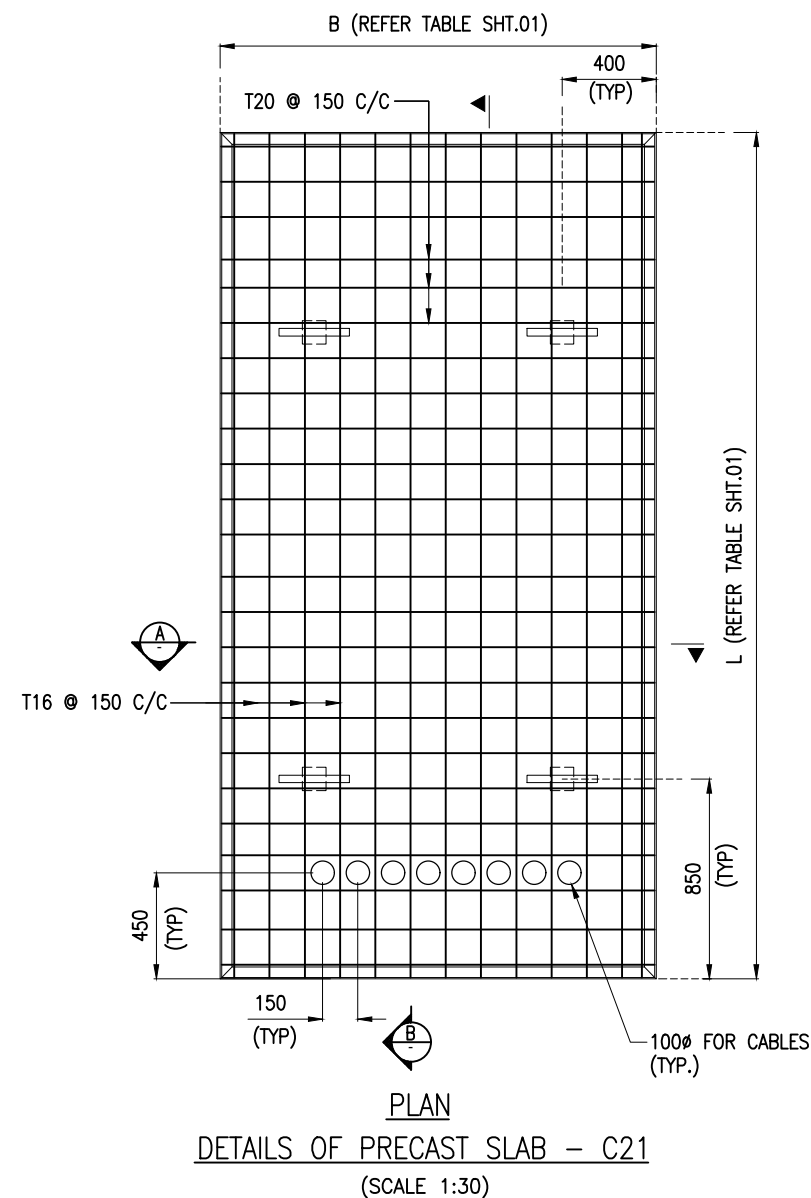
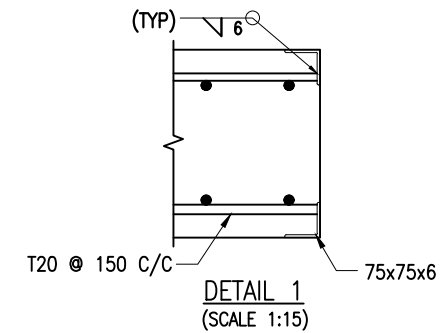
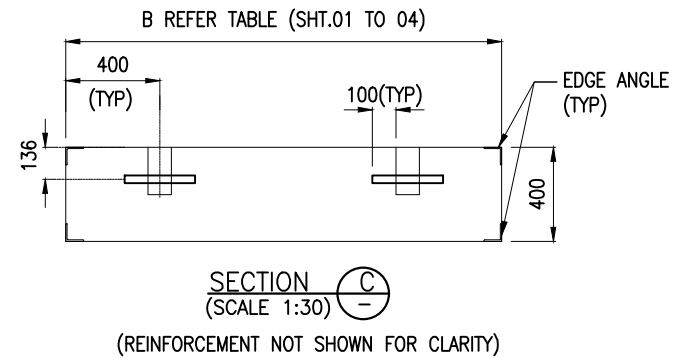
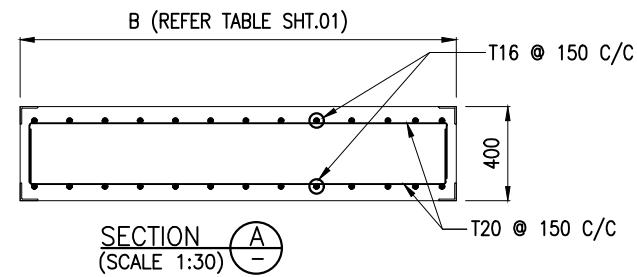
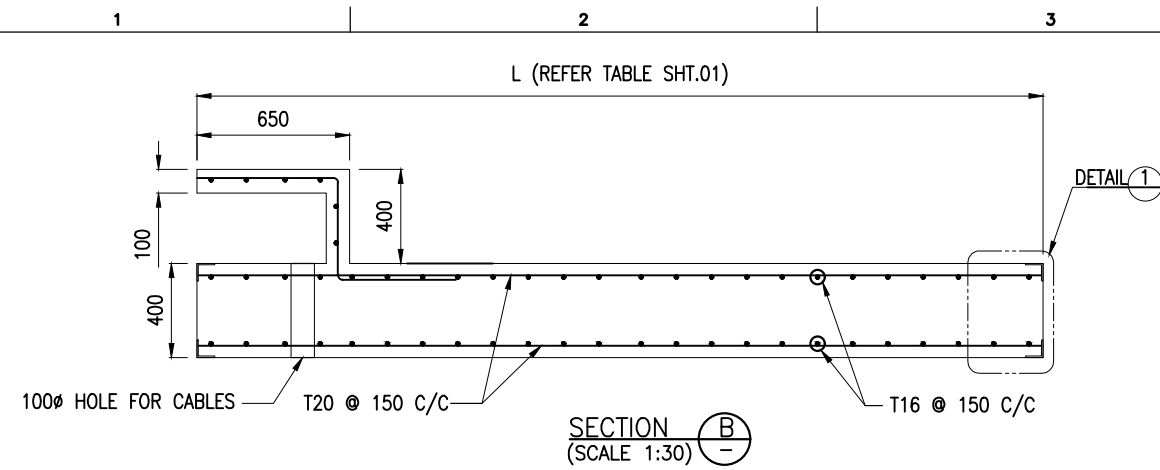
PLAN
LIFTING ARRANGEMENT

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 7 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-07		DATE: 20.05.26		REV: B

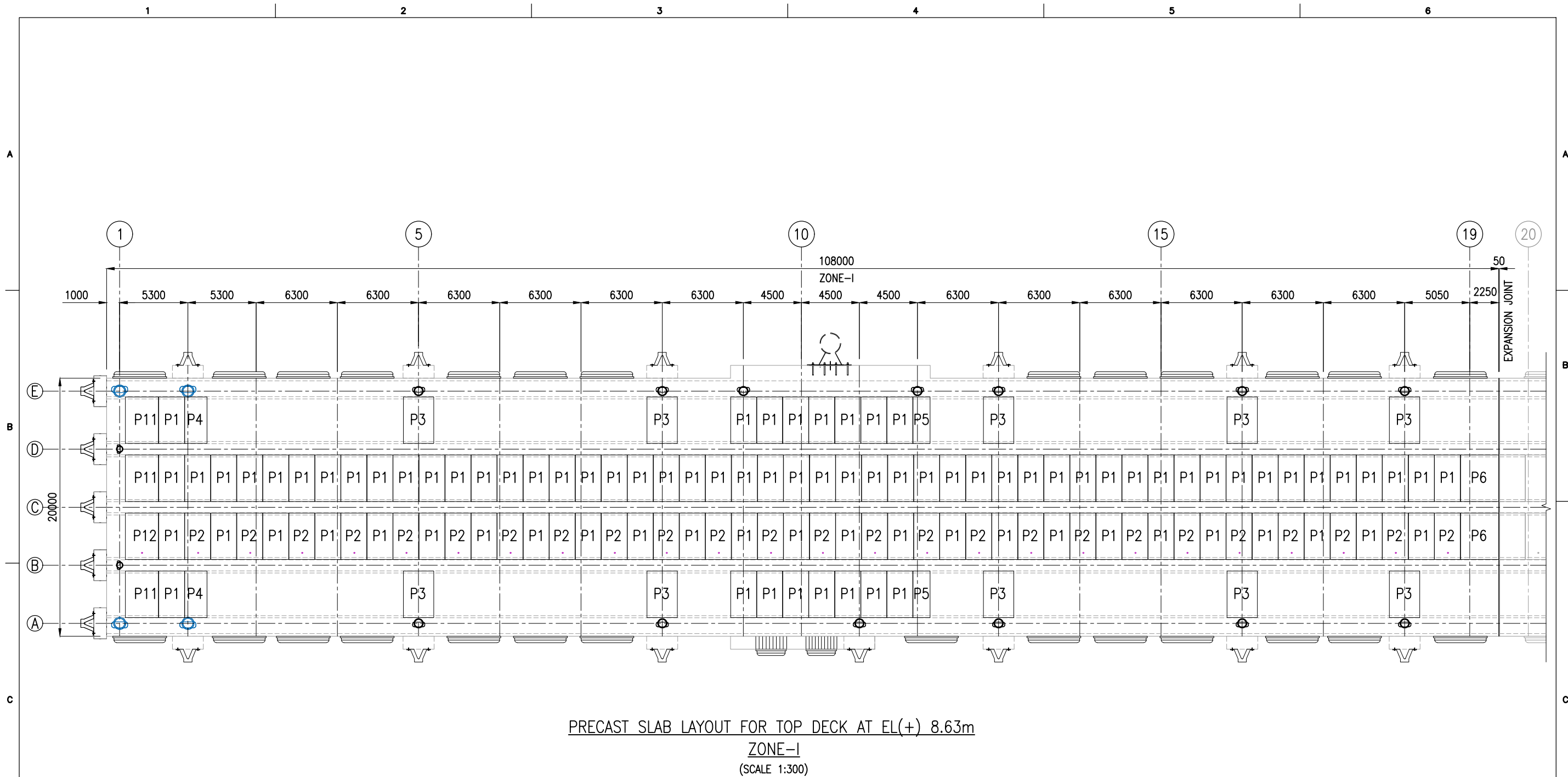




NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-1 & 2 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 9 OF 9)				
DRAWING NO. IITM-DPA-VAD-DWG-105-09			DATE: 20.05.26	REV: B





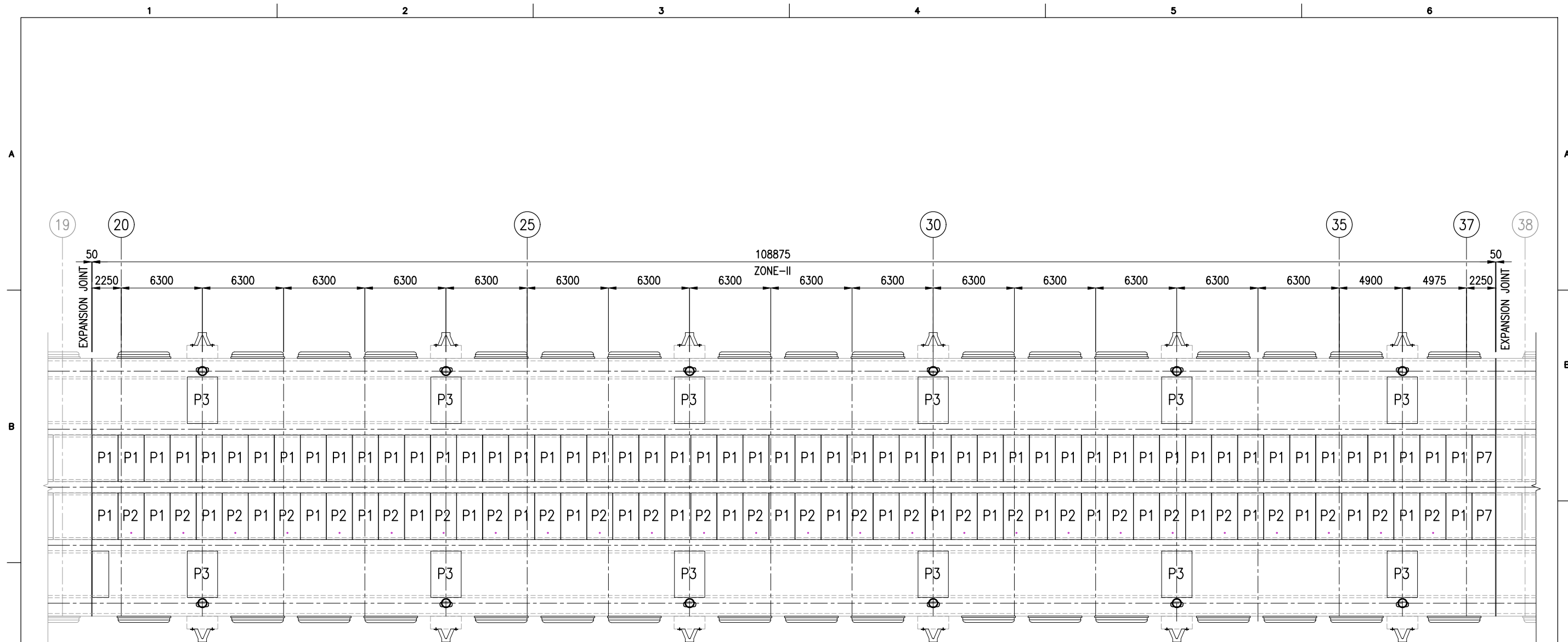
PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
P1	2000	3600	200	3.60	96
P2	2000	3600	200	3.59	24
P3	2360	3600	200	4.25	10
P4	1730	3600	200	3.11	2
P5	1320	3600	200	2.38	2
P6	2960	3600	200	5.33	2
P11	2570	3600	200	4.62	3
P12	2570	3600	200	4.62	1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+) 8.630 (SHEET 1 OF 8)				
DRAWING NO. IITM-DPA-VAD-DWG-106-01			DATE: 20.05.26	REV: B





PRECAST SLAB LAYOUT FOR TOP DECK AT EL(+). 8.63m
ZONE-II
(SCALE 1:300)

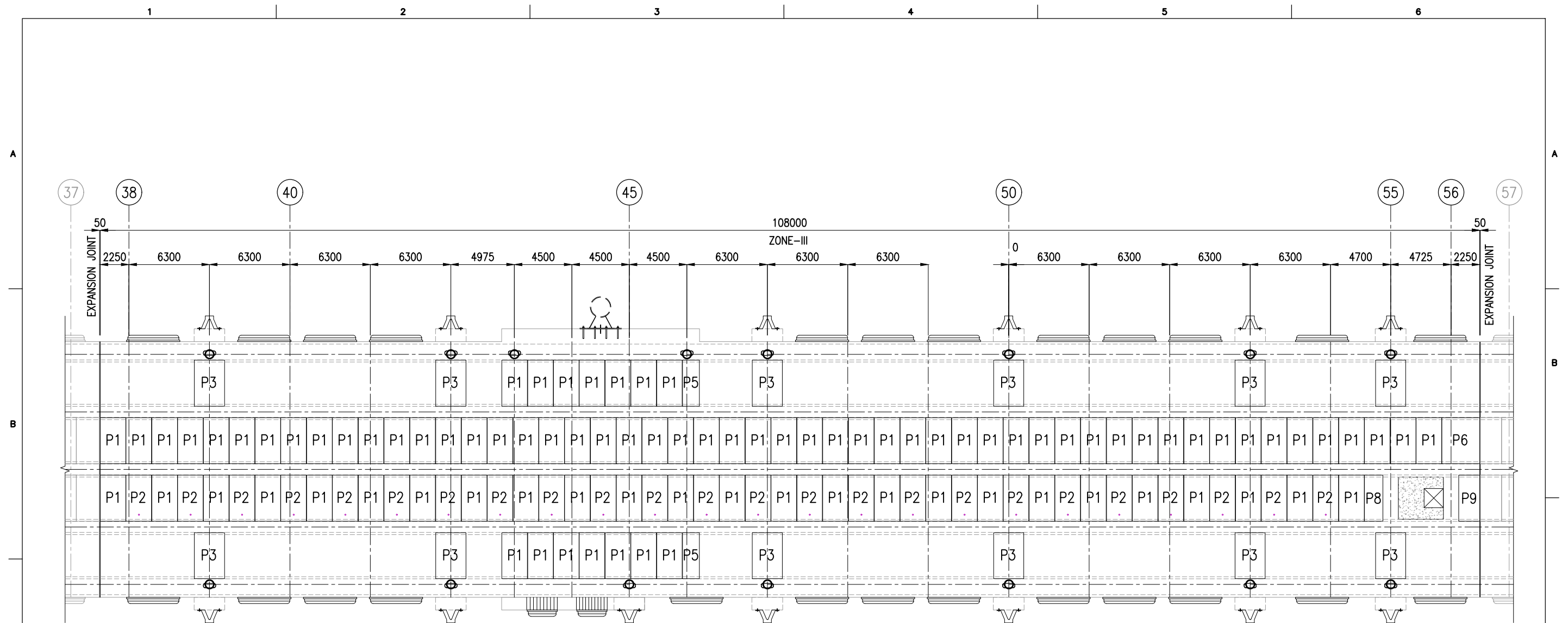
PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
P1	2000	3600	200	3.60	80
P2	2000	3600	200	3.59	26
P3	2360	3600	200	4.25	12
P7	1815	3600	200	3.27	2

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+). 8.630 (SHEET 2 OF 8)				
DRAWING NO. IITM-DPA-VAD-DWG-106-02			DATE: 20.05.26	REV: B





PRECAST SLAB LAYOUT FOR TOP DECK AT EL(+) 8.63m
ZONE-III
 (SCALE 1:300)

PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
P1	2000	3600	200	3.60	91
P2	2000	3600	200	3.59	24
P3	2360	3600	200	4.25	12
P5	1320	3600	200	2.38	2
P6	2960	3600	200	5.33	1
P8	1445	3600	200	2.60	1
P9	1650	3600	200	2.97	1

NOTES:

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2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
<p>CONSULTANT:</p>  <p>PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI</p>				
<p>OWNER:</p>  <p>DEENDAYAL PORT AUTHORITY</p>				
<p>PROJECT:</p> <p>DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.</p>				
<p>TITLE:</p> <p><u>OUTFITTING JETTY- 1 & 2</u> LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+8.630 (SHEET 3 OF 8))</p>				
DRAWING NO. IITM-DPA-VAD-DWG-106-03			DATE: 20.05.26	REV: B





PRECAST SLAB LAYOUT FOR TOP DECK AT EL(+) 8.63m
ZONE-IV
 (SCALE 1:300)

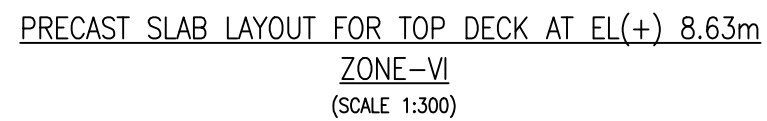
PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
P1	2000	3600	200	3.60	90
P2	2000	3600	200	3.59	24
P3	2360	3600	200	4.25	12
P5	1320	3600	200	2.38	2
P6	2960	3600	200	5.33	1
P9	1650	3600	200	2.97	1
P10	1890	3600	200	3.40	1

NOTES:



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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

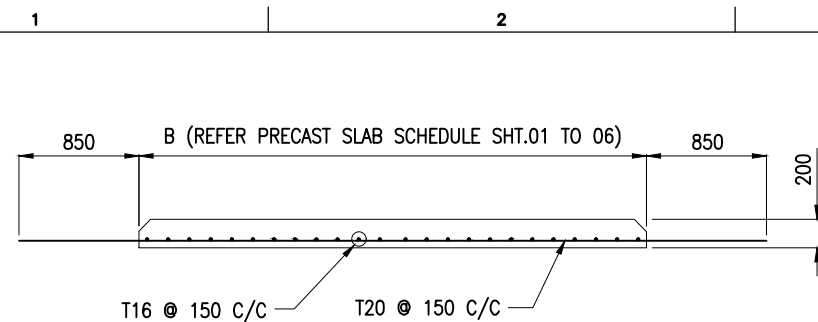
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+)<u>8.630</u> (SHEET 4 OF 8)				
DRAWING NO. IITM-DPA-VAD-DWG-106-04			DATE: 20.05.26	REV: B



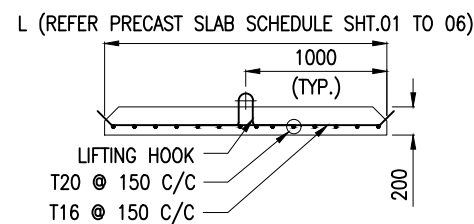
TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
P1	2000	3600	200	3.60	92
P2	2000	3600	200	3.59	26
P3	2360	3600	200	4.25	10
P5	1320	3600	200	2.38	2
P6	2960	3600	200	5.33	2

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2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

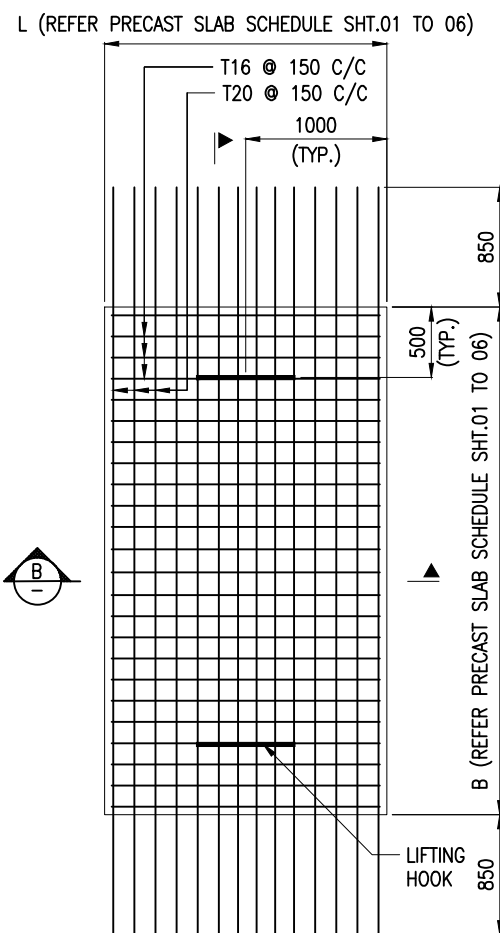
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+)<u>8.630</u> (SHEET 6 OF 8)				
DRAWING NO. IITM-DPA-VAD-DWG-106-06			DATE: 20.05.26	REV: B



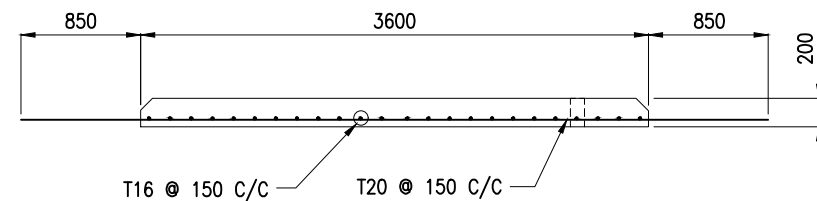
SECTION A
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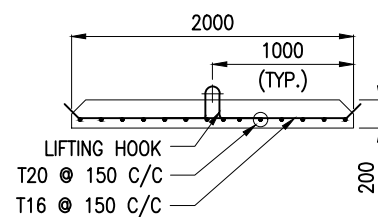
SECTION B
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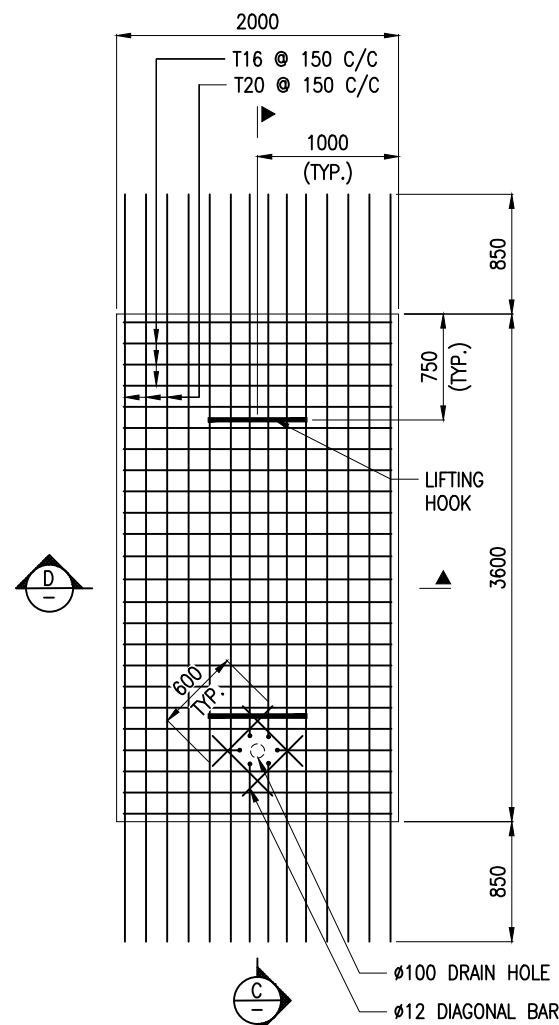
DETAILS OF PRECAST SLAB P1,P3,P4,P5,P6,P7
(SCALE 1:50)



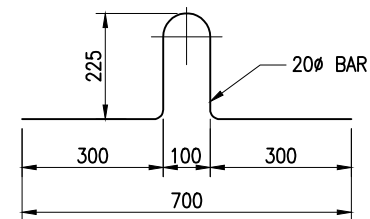
SECTION C
(SCALE 1:50)



SECTION D
(SCALE 1:50)



DETAILS OF PRECAST SLAB P2
(SCALE 1:50)

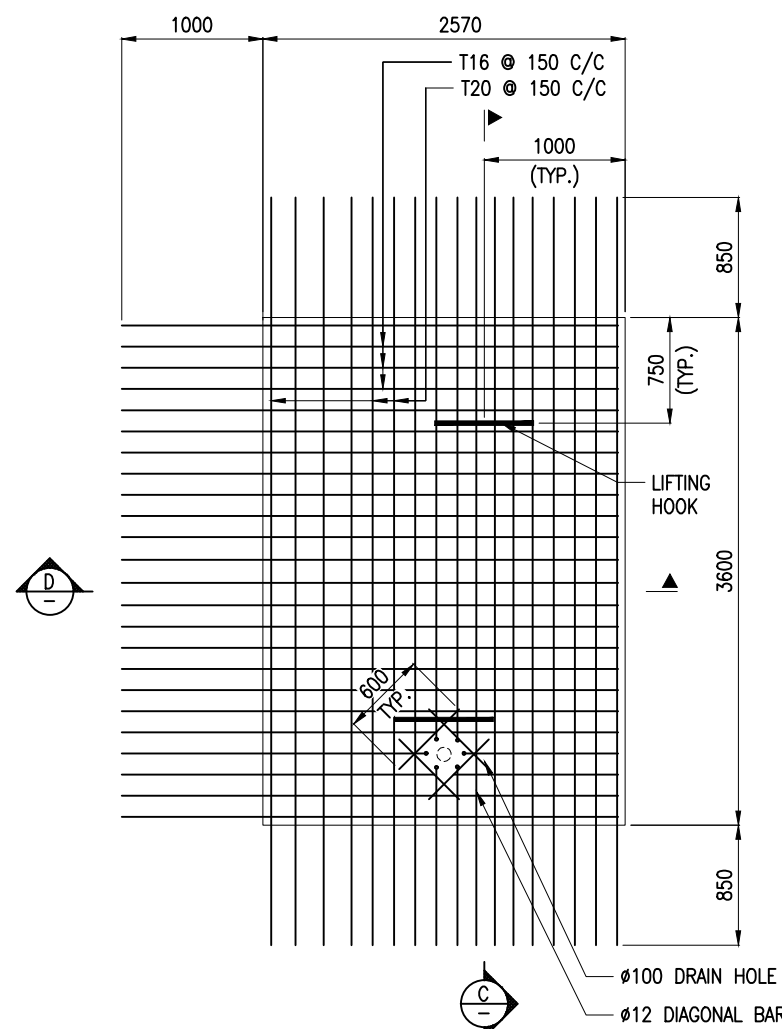
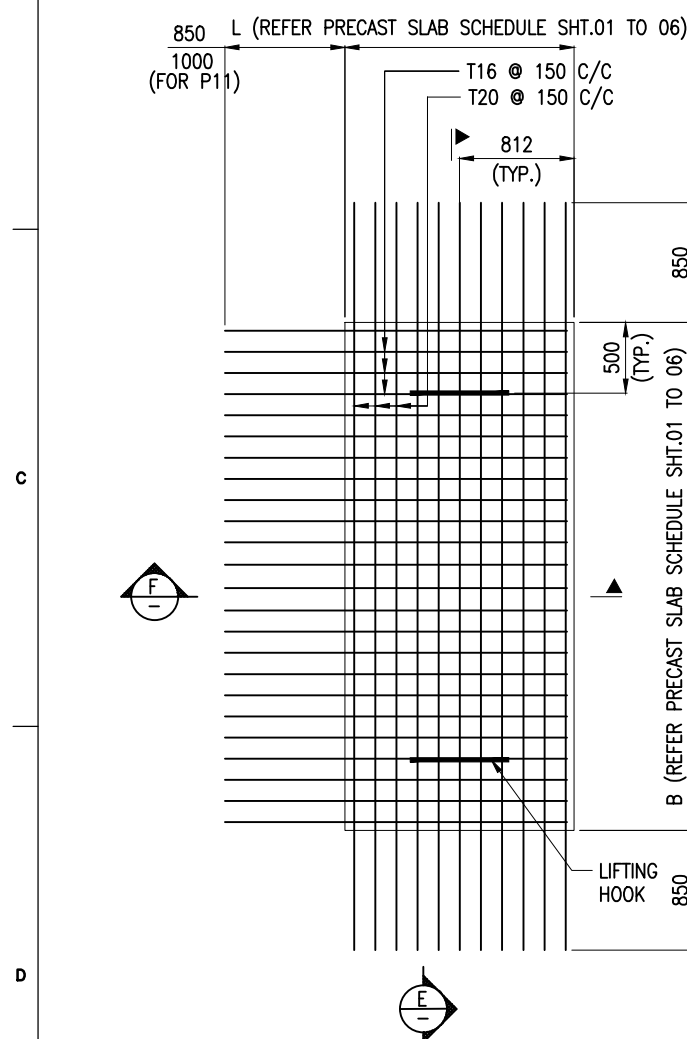
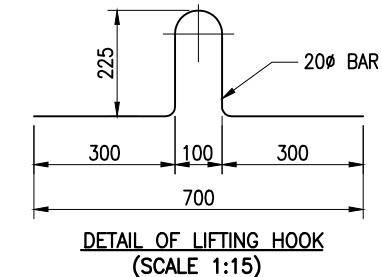
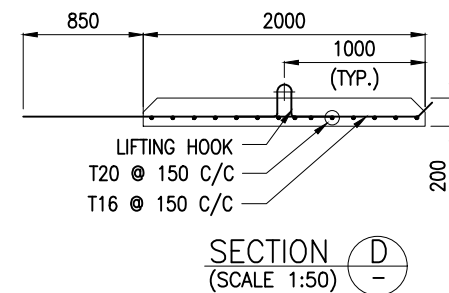
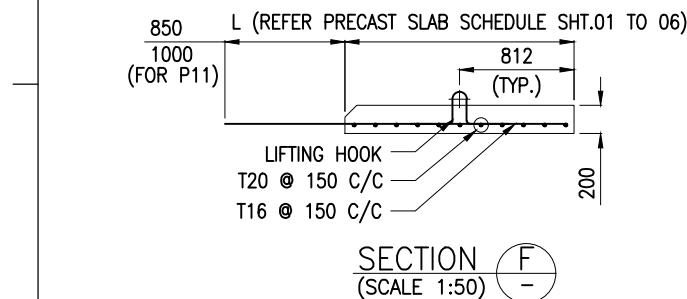
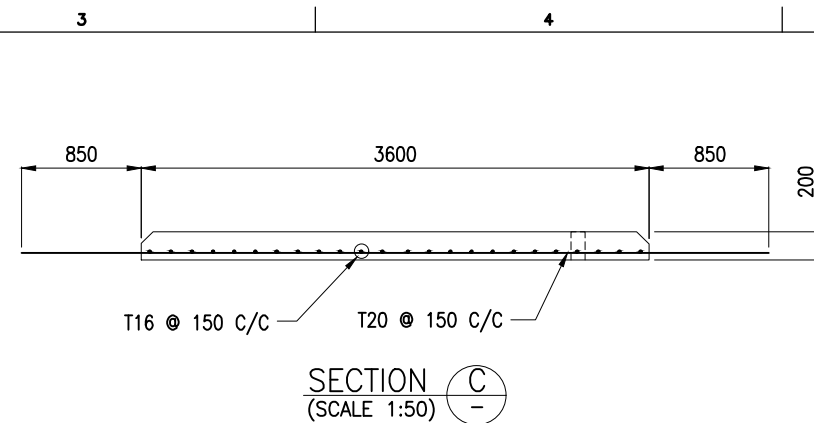
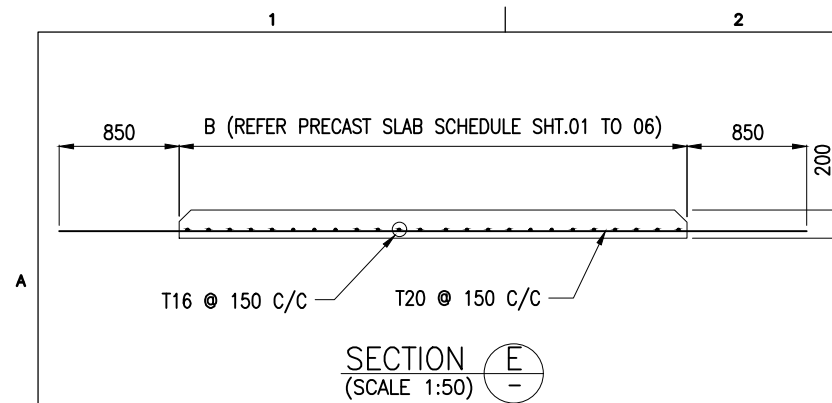


DETAIL OF LIFTING HOOK
(SCALE 1:15)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

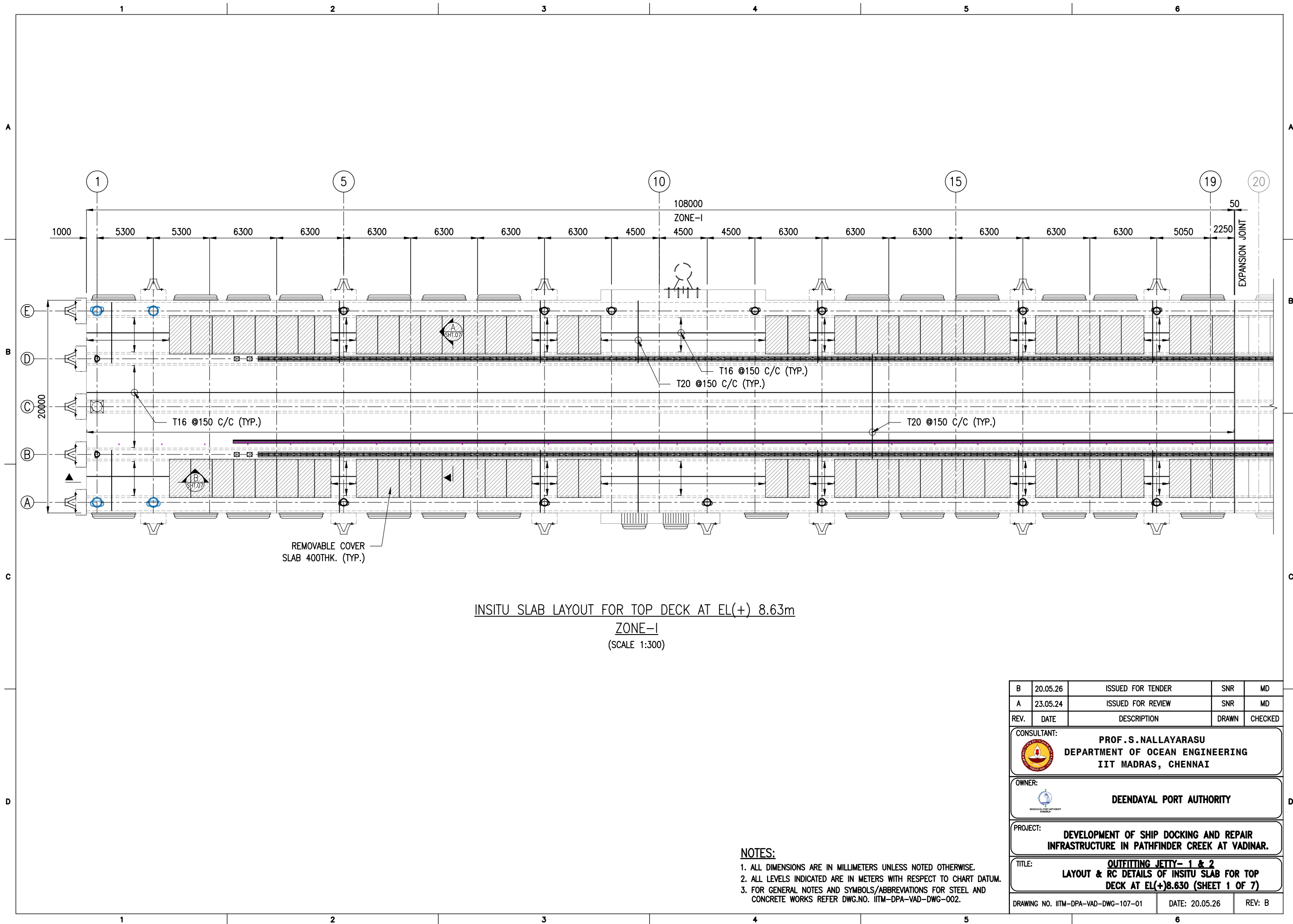
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+)8.630 (SHEET 7 OF 8)				
DRAWING NO. IITM-DPA-VAD-DWG-106-07		DATE: 20.05.26		REV: B

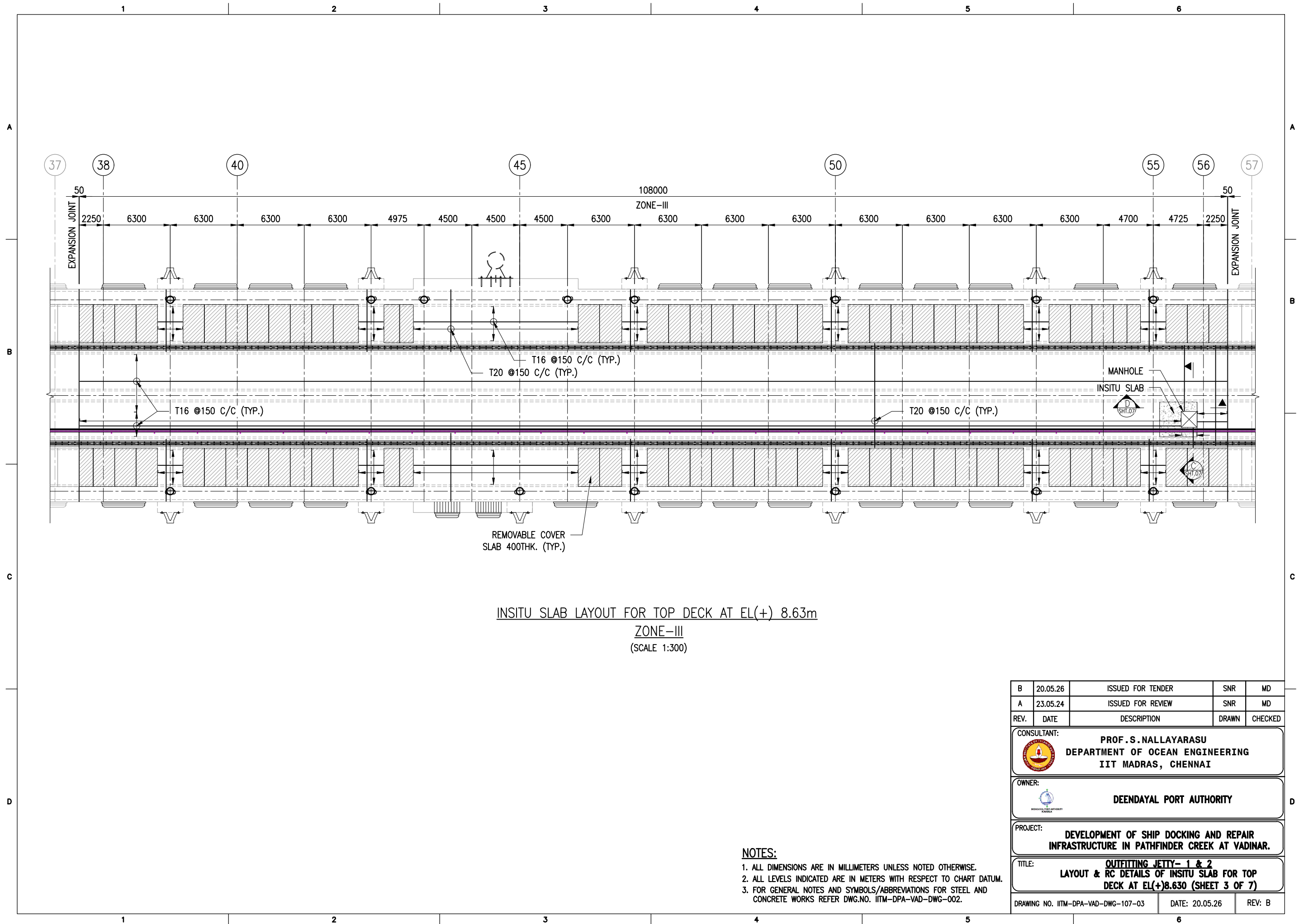


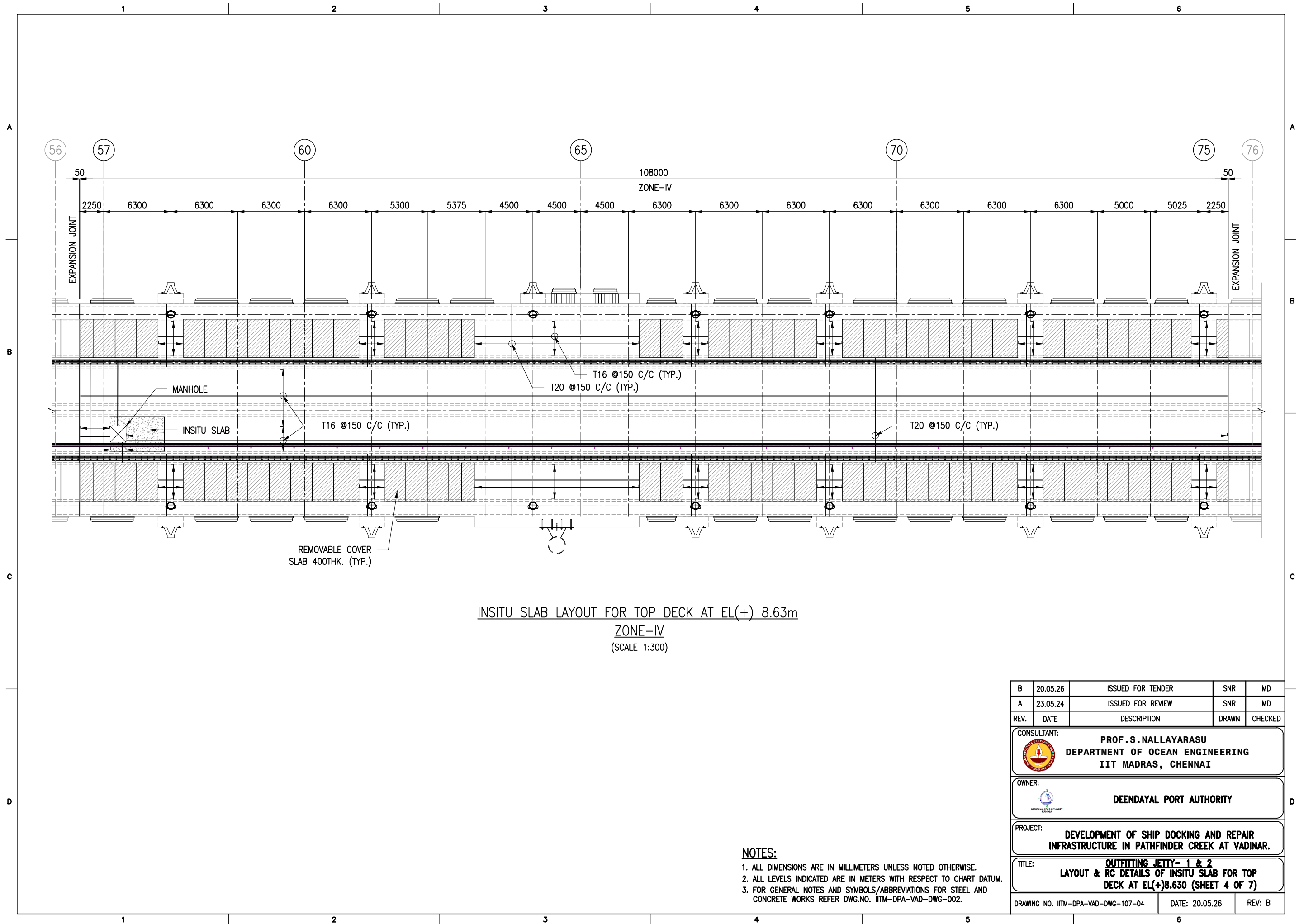
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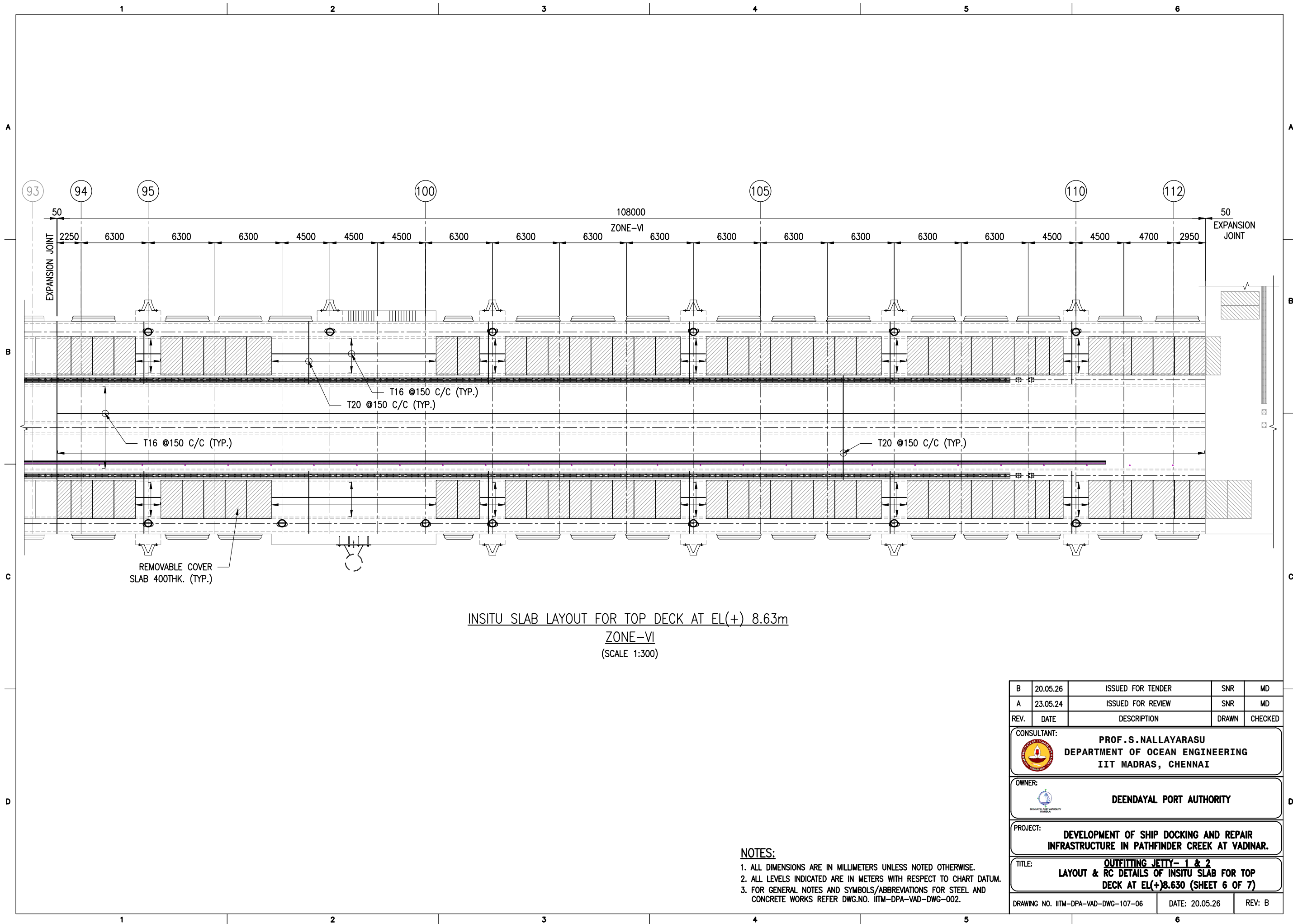
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

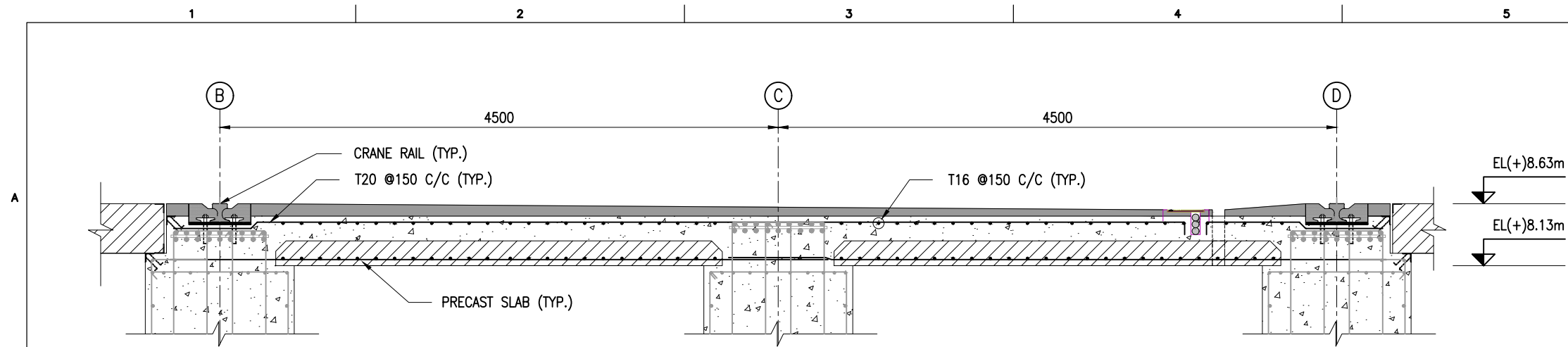
B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & RC DETAILS OF PRECAST SLAB FOR TOP DECK AT EL(+)8.630 (SHEET 8 OF 8)				
DRAWING NO. IITM-DPA-VAD-DWG-106-08			DATE: 20.05.26	REV: B



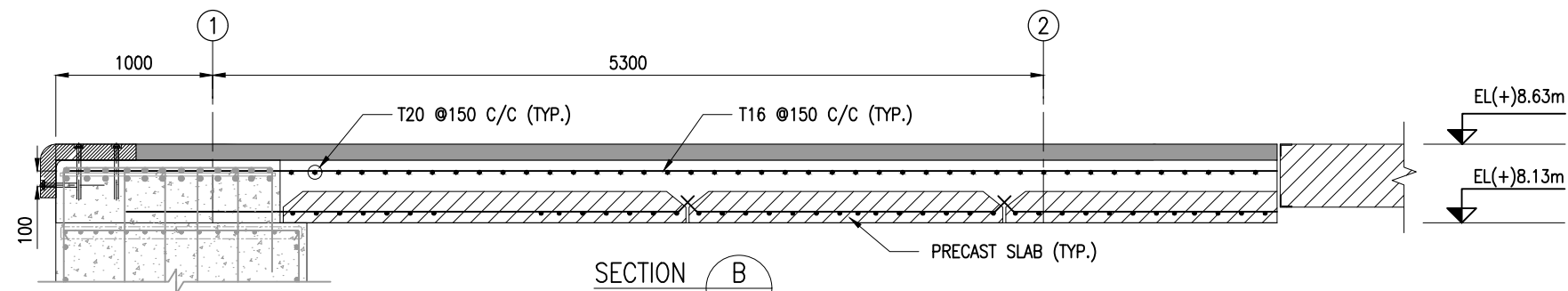




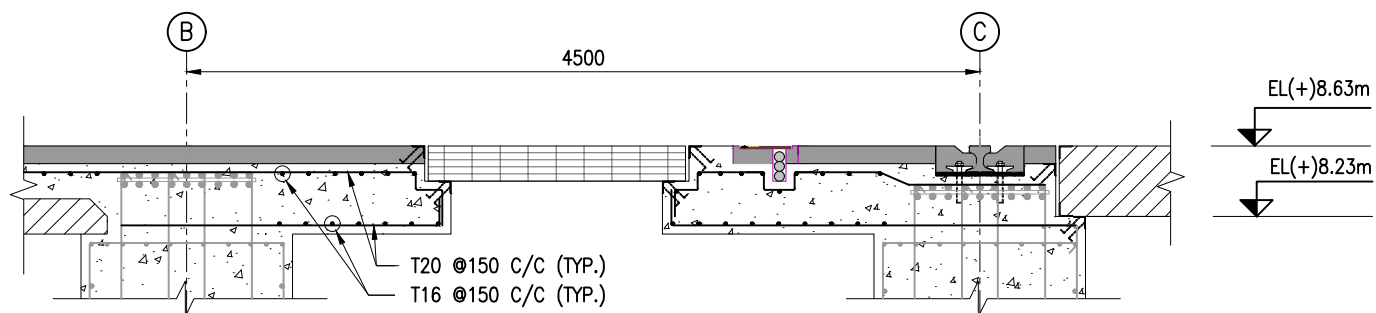




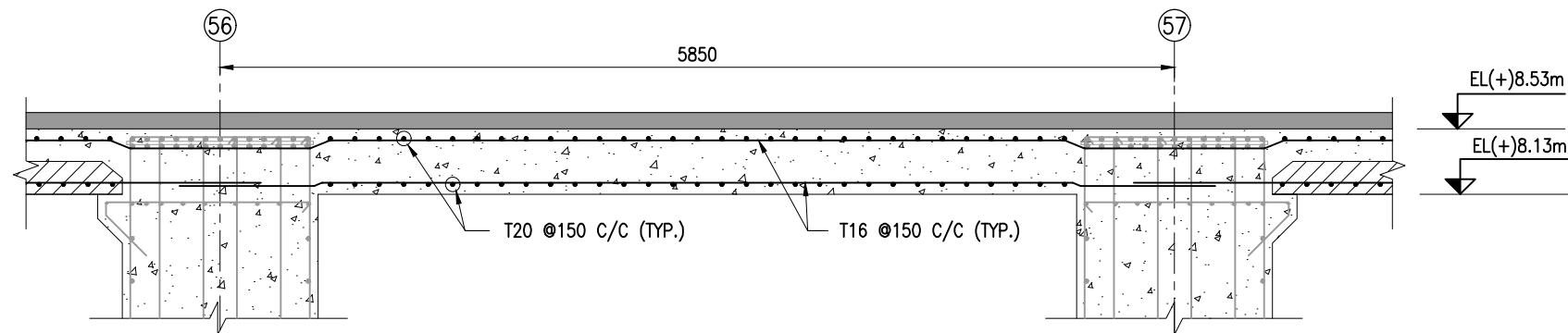
SECTION A
SCALE 1:40
SHT.01



SECTION B
SCALE 1:40
SHT.01



SECTION C
SCALE 1:40
SHT.03

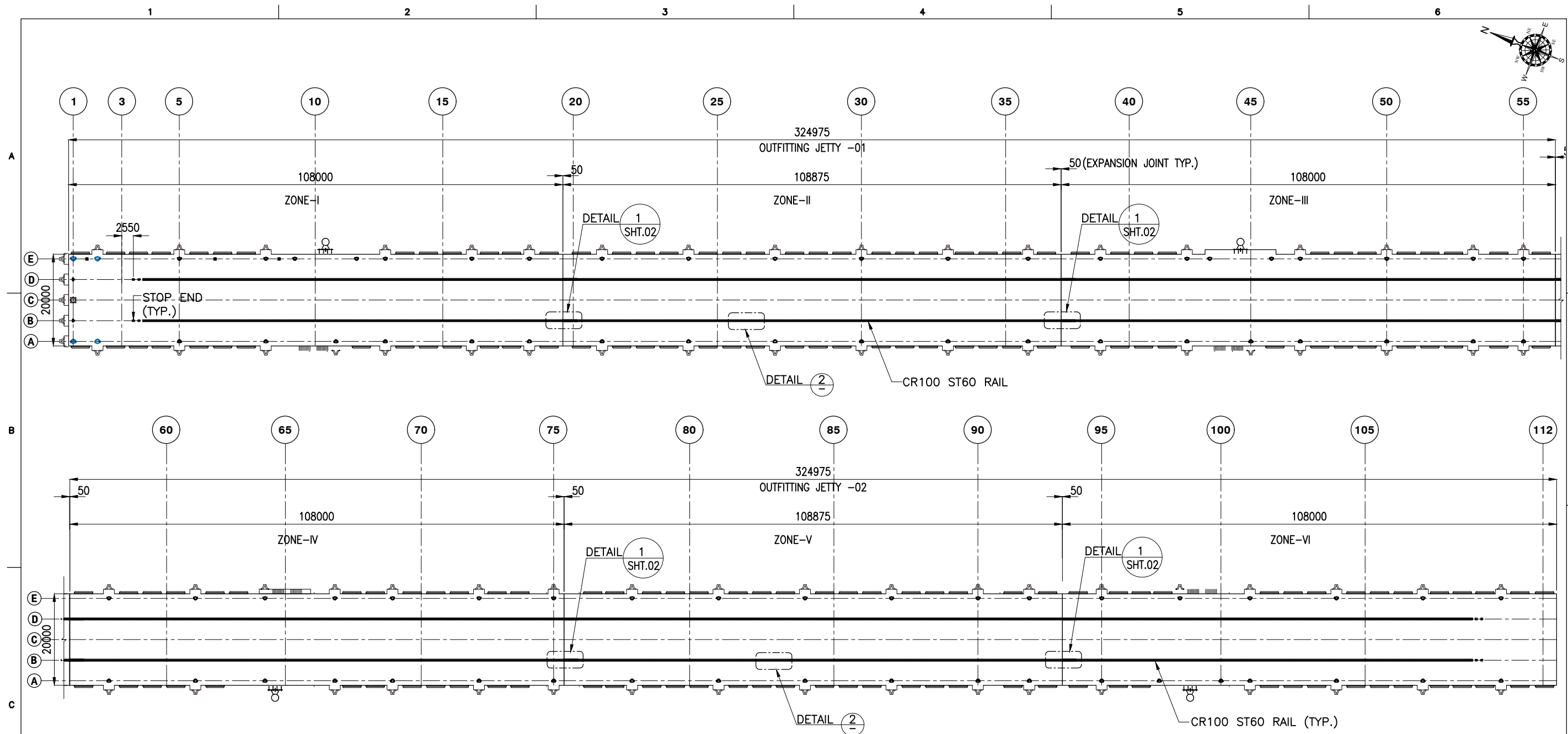


SECTION D
SCALE 1:40
SHT.03

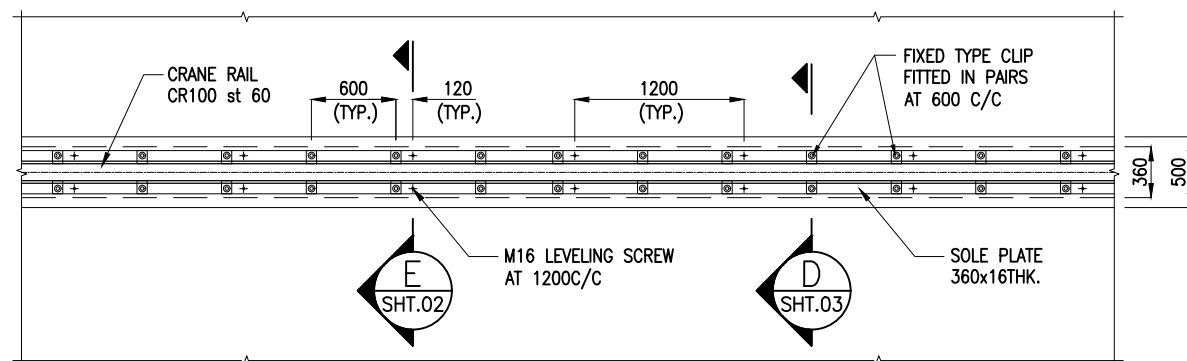
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SNR	MD
A	23.05.24	ISSUED FOR REVIEW	SNR	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: GENERAL ARRANGEMENT OF OUTFITTING JETTY-1&2 (SHEET 7 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-107-07			DATE: 20.05.26	REV: B



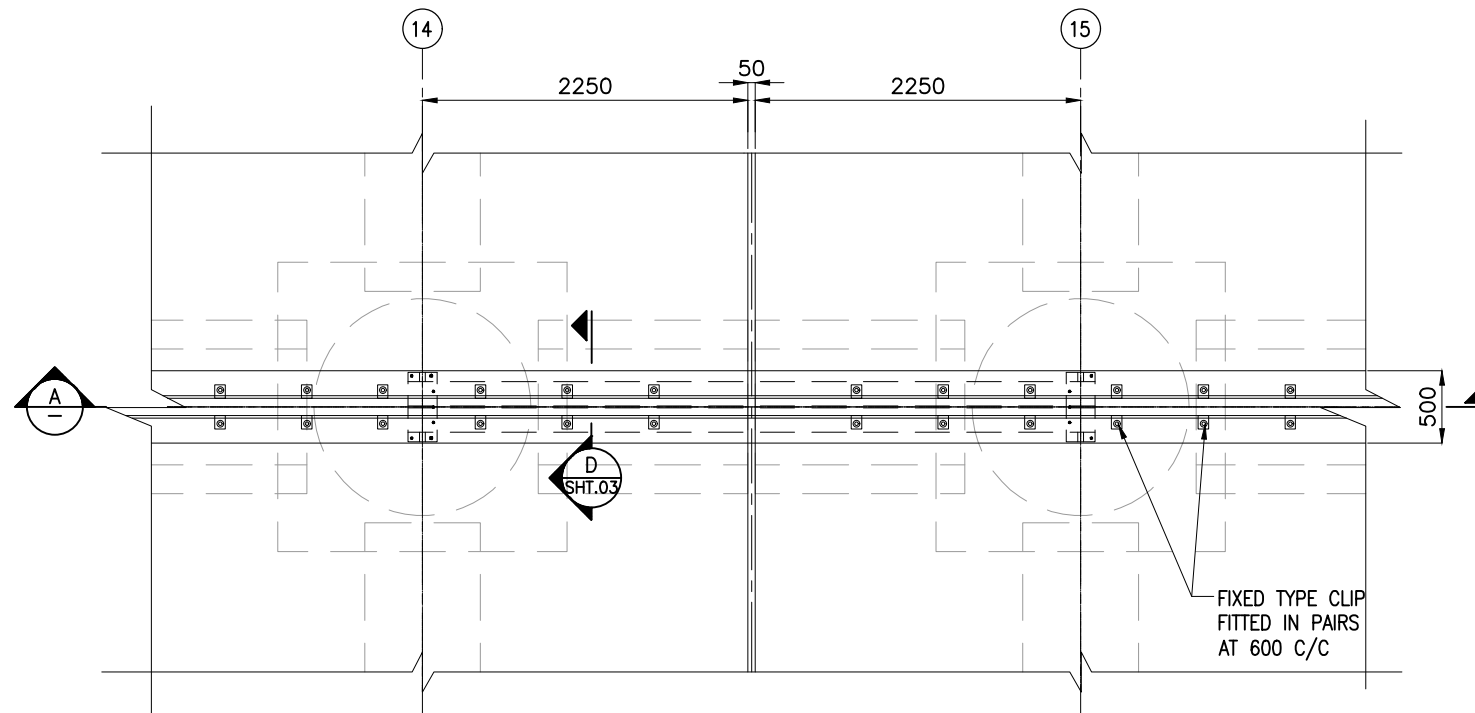
LAYOUT OF CRANE RAIL FOR OUTFITTING JETTY 1 & 2
(SCALE 1:850)



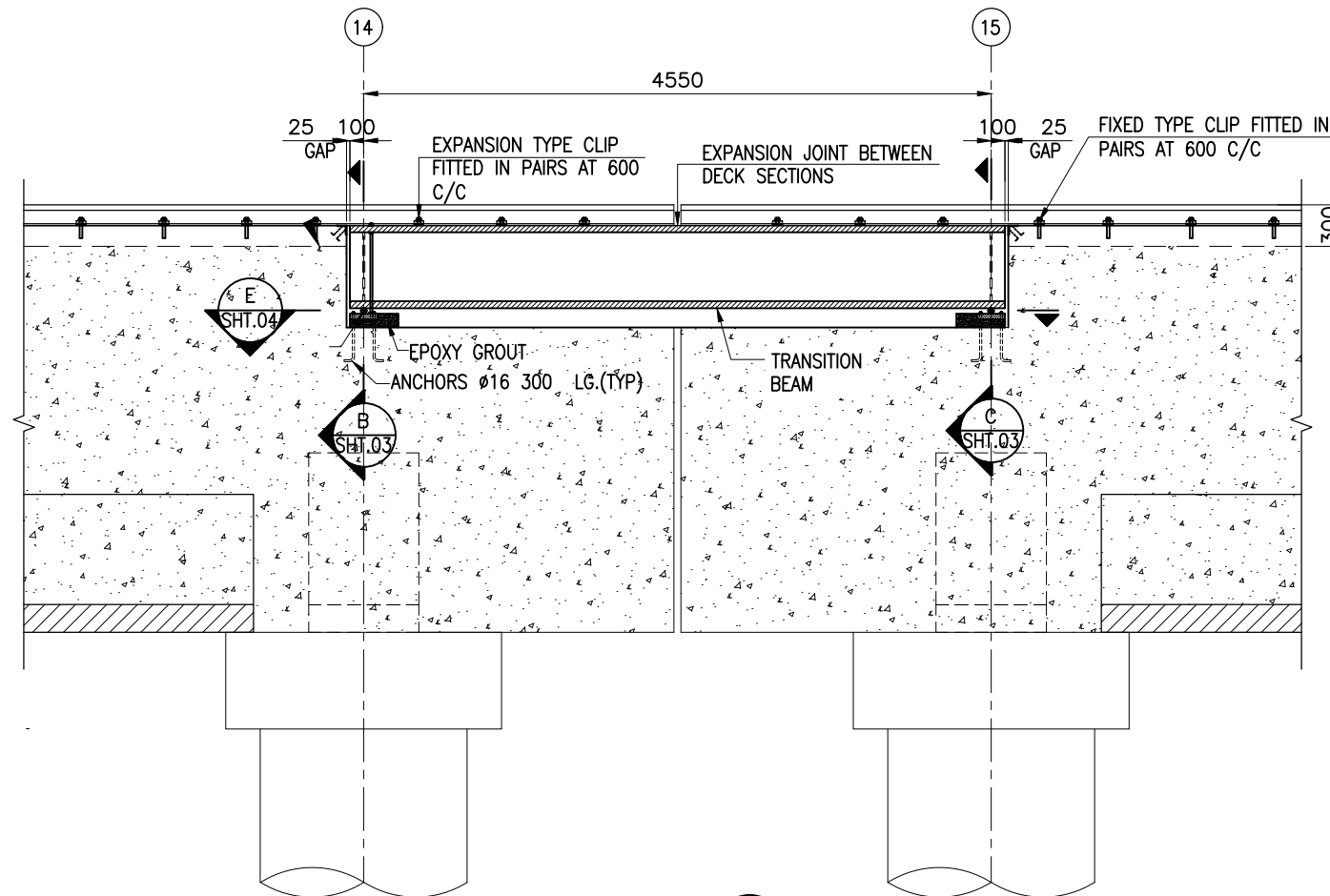
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 CRANE RAIL LAYOUT AND DETAIL (SHEET 1 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-108-01		DATE: 20.05.26		REV: B





DETAIL 1
(SCALE 1:35) SHT.01

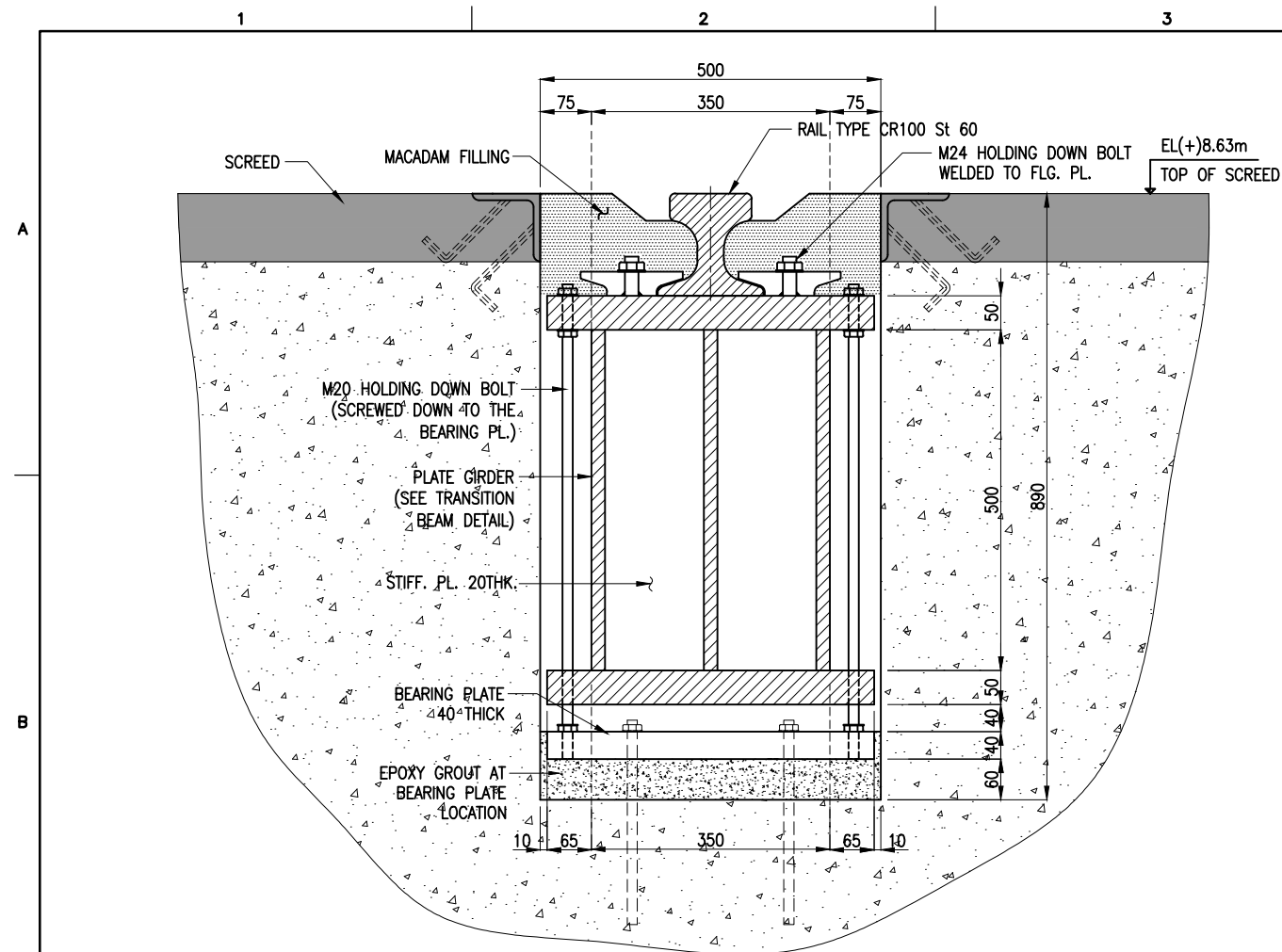


SECTION A
(SCALE 1:35)

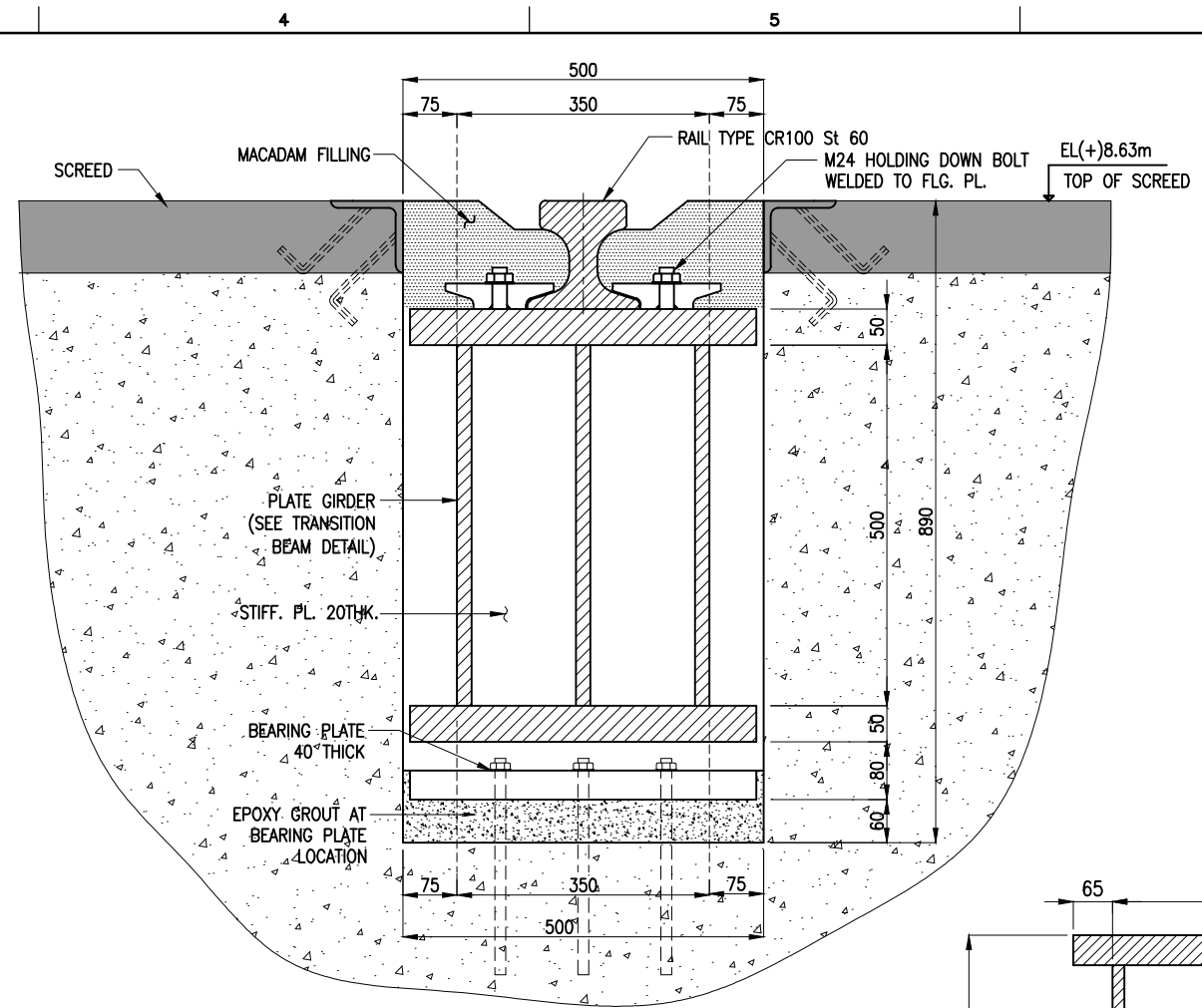
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
4. STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - a) ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'C250' - $F_y=250\text{MPa}$.
 - b) EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' - $F_y=350\text{MPa}$.
5. ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 (GRADE 8.8 AS PER IS1367 PART 3).
6. ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.
7. EPOXY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 100MPa.

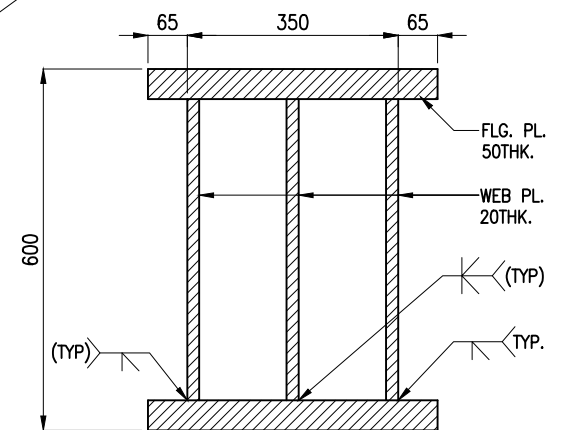
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 CRANE RAIL LAYOUT AND DETAIL (SHEET 2 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-108-02		DATE: 20.05.26		REV: B



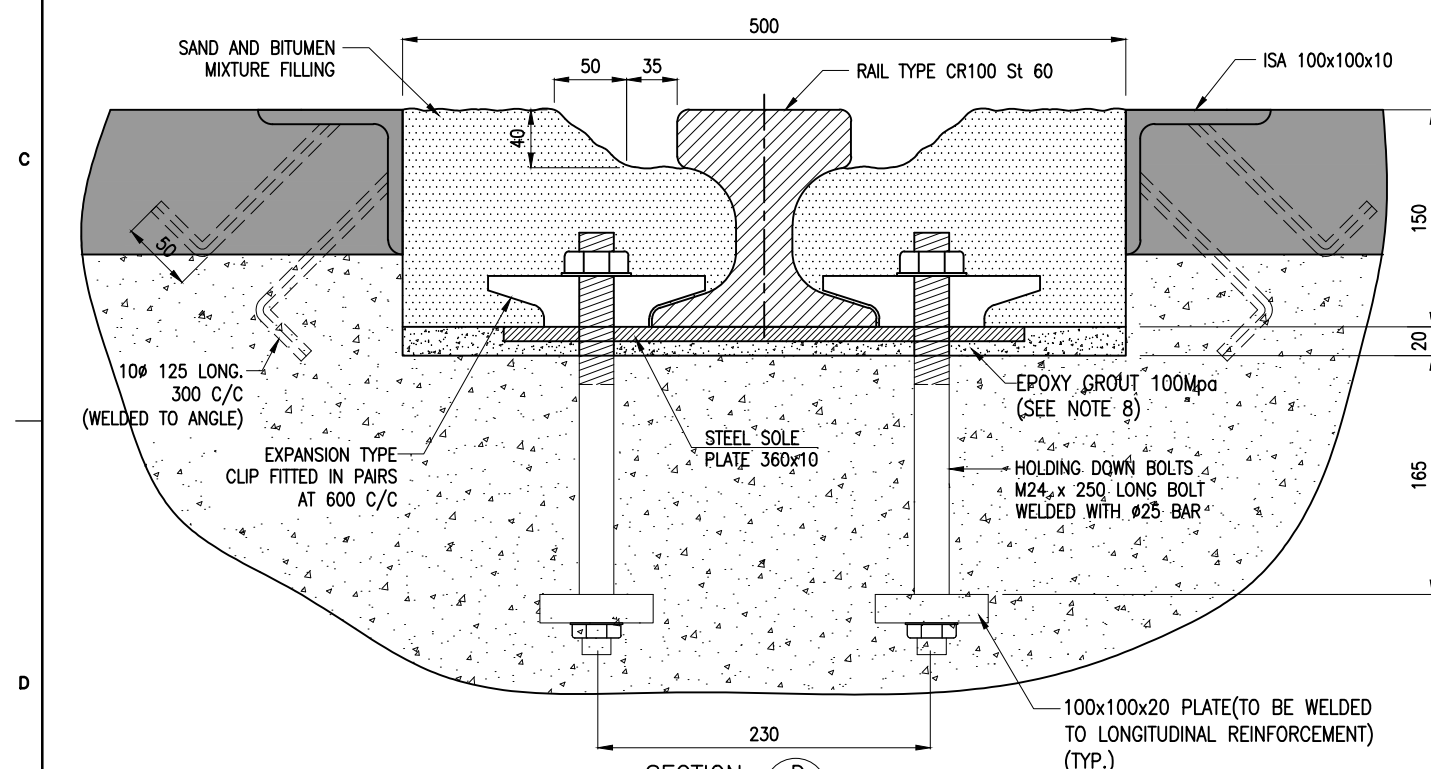
SECTION B (AT FIXED SUPPORT)
(SCALE 1:10) SHT.02



SECTION C (AT SLIDING SUPPORT)
(SCALE 1:10) SHT.02



TRANSITION BEAM DETAIL
(PLATE GIRDER)

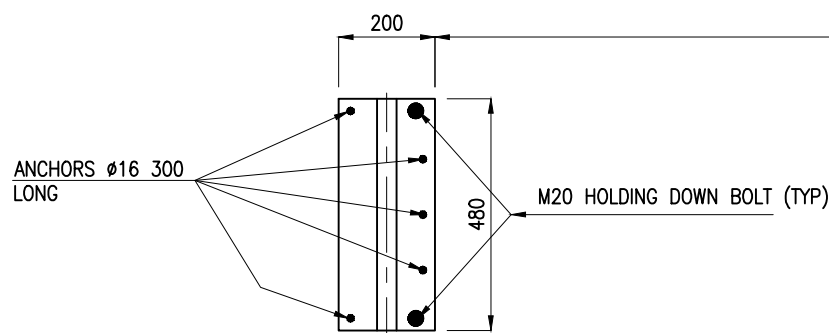
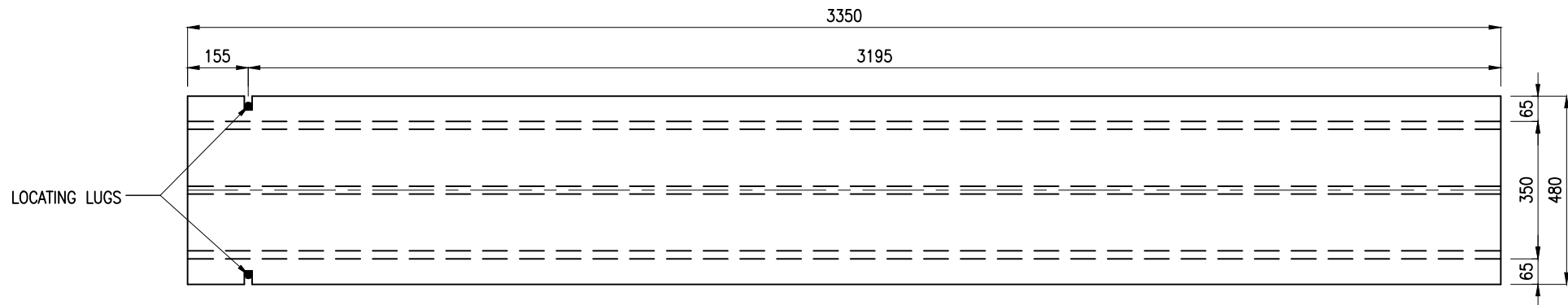


SECTION D (RAIL IN RECESS)
(SCALE 1:5) SHT.02

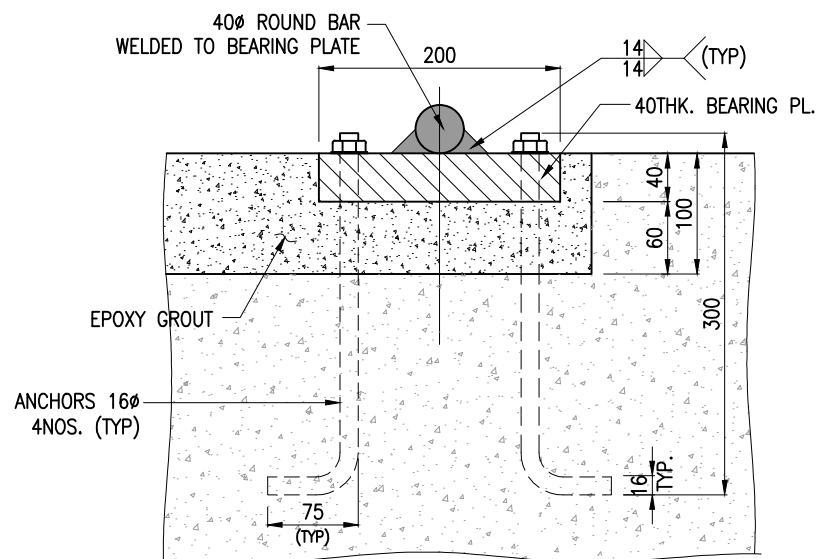
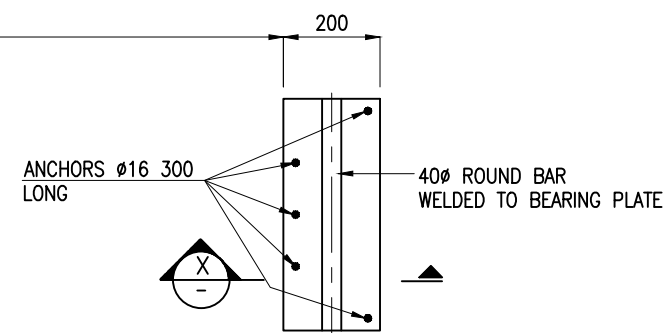
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- CONCRETE GRADE FOR ALL RC STRUCTURE SHALL BE M40 WITH MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF 40 MPa.
- STEEL GRADE FOR ALL REINFORCEMENT USED IN RC STRUCTURES SHALL BE CORROSION RESISTANT STEEL WITH A MINIMUM YIELD STRENGTH OF 500 MPa (Fe 500)
- STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'E250' - $F_y=250\text{MPa}$.
 - EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' - $F_y=350\text{MPa}$.
- ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 (GRADE 8.8 AS PER IS1367 PART 3).
- ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.
- EPOXY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 100MPa.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 CRANE RAIL LAYOUT AND DETAIL (SHEET 3 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-108-03			DATE: 20.05.26	REV: B





TOP VIEW OF BEARING PLATES
(SCALE 1:15)

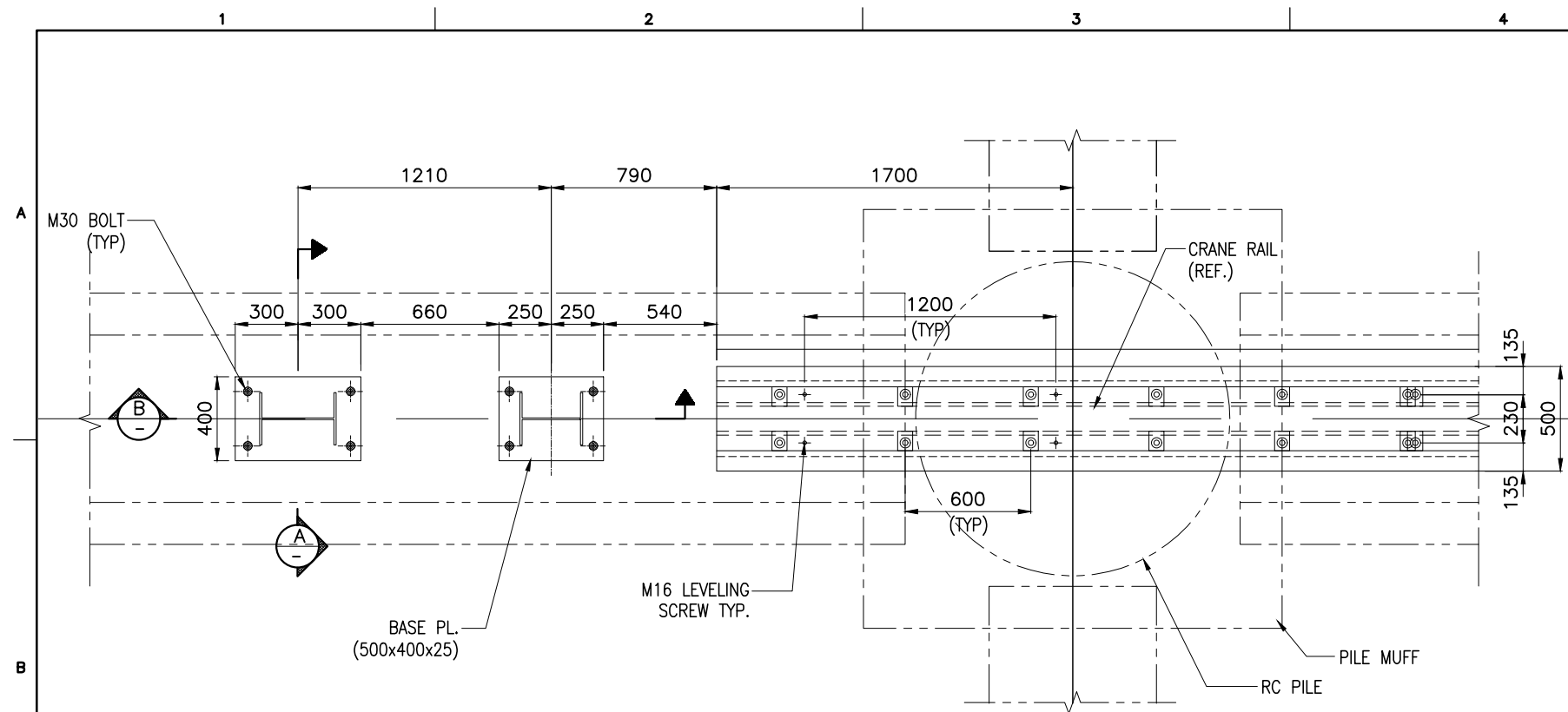


SECTION (X)
(SCALE 1:5)

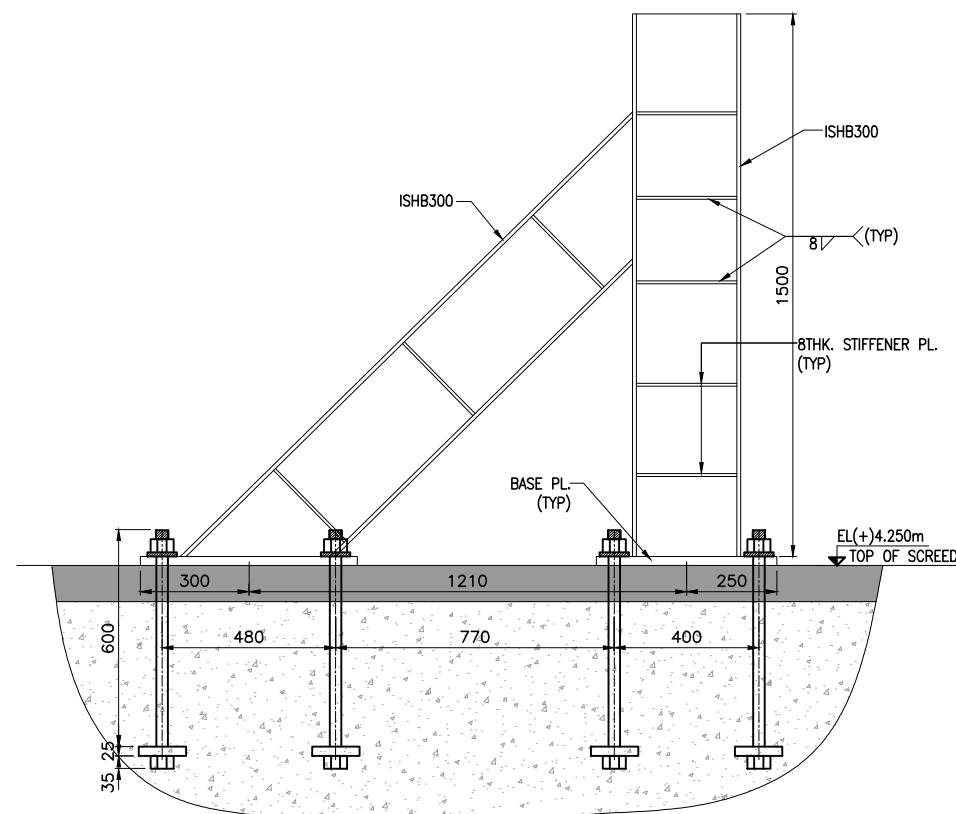
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
- STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I – IS2062 GRADE 'C250' – $F_y=250\text{MPa}$.
 - EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II – IS2062 GRADE 'E350' – $F_y=350\text{MPa}$.
- ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 GRADE 8.8.
- ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 CRANE RAIL LAYOUT AND DETAIL (SHEET 4 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-108-04		DATE: 20.05.26		REV: B



BUFFER STAND
SCALE 1:30



VIEW (B)
SCALE 1:25

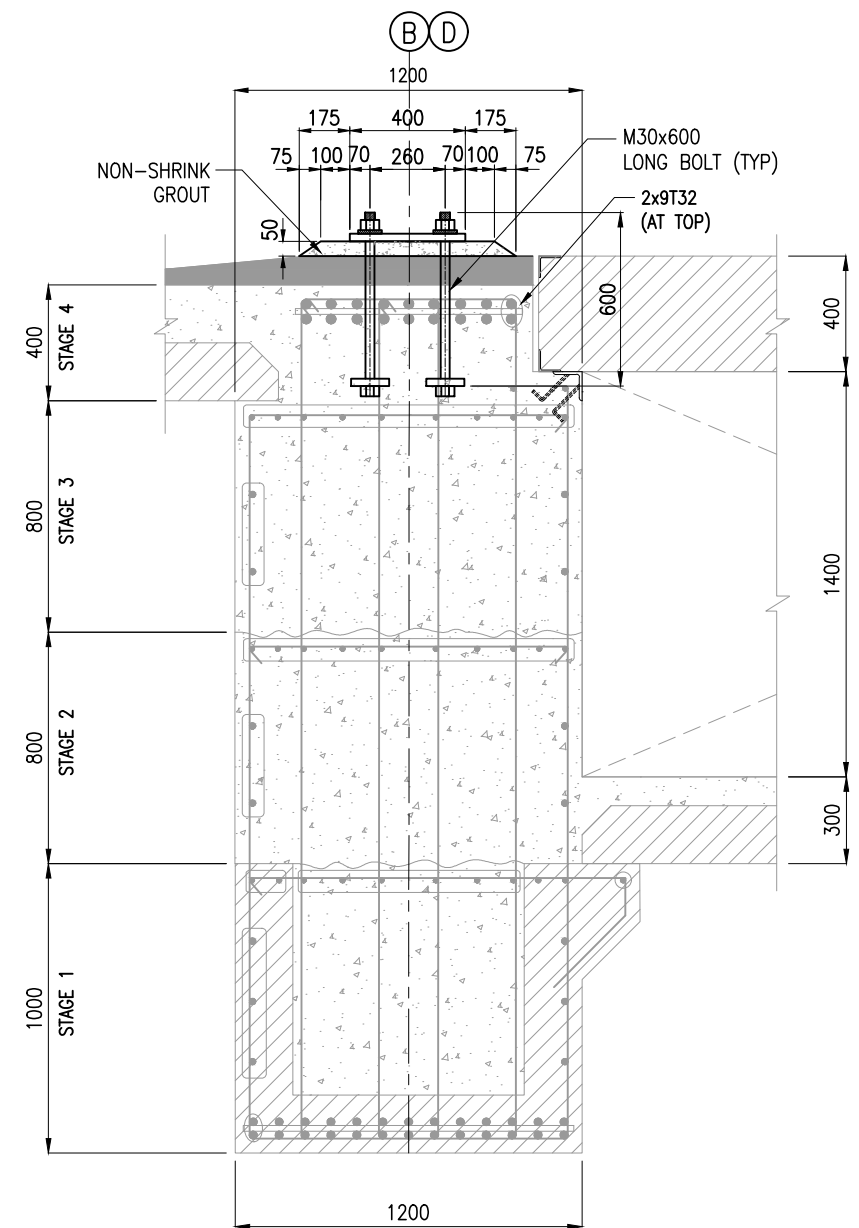
POSITION, SIZE, NUMBER OF BOLTS, SPACING OF BOLTS ON HOLD PENDING DETAILS FROM VENDOR.

LEGEND:

- PRECAST
- IN-SITU

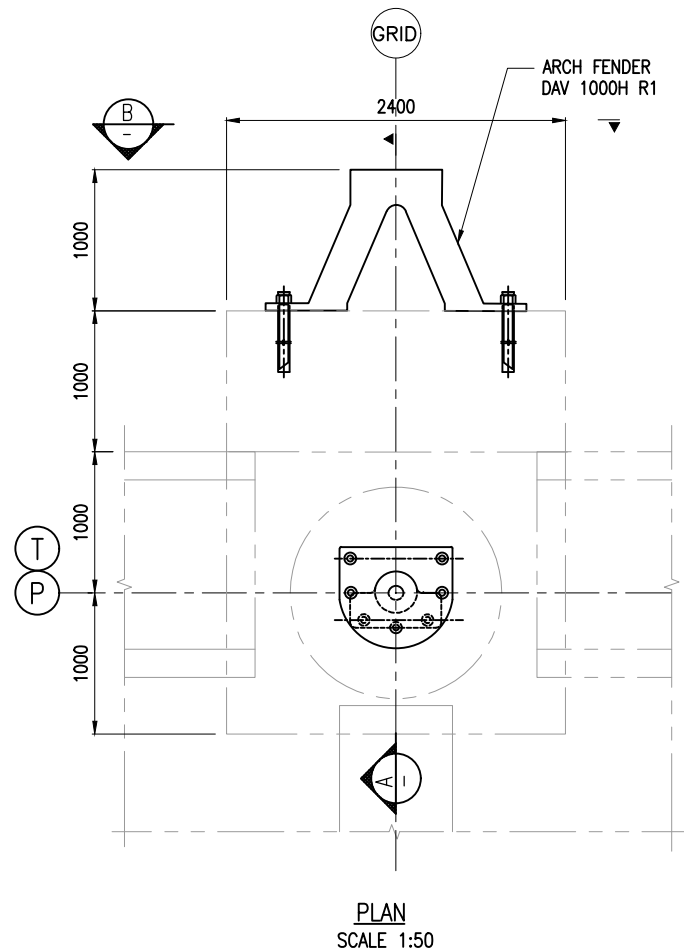
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
4. STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - a) ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'C250' - $F_y=250\text{MPa}$.
 - b) EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' CLASS C - $F_y=350\text{MPa}$.
5. ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 GRADE 8.8.
6. ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.



SECTION (A)
SCALE 1:25

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 CRANE RAIL LAYOUT AND DETAIL (SHEET 5 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-108-05			DATE: 20.05.26	REV: B

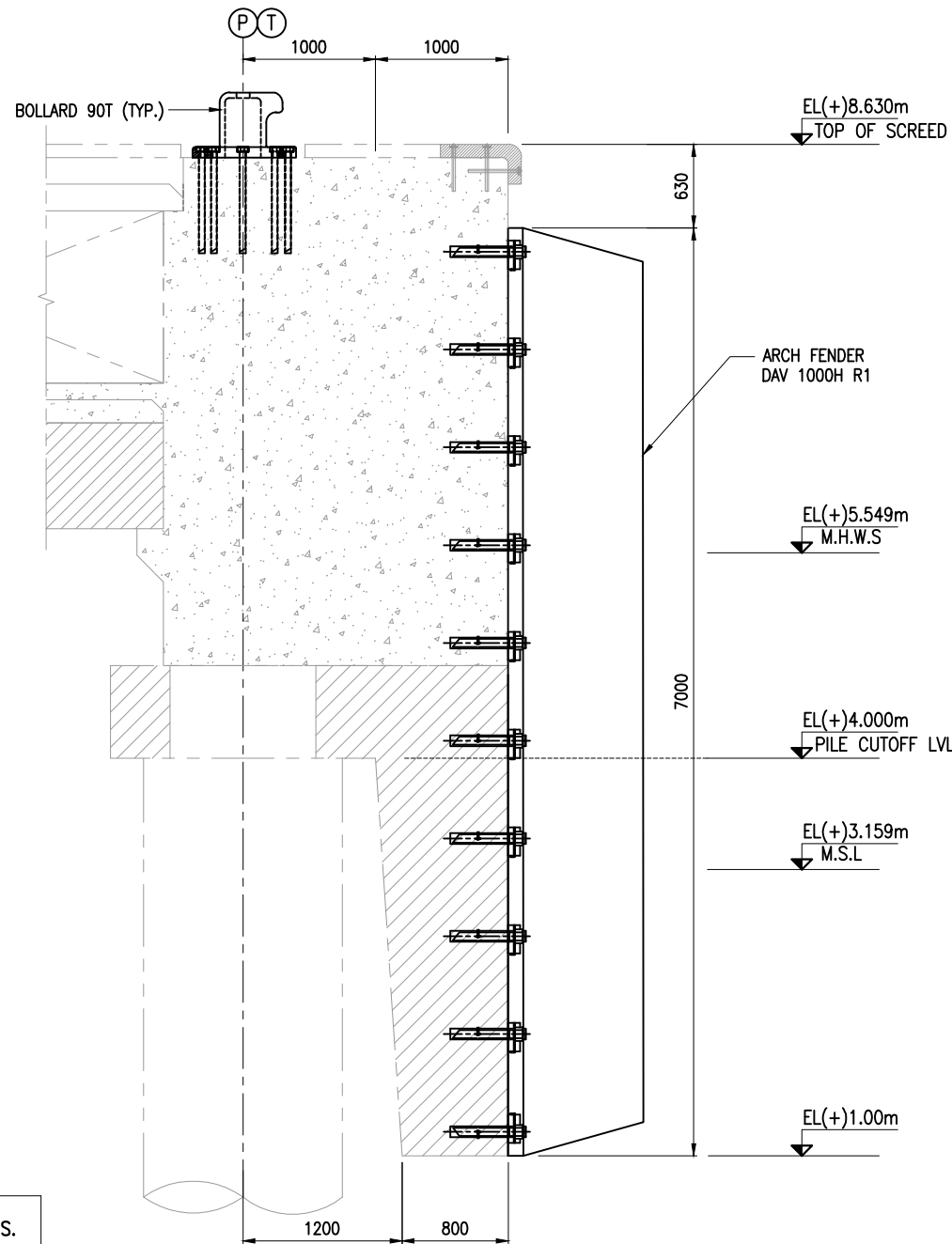


SCHEDULE FOR FENDER

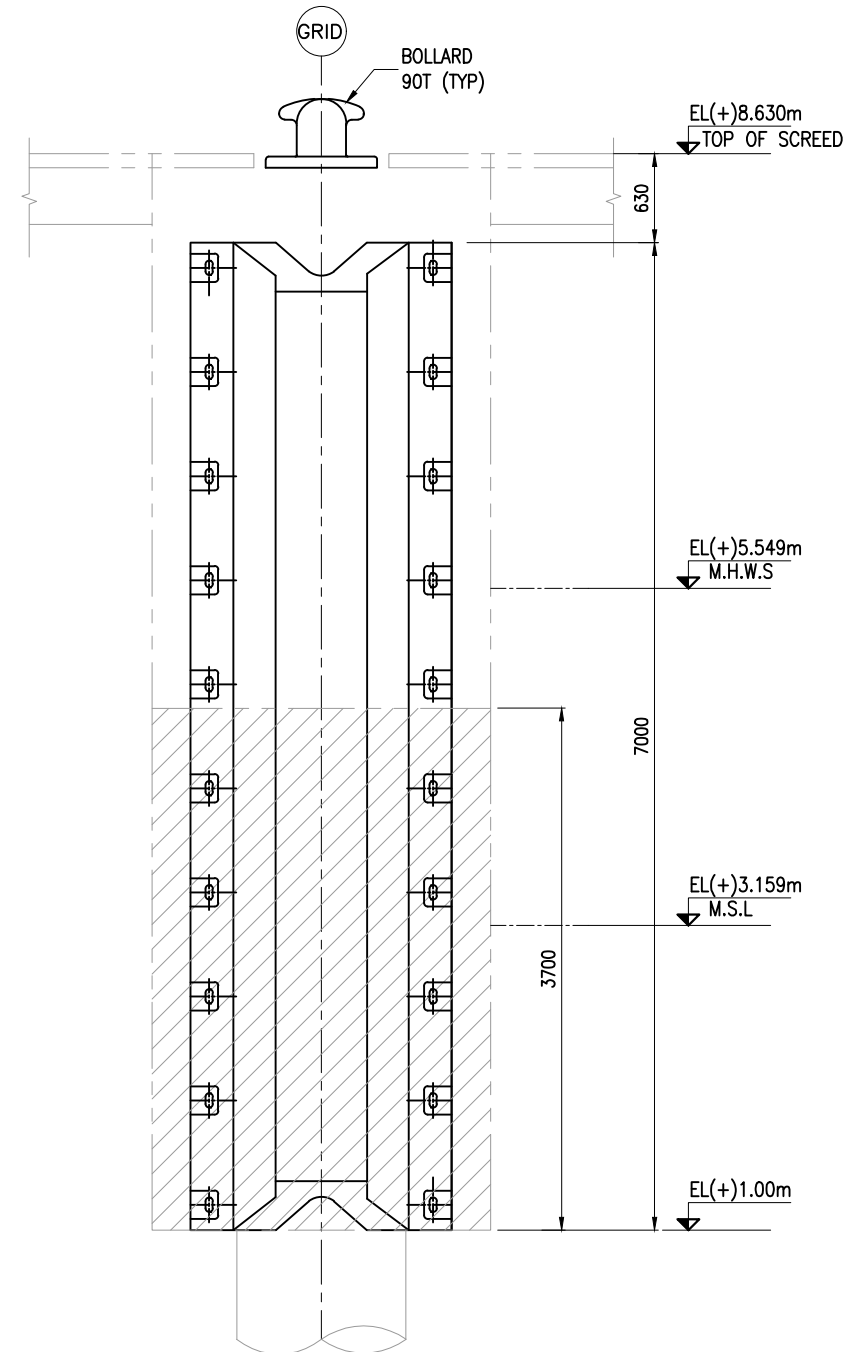
GRID	FENDER AT GRID LOCATION	NOS.
A	1,2,5,8,13,16,18,21,24,27,30,33,36,39,42,45,47,50,53,55,58,61,67,69,72,75,76,81,84,87,90,92,95,101,104,107,110.	37
B	1	1
D	1	1
E	1,2,5,8,13,16,18,21,24,27,30,33,36,39,42,47,50,53,55,58,61,64,67,69,72,75,78,81,84,87,90,92,95,98,101,104,107,110.	38

SCHEDULE FOR BOLLARD

GRID	BOLLARD AT GRID LOCATION	NOS.
A	1,2,5,8,11,13,16,18,21,24,27,30,33,36,39,42,43,45,47,50,53,55,58,61,64,67,69,72,75,78,81,84,87,90,92,95,97,100,101,104,107,110.	42
B	1	1
D	1	1
E	1,2,5,8,9,13,16,18,21,24,27,30,33,36,39,42,43,46,47,50,53,55,58,61,64,67,69,72,75,78,81,84,87,90,92,95,98,101,104,107,110.	43



SECTION A-A
(SCALE 1:50)

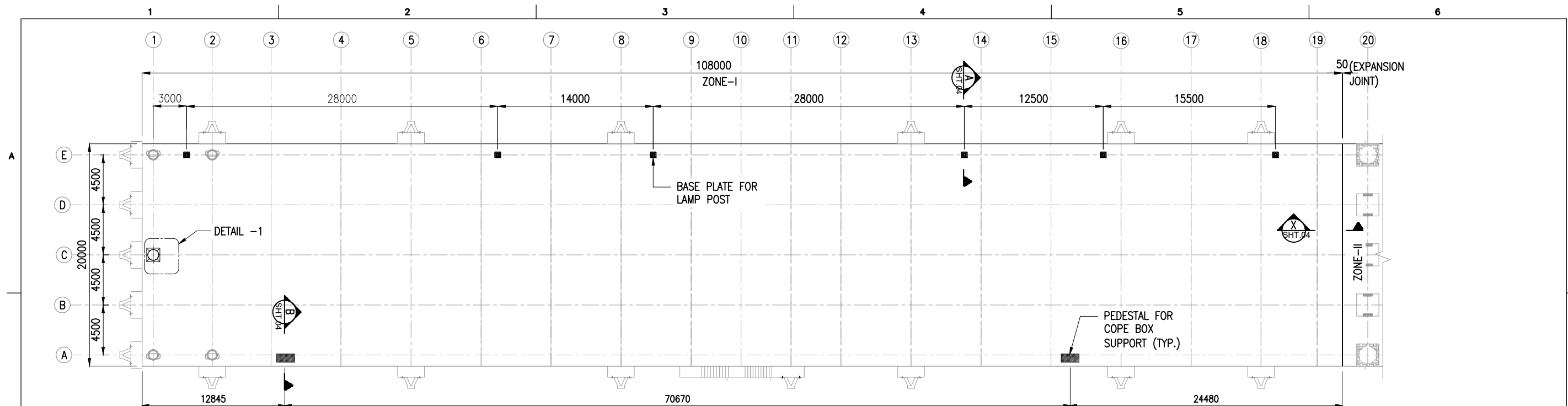


SECTION B-B
(SCALE 1:50)

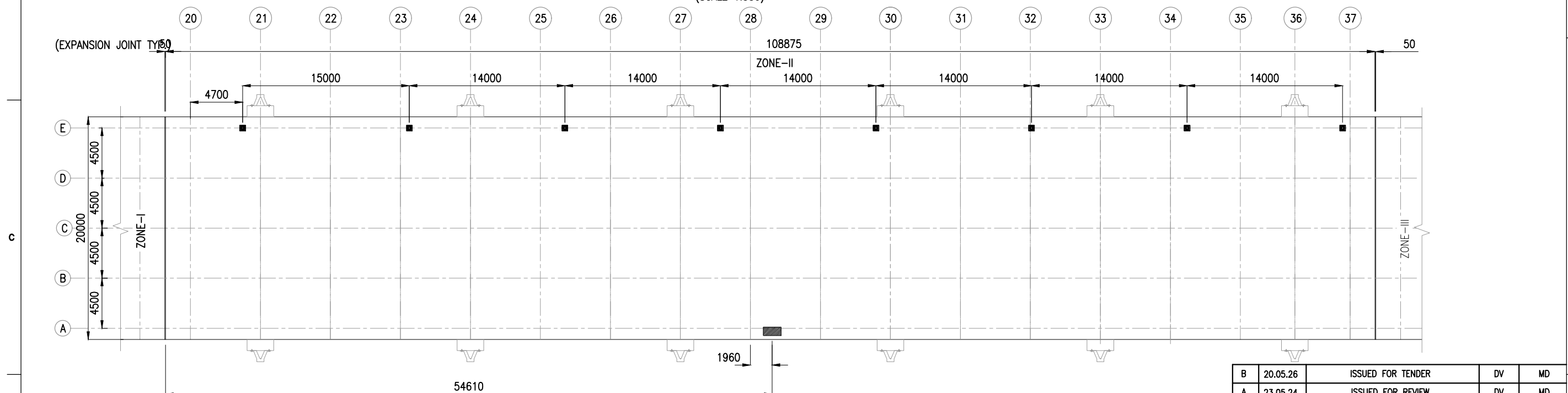
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. ARCH TYPE FENDER WITH 217kNm/m ENERGY CAPACITY SHALL BE SELECTED WITH NOT TO EXCEED REACTION OF 556kN/m. SELECTED FENDER SHALL BE INSTALLED WITH ALL NECESSARY ANCHORS ON TO THE CONCRETE. THE ANCHORS SHALL BE DESIGNED FOR ALL DESIGN FORCES DURING BERTHING.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 FIXING DETAILS OF FENDER/BOLLARD				
DRAWING NO. IITM-DPA-VAD-DWG-109			DATE: 20.05.26	REV: B





LAYOUT OF LAMP POST / EXPANSION JOINT
ZONE-I
(SCALE 1:350)

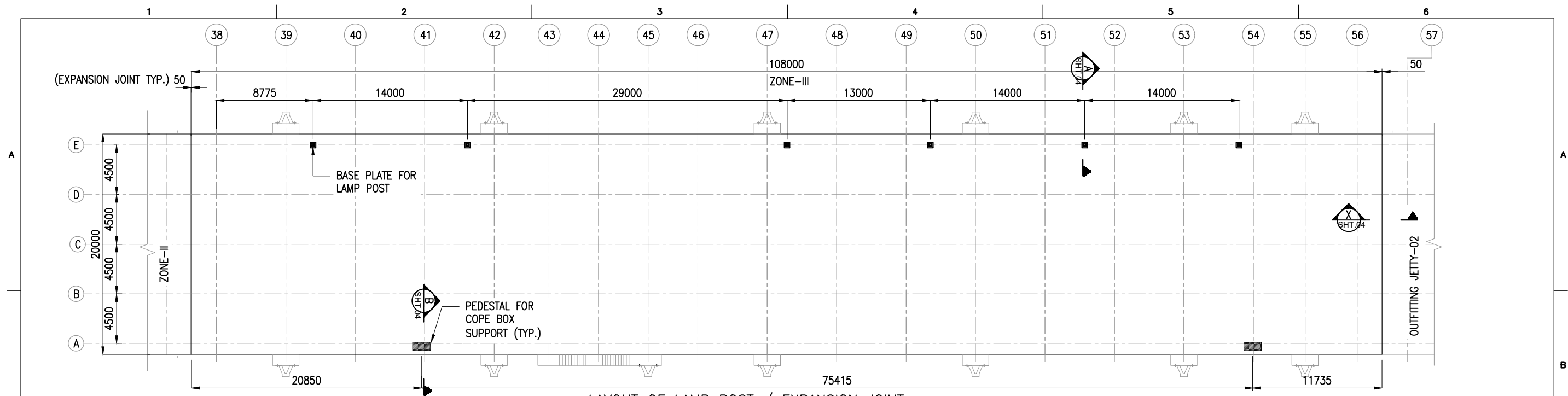


LAYOUT OF LAMP POST / EXPANSION JOINT
ZONE-II
(SCALE 1:350)

NOTES:

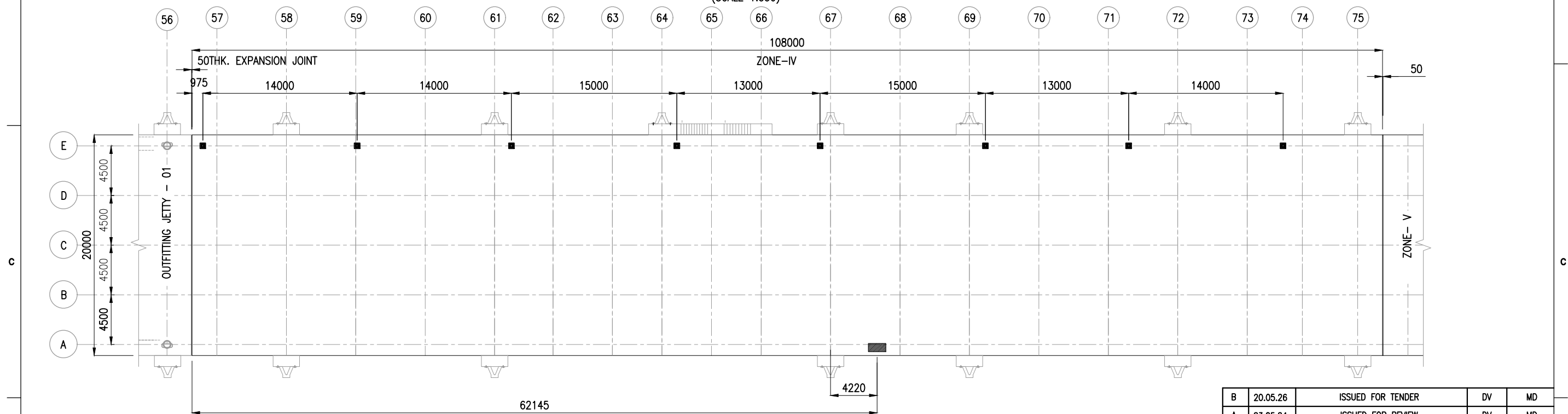
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 1 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-110-01		DATE: 20.05.26		REV: B



LAYOUT OF LAMP POST / EXPANSION JOINT

ZONE-III
(SCALE 1:350)



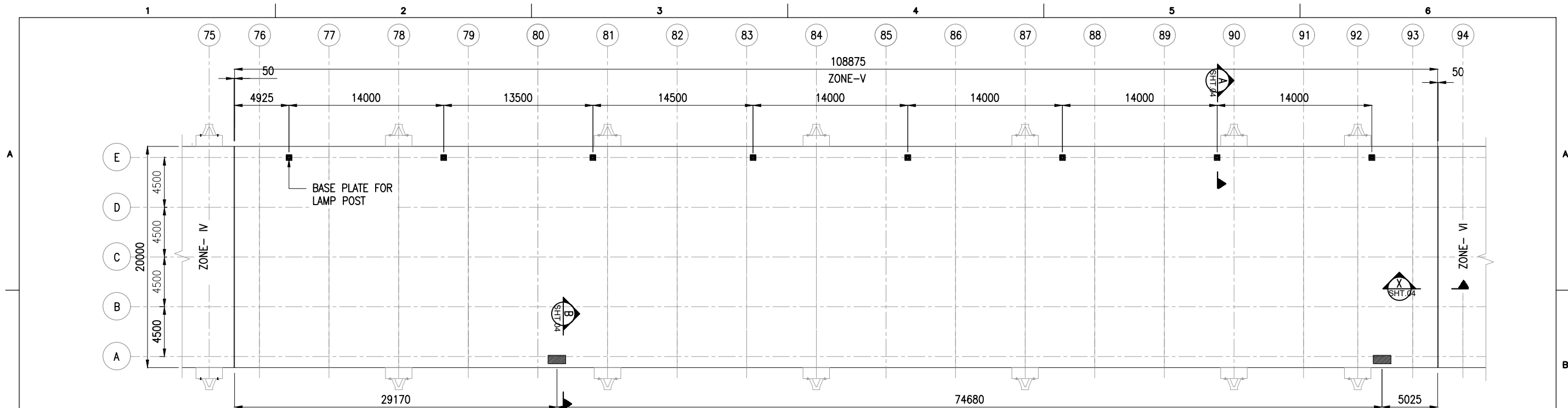
LAYOUT OF LAMP POST / EXPANSION JOINT

ZONE-IV
(SCALE 1:350)

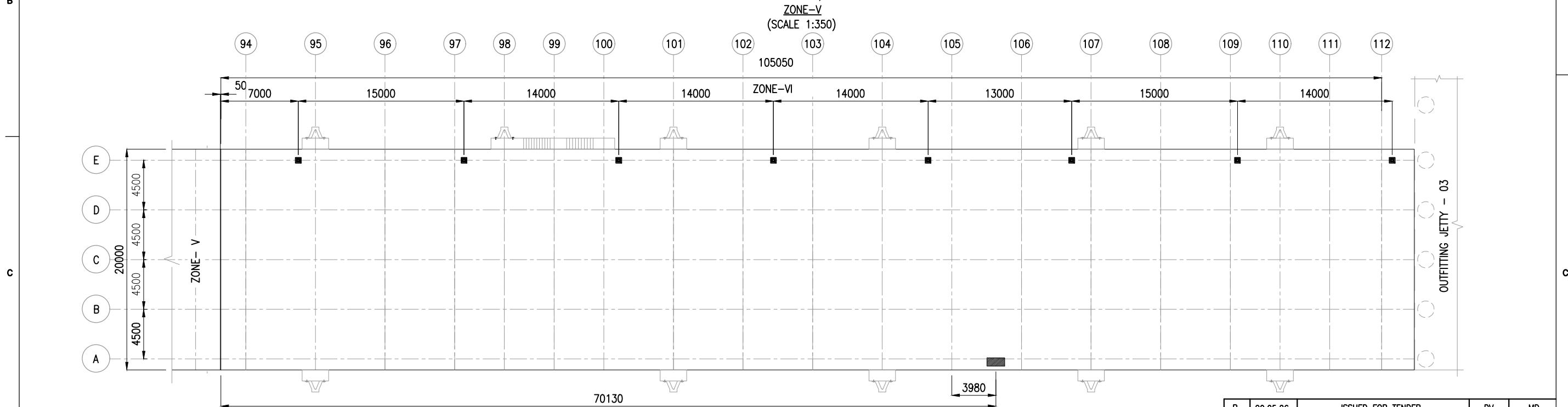
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1& 2 FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 2 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-110-02			DATE: 20.05.26	REV: B





LAYOUT OF LAMP POST / EXPANSION JOINT

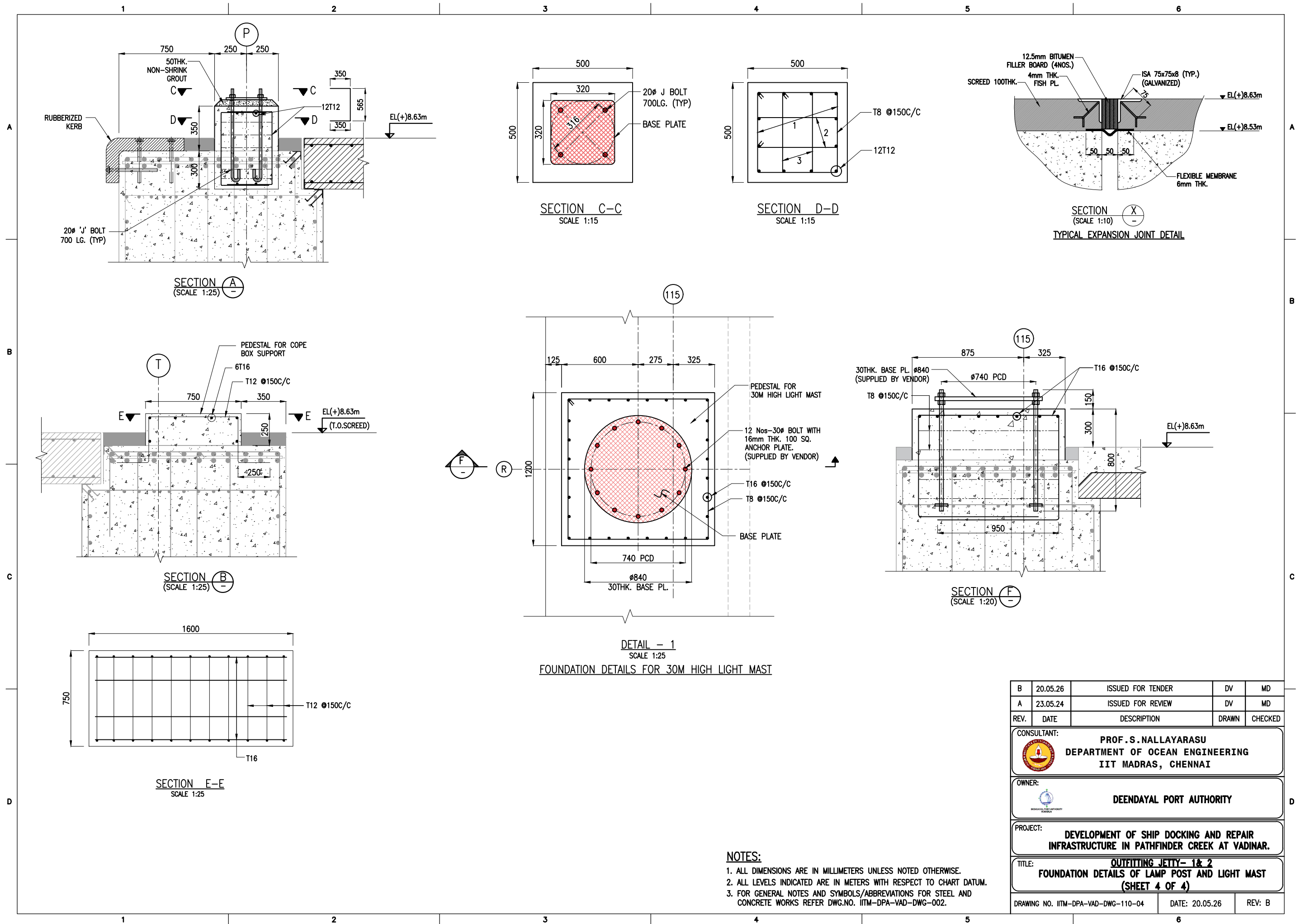


LAYOUT OF LAMP POST / EXPANSION JOINT

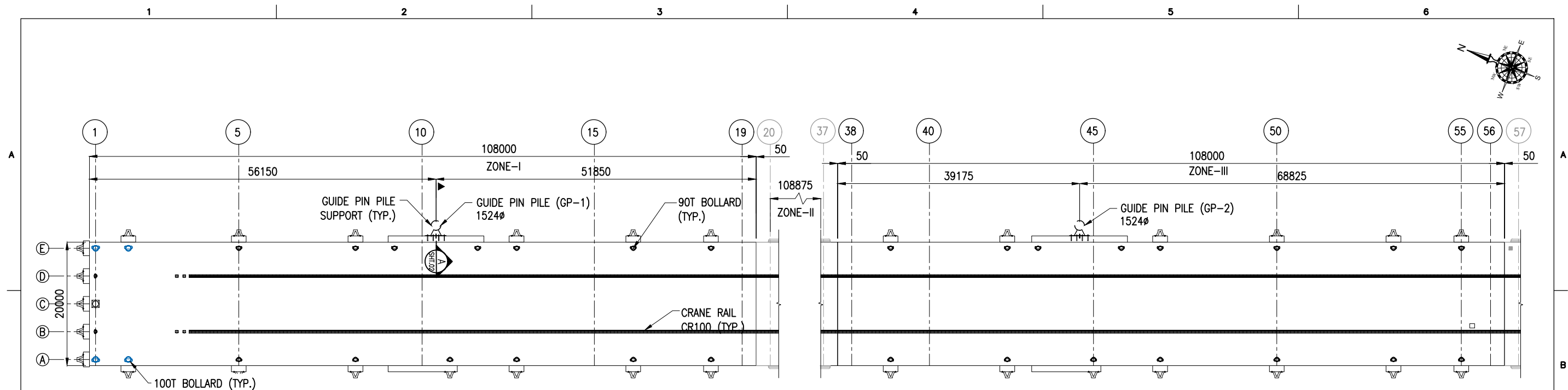
ZONE-VI
(SCALE 1:350)

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

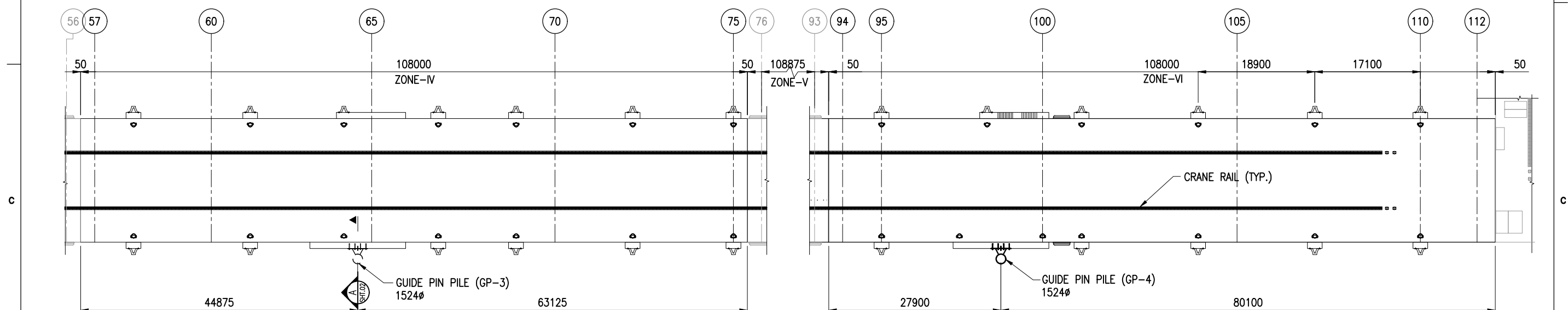
B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1& 2 FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 3 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-110-03			DATE: 20.05.26	REV: B



B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1& 2 FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 4 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-110-04			DATE: 20.05.26	REV: B





GUIDE PIN PILE LAYOUT
ZONE-I TO III
(SCALE 1:625)

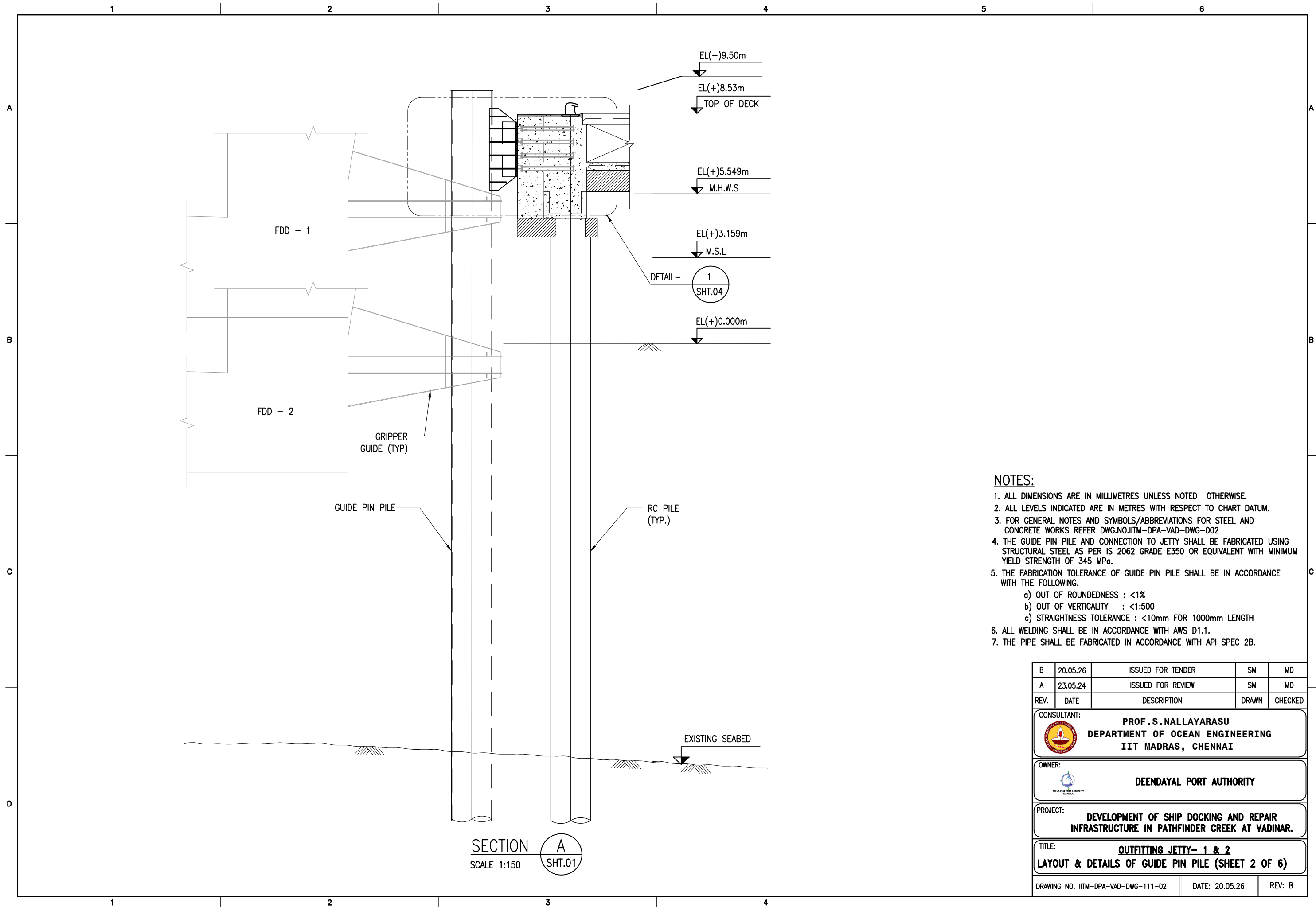


GUIDE PIN PILE LAYOUT
ZONE-IV TO VI
(SCALE 1:625)

NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

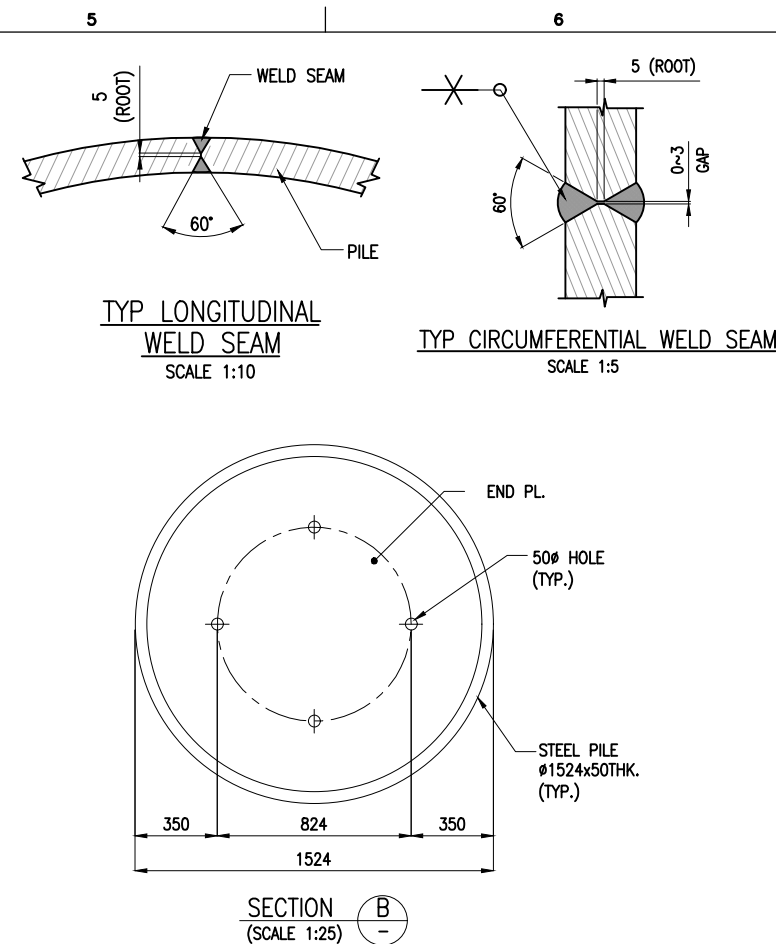
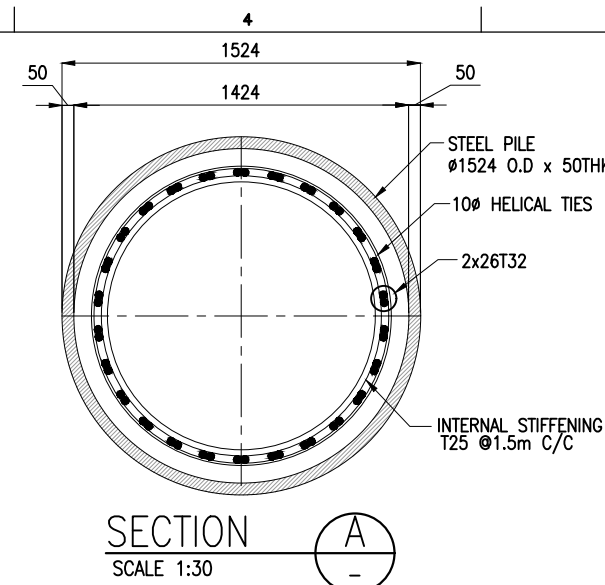
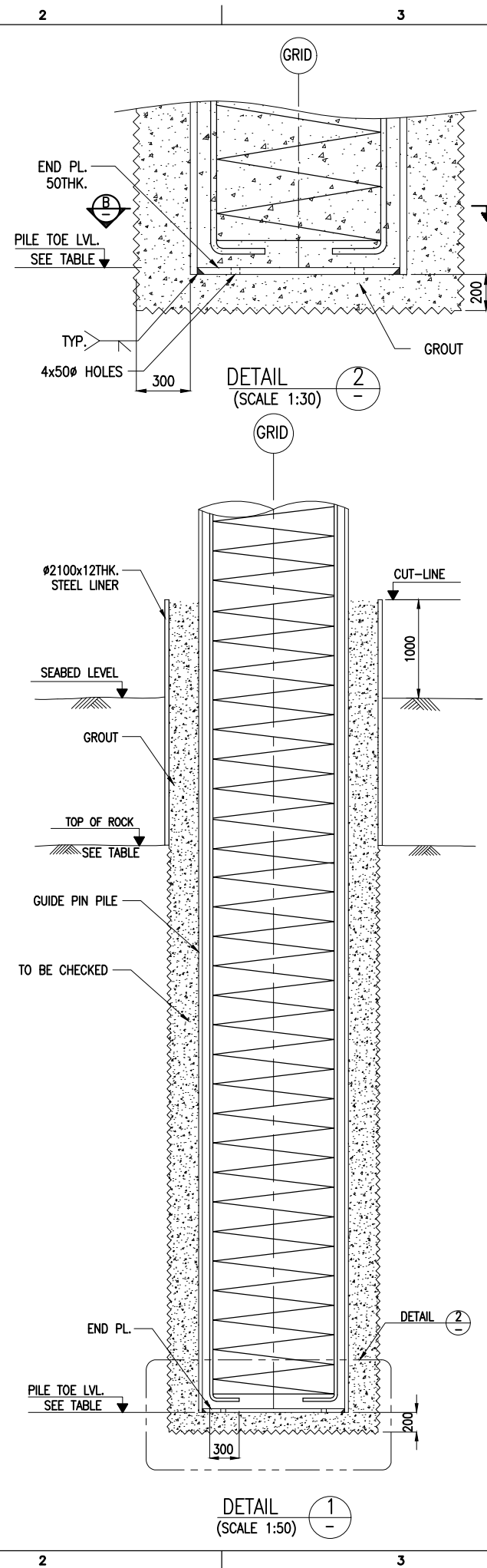
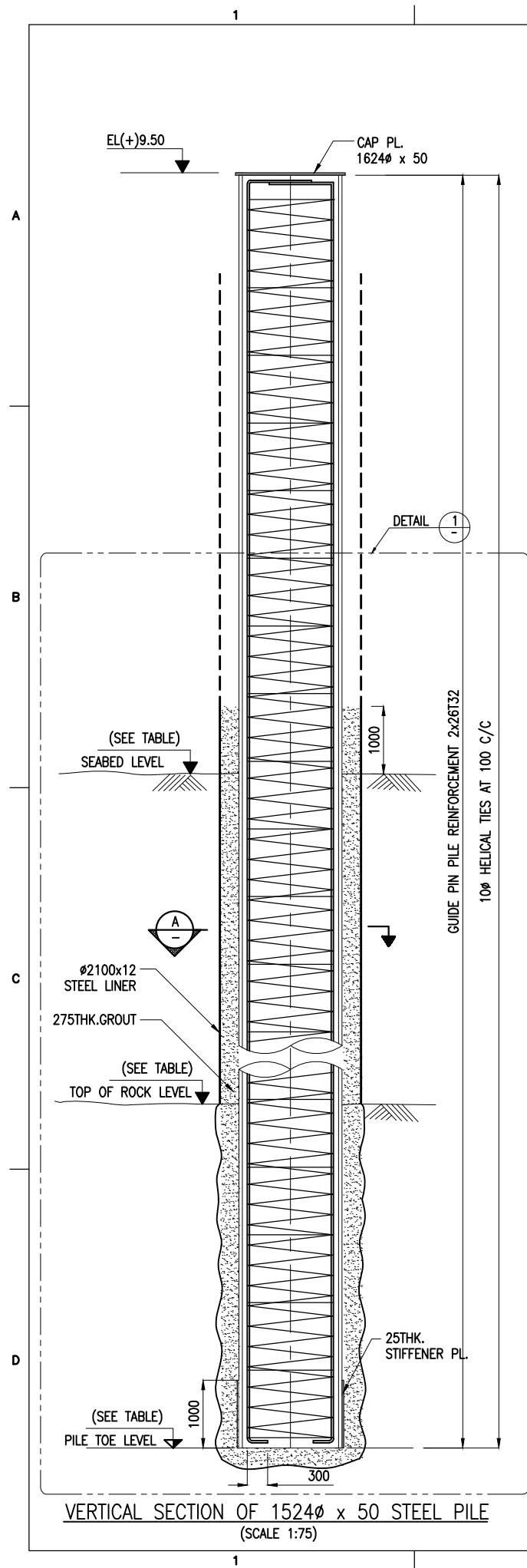
B	20.05.26	ISSUED FOR TENDER	SMM	SN
A	23.05.24	ISSUED FOR REVIEW	SMM	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY- 1 & 2 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 1 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-111-01			DATE: 20.05.26	REV: B



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002
4. THE GUIDE PIN PILE AND CONNECTION TO JETTY SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS 2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 345 MPa.
5. THE FABRICATION TOLERANCE OF GUIDE PIN PILE SHALL BE IN ACCORDANCE WITH THE FOLLOWING.
 - a) OUT OF ROUNDEDNESS : <1%
 - b) OUT OF VERTICALITY : <1:500
 - c) STRAIGHTNESS TOLERANCE : <10mm FOR 1000mm LENGTH
6. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
7. THE PIPE SHALL BE FABRICATED IN ACCORDANCE WITH API SPEC 2B.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 2 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-111-02			DATE: 20.05.26	REV: B



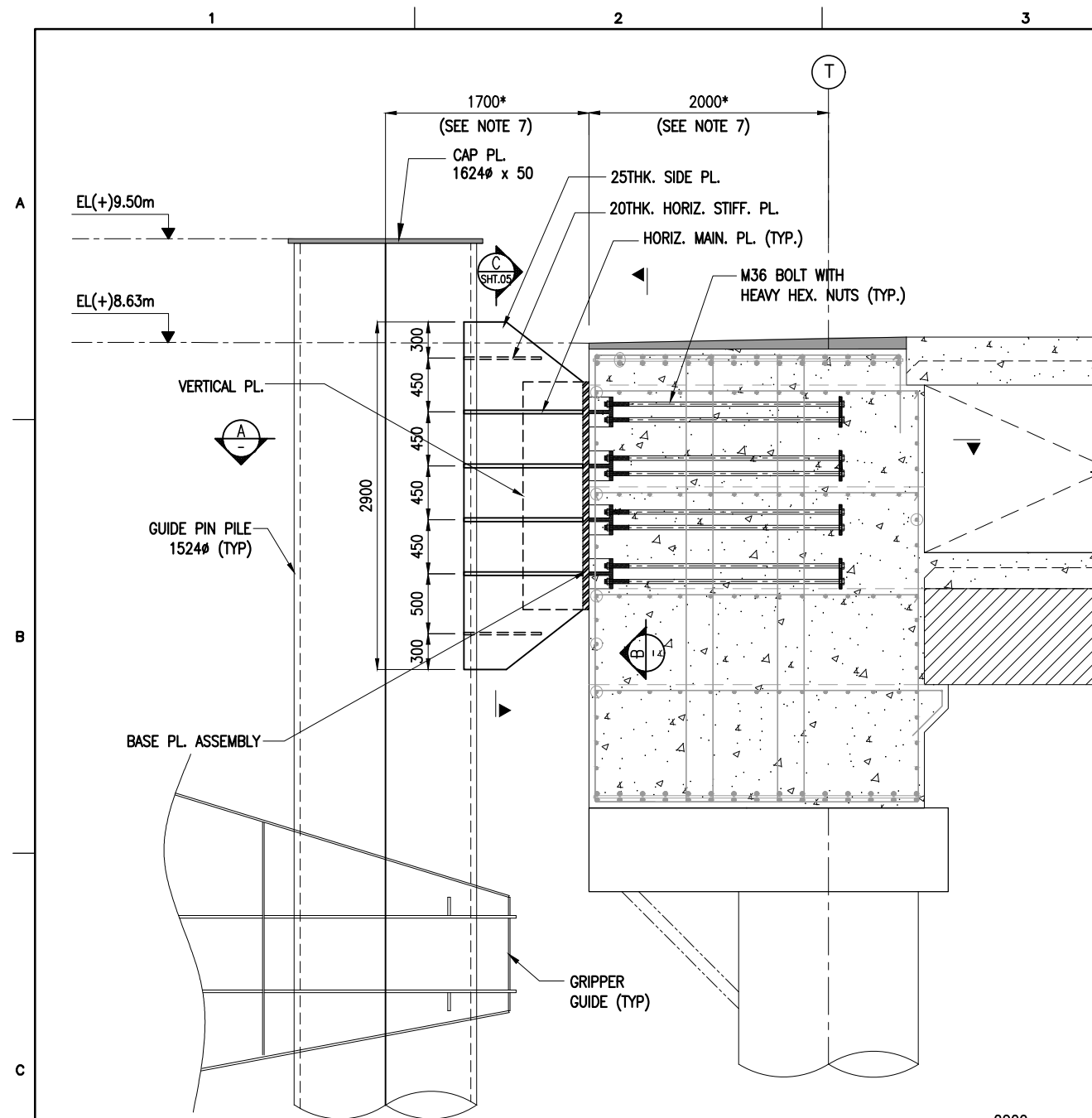
PILE SCHEDULE:

S.NO	DESCRIPTION	PILE Ø (mm)	NO.OF PILES	BOTTOM OF LINER (m)	SEABED LVL. (m)	PILE CUT-OFF LVL. (m)	ROCK LVL.(m)	PILE TOE LVL. (m)	PILE WORKING LOAD (T)	
									VERT.	HORIZ.
1	OUTFITTING JETTY 1 - GP1,GP2	1524x50	2	-27.00	-18.00 TO -22.00	(+)9.50	(-)27.00	(-)31.50	500	300
2	OUTFITTING JETTY 2 - GP3,GP4	1524x50	2	-25.00	-13.00 TO -17.00	(+)9.50	(-)25.00	(-)29.50	450	300

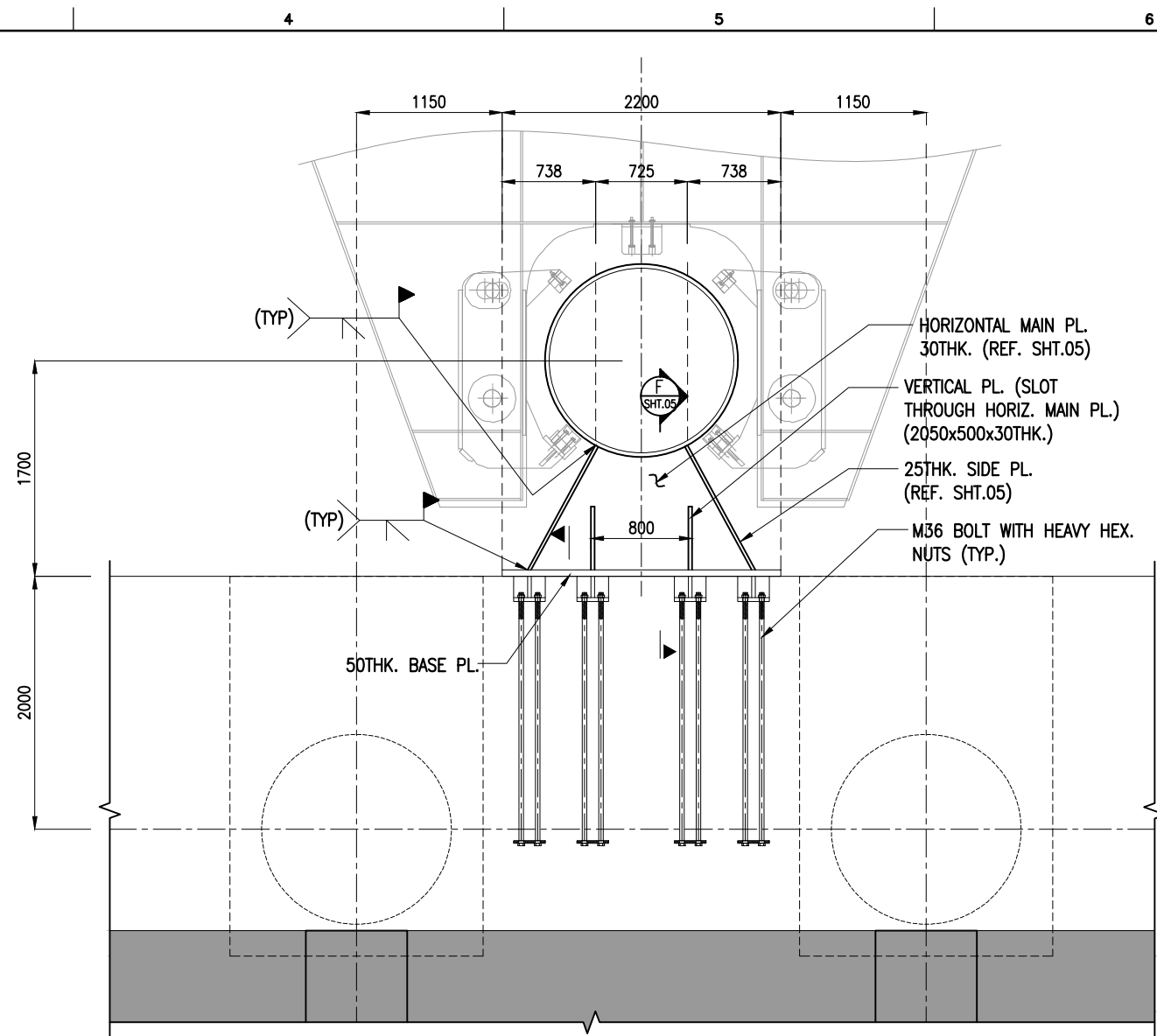
NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES, MATERIAL DETAILS AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG. NO. IITM-DPA-VAD-DWG-002.
- LINER SHALL BE DRIVEN TO REFUSAL.
- THE SEABED AND HARD ROCK LEVELS ARE BASED ON EXISTING GEOTECHNICAL DATA AND THE ACTUAL ELEVATIONS SHALL BE ESTABLISHED DURING EXECUTION.
- PILE SHALL BE SOCKETED INTO HARD/WEATHERED ROCK. THE MINIMUM SOCKET LENGTH SHALL BE AS FOLLOWS:
 - 6 TIMES THE DIAMETER IN TO SOFT OR WEATHERED ROCK.
 - 3 TIMES THE DIAMETER IN TO HARD ROCK.
 - A COMBINATION OF SOFT/WEATHERED AND HARD/INTACT ROCK THE DEPTH TO BE DETERMINED BASED ON CASE TO CASE BASIS BY THE ENGINEER'S REPRESENTATIVE. THE DECISION OF ENGINEER'S REPRESENTATIVE/CONSULTANT IS FINAL.
- THE ROCK LEVEL SHALL BE DETERMINED BASED ON THE FOLLOWING CRITERIA.
 - SPT EXCEEDING
 - INTACT/HARD ROCK - 100
 - WEATHERED/SOFT ROCK - 50
 - CHISELLING/BORING ENERGY CALCULATED AS PER IRC78.
 - INTACT/HARD ROCK - 250 Tm/m²/cm
 - WEATHERED/SOFT ROCK - 150 Tm/m²/cm
- THE PILE TERMINATION LEVELS SHOWN IN THIS DRAWING IS APPROXIMATE AND MAY VARY DEPENDING ON HARD ROCK LEVELS.
- PILE SHALL BE CAST 600mm HIGHER THAN THE PILE CUT-OFF LEVEL AND OVERFLOW OF CONCRETE SHALL BE OBSERVED AND THE ADDITIONAL LENGTH OF PILE SHALL BE CUT AFTER 28 DAYS OF CASTING THE PILE.
- SUITABLE SIZE OF OVERSIZED LINER SHALL BE USED TO DRILL 2100ø HOLE FOR ERECTION OF GUIDE PILE.
- OVERSIZE LINER SHALL BE CUT AND REMOVED AT SEABED AFTER ERECTION OF PILE.

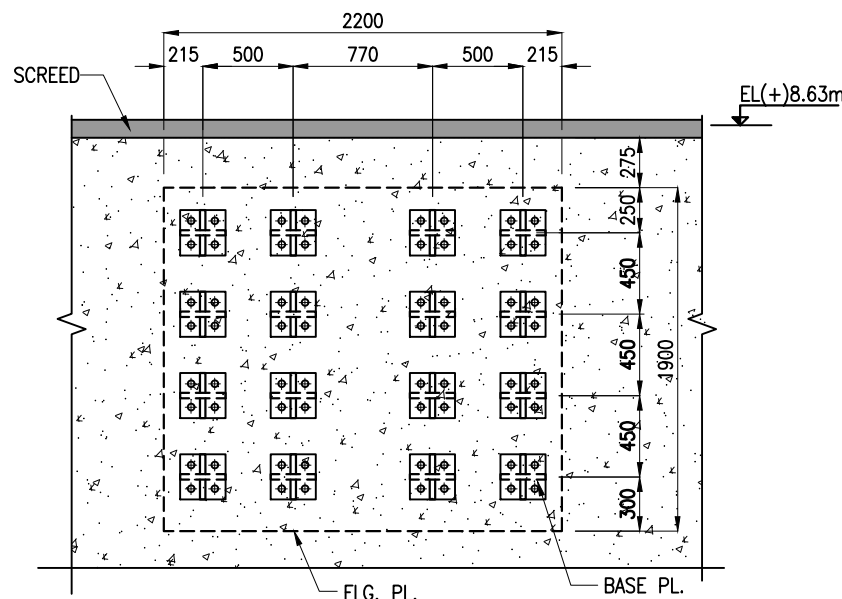
B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 3 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-111-03			DATE: 20.05.26	REV: B



DETAIL 1
SCALE 1:50 SHT.02



SECTION A
SCALE 1:50



SECTION B
SCALE 1:40

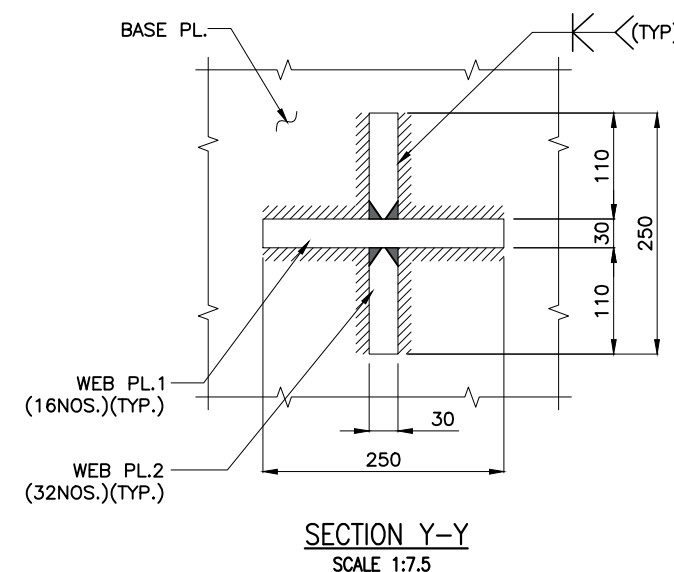
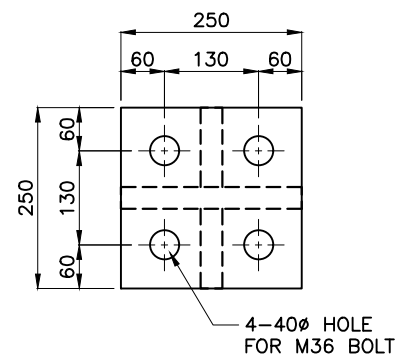
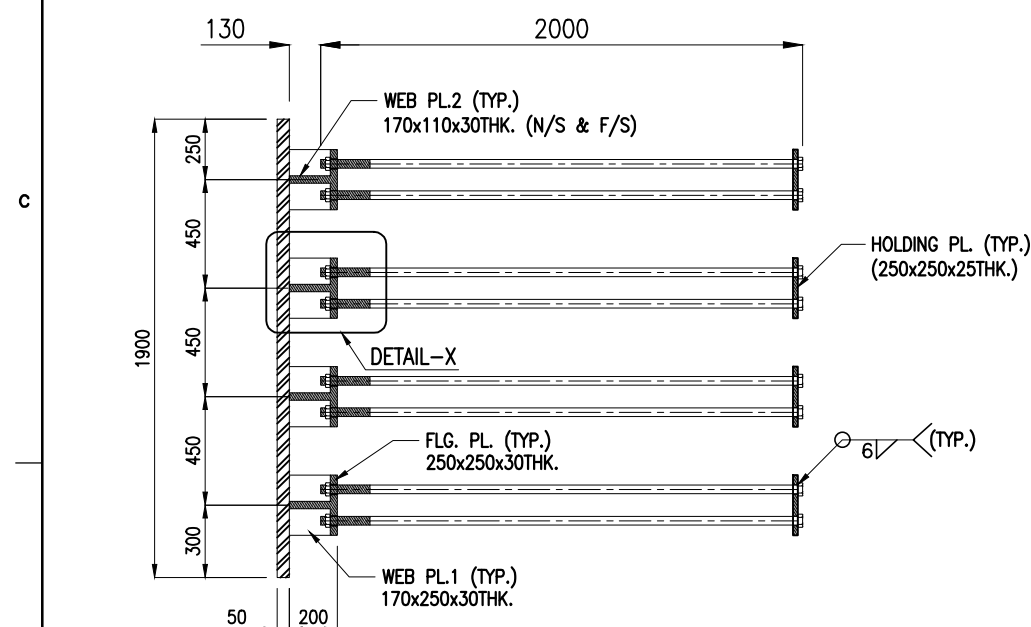
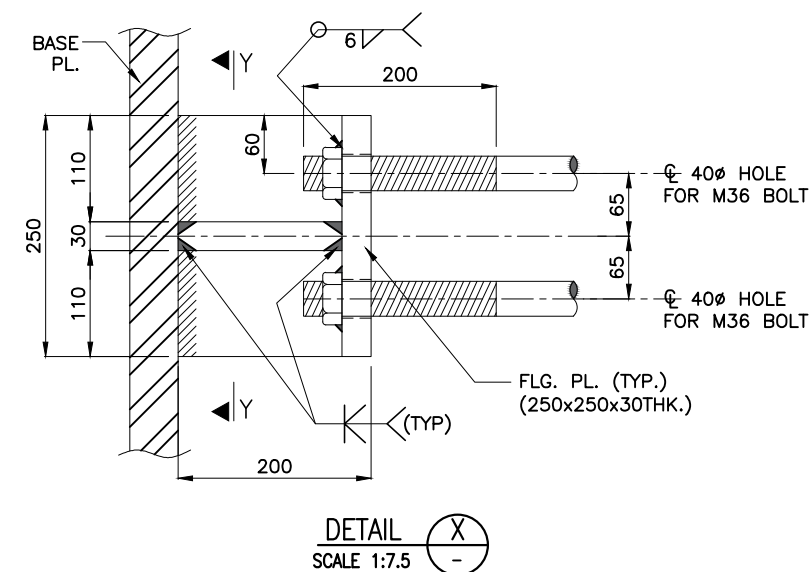
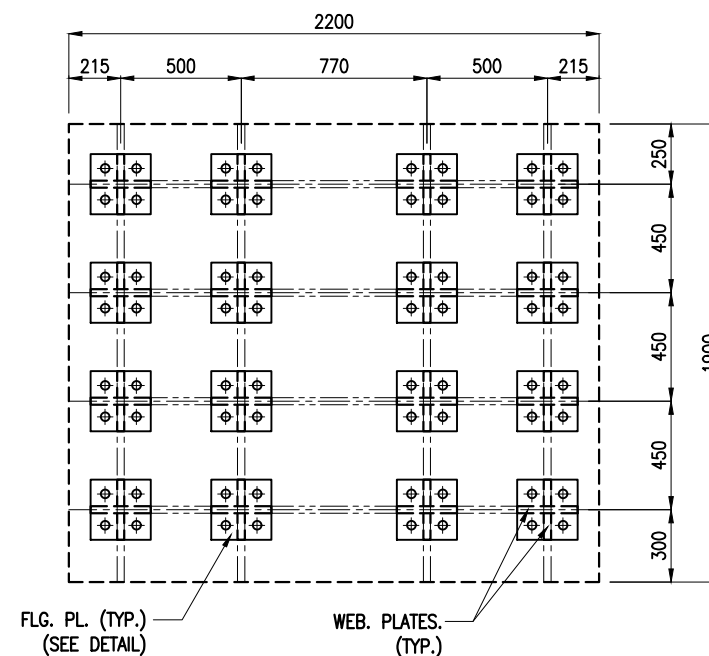
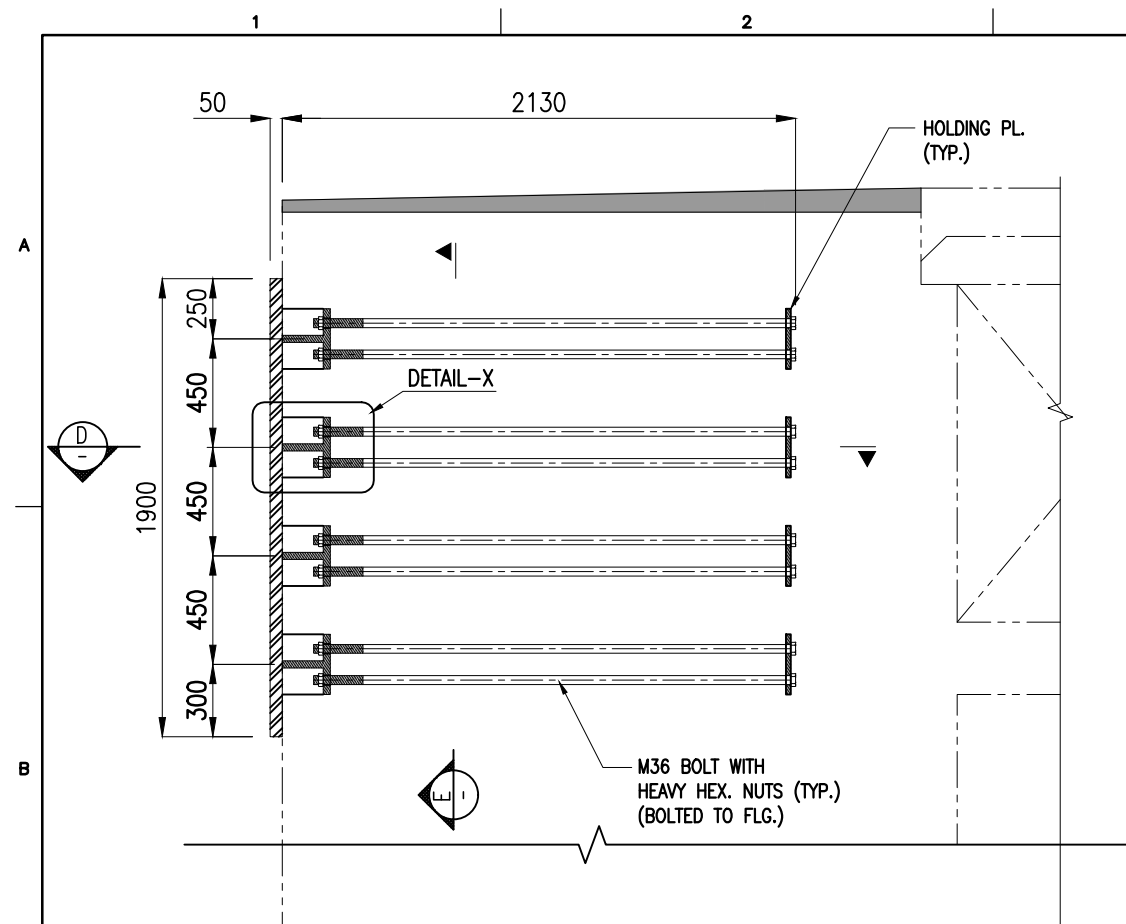
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002
- THE GUIDE PIN PILE AND CONNECTIONS TO JETTY SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS 2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 345 MPa.
- ALL WELDING SHALL BE FULL PENETRATION BUTT WELD AND SHALL BE IN ACCORDANCE WITH AWS D1.1.
- ANCHOR BOLTS SHALL CONFORM TO ASTM A325 AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563, GRADE C OR D AND SHALL BE HEAVY HEX. TYPE. BOLTS AND NUTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH A153 U.N.O.
- THE FABRICATION OF STEEL CONNECTIONS/CONCRETE BEAM BETWEEN THE GUIDE PIN PILE AND DECK SHALL BE CARRIED OUT AFTER THE ERECTION OF GUIDE PIN PILE/SURVEY.

ERECTION SEQUENCE:



- ERECTION OF GUIDE PIN PILE WITH COMPLETE REINFORCEMENT AND CONCRETE.
- WELDING OF HORIZONTAL MAIN PLATES (4NOS.)
- INSERT AND WELDING OF VERTICAL PLATES (2NOS.)
- WELDING OF SIDE PLATES (IN PIECES).
- WELDING OF HORIZONTAL STIFFENER PLATES AT TOP & BOTTOM.

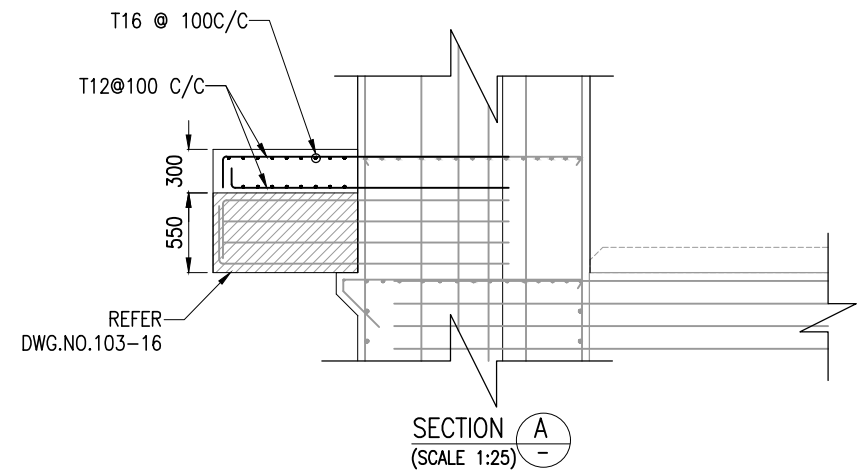
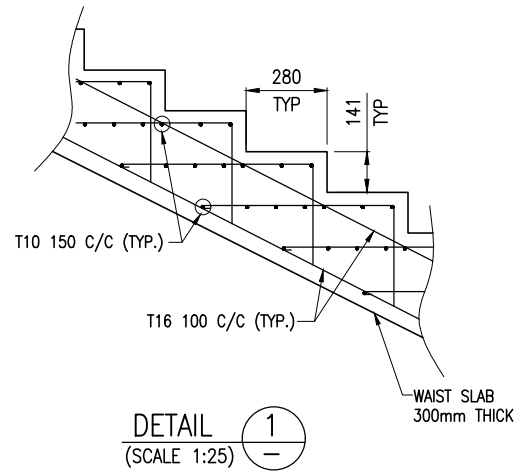
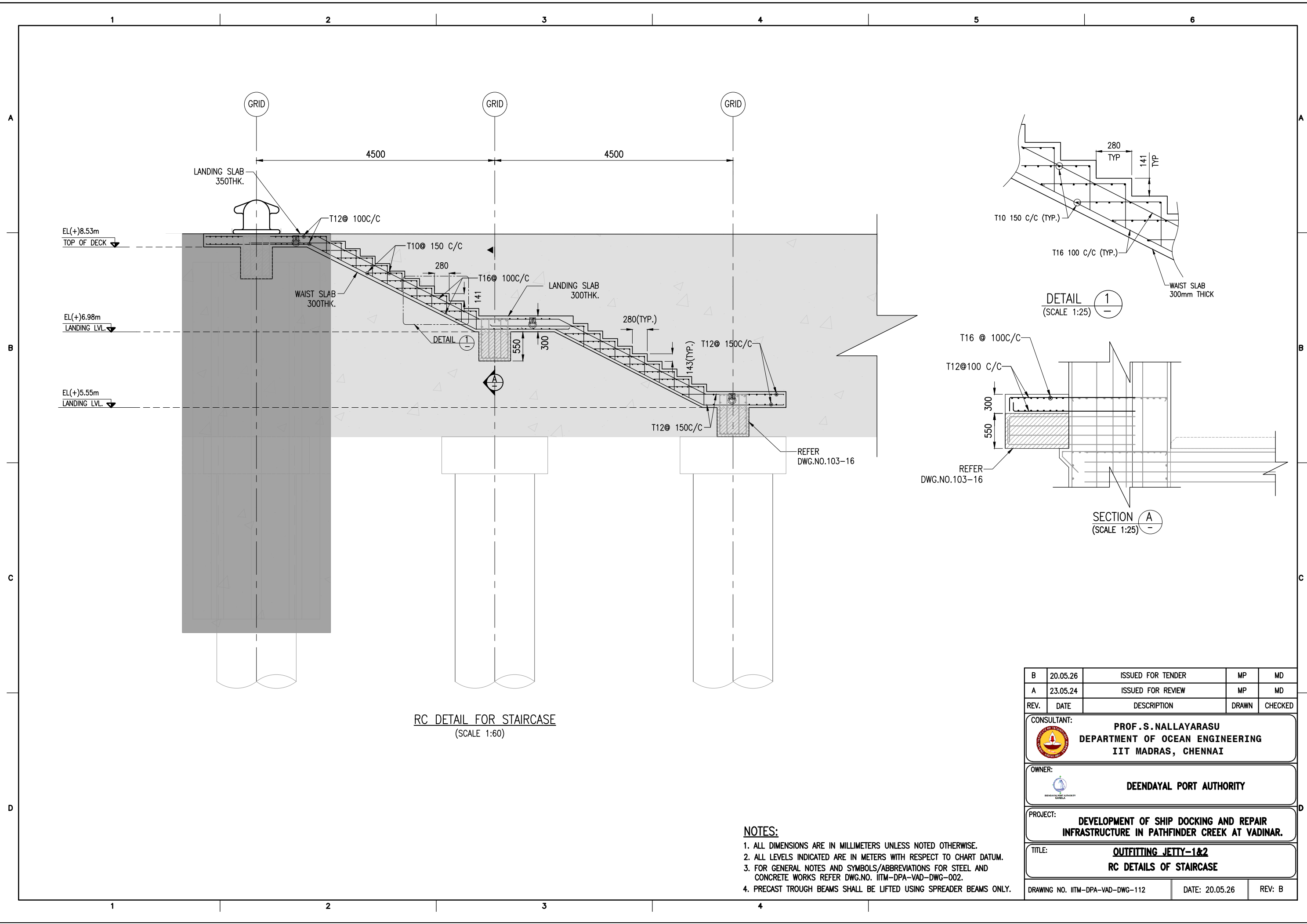
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 4 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-111-04		DATE: 20.05.26		REV: B



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002
- THE GUIDE PIN PILE AND CONNECTIONS TO JETTY SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS 2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 345 MPa.
- ALL WELDING SHALL BE FULL PENETRATION BUTT WELD AND SHALL BE IN ACCORDANCE WITH AWS D1.1.
- ANCHOR BOLTS SHALL CONFORM TO ASTM A325 AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563, GRADE C OR D AND SHALL BE HEAVY HEX. TYPE. BOLTS AND NUTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH A153 U.N.O.

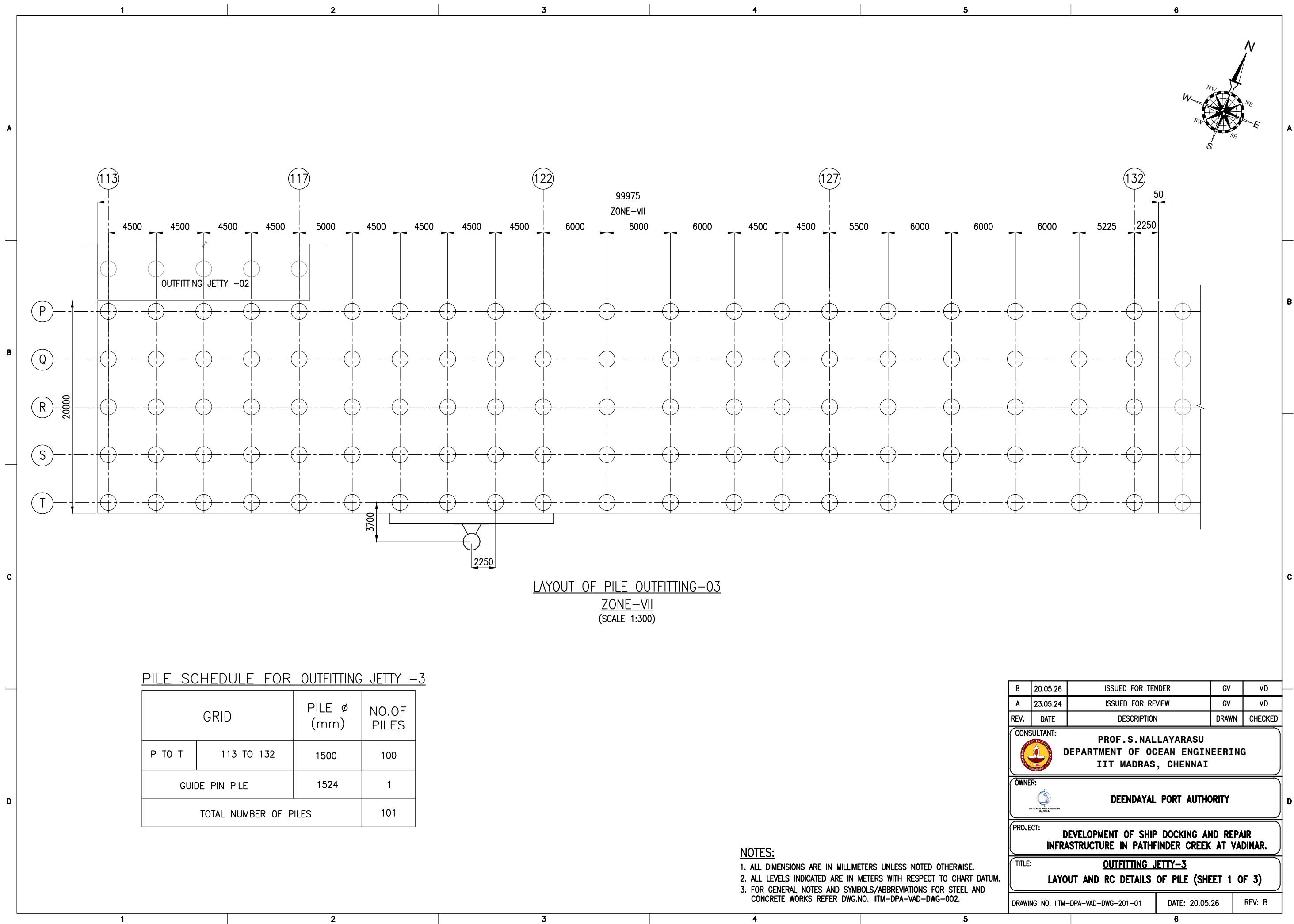
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY- 1 & 2 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 5 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-111-05		DATE: 20.05.26		REV: B

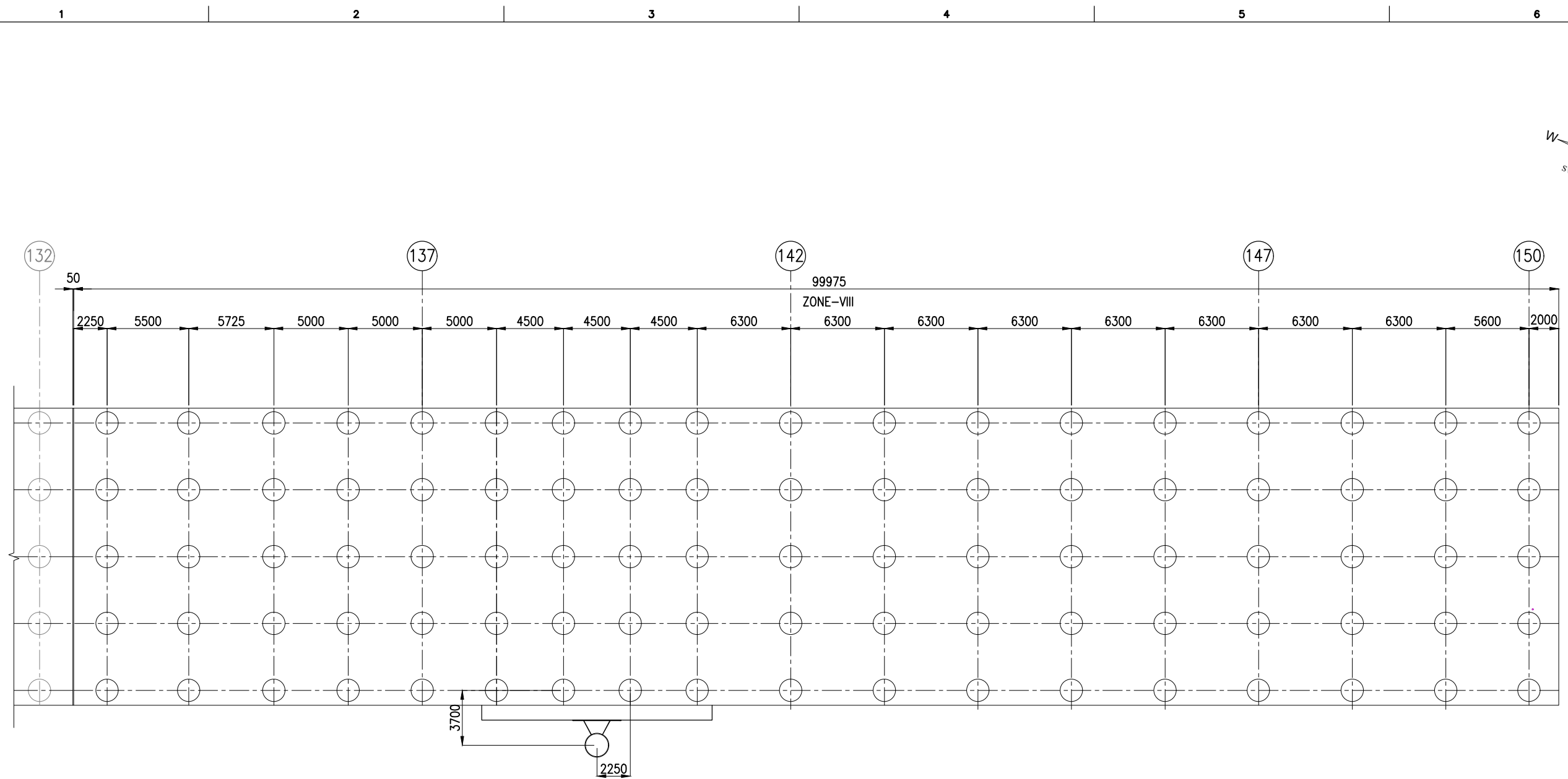


RC DETAIL FOR STAIRCASE
(SCALE 1:60)

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-1&2 RC DETAILS OF STAIRCASE				
DRAWING NO. IITM-DPA-VAD-DWG-112			DATE: 20.05.26	REV: B







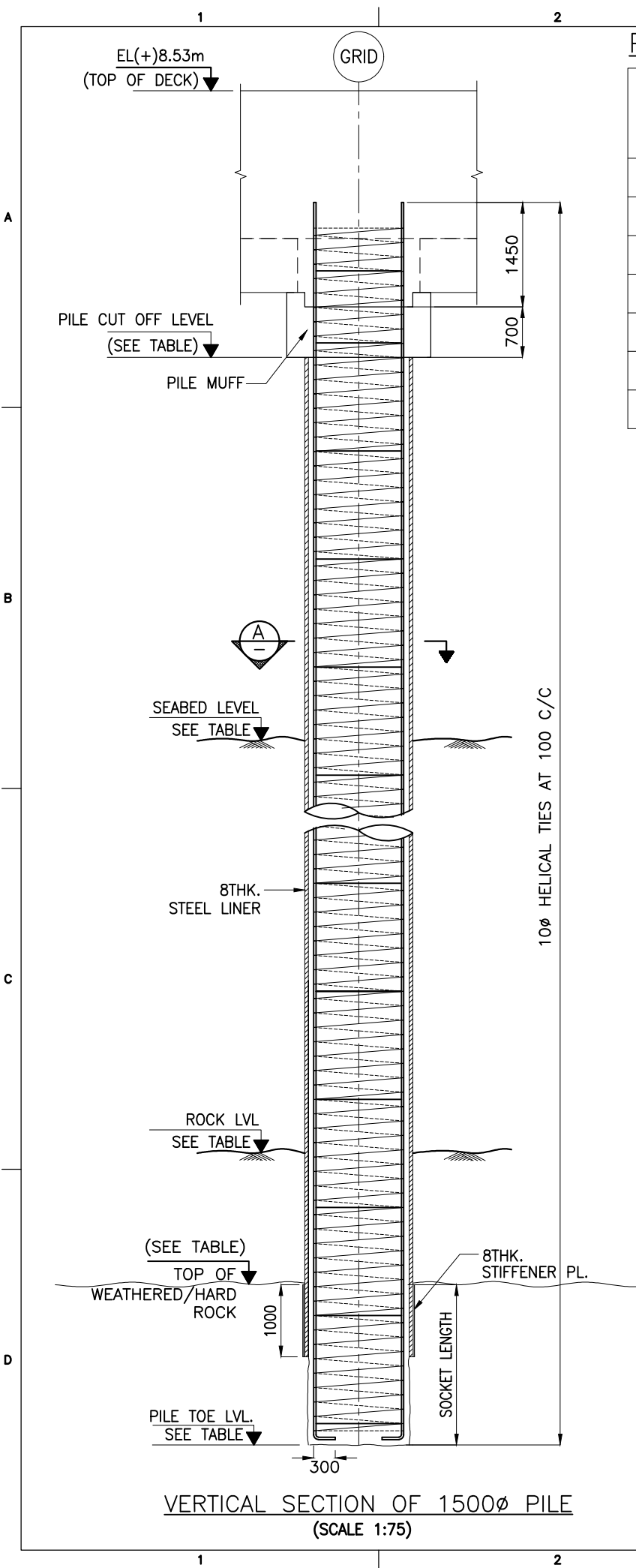
LAYOUT OF PILE OUTFITTING JETTY-03
ZONE-VIII
(SCALE 1:300)

PILE SCHEDULE FOR OUTFITTING JETTY -3

GRID		PILE ϕ (mm)	NO.OF PILES
P TO T	133 TO 150	1500	90
GUIDE PIN PILE		1524	1
TOTAL NUMBER OF PILES			91

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	GV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-201-02			DATE: 20.05.26	REV: B

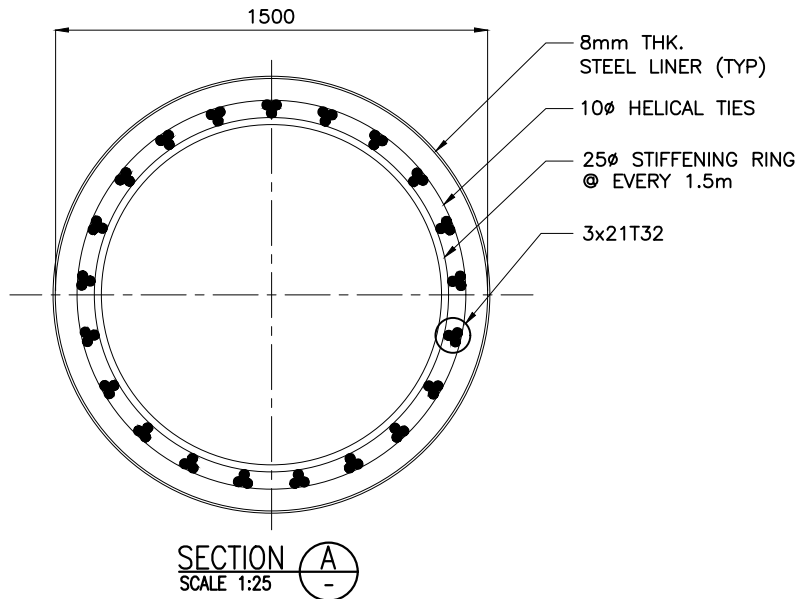




PILE SCHEDULE:

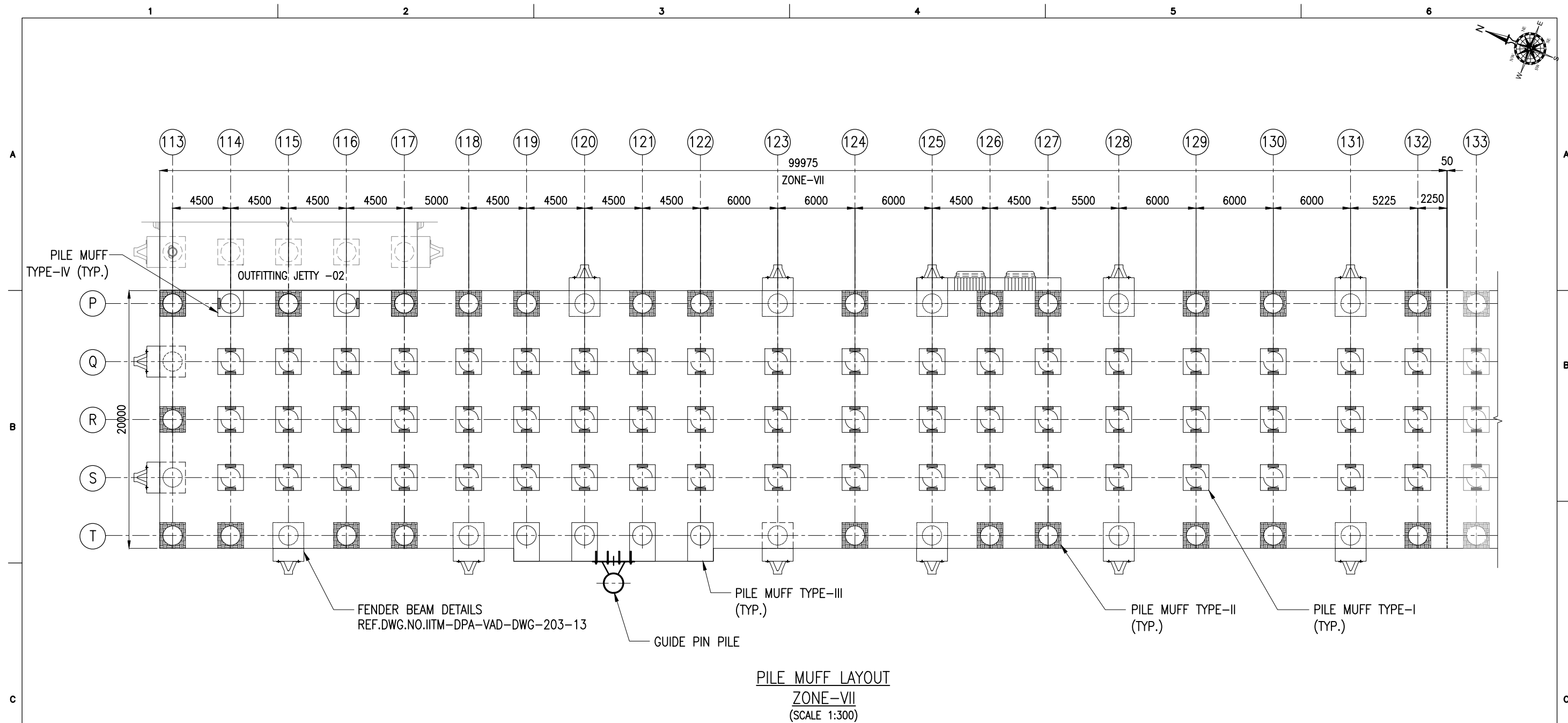
S.NO	GRID		PILE ϕ (mm)	NO. OF PILES	SEA BED LVL. (m)	ROCK LVL.(m)	BOTTOM OF LINER (m)	PILE CUT-OFF LVL. (m)	PILE TOE LVL. (m)	VERTICAL PILE WORKING LOAD (T)	HORIZONTAL PILE WORKING LOAD (T)
OUTFITTING JETTY – 3											
1	P	114 TO 116	1500	03	−10.0 TO 15.0	−23.0	−24.0	+4.83	−27.5	500	50
2		113 TO 150	1500	35	−10.0 TO 15.0	−23.0	−24.0	+4.00	−27.5	500	50
3	Q	113 TO 150	1500	38	−10.0 TO 15.0	−23.0	−24.0	+4.83	−27.5	500	50
4	R	113 TO 150	1500	38	−10.0 TO 15.0	−23.0	−24.0	+4.83	−27.5	500	50
5	S	113 TO 150	1500	38	−10.0 TO 15.0	−23.0	−24.0	+4.83	−27.5	500	50
5	T	113 TO 150	1500	38	−10.0 TO 15.0	−23.0	−24.0	+4.00	−27.5	500	50
		TOTAL		190							

NOTES:

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- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
- BARS TO BE BENT AFTER THE PLACING OF PILEMUFF AND PRECAST BEAM.
- LINER SHALL BE DRIVEN TO REFUSAL.
- THE SEABED AND ROCK LEVELS ARE BASED ON EXISTING GEOTECHNICAL DATA. THE ACTUAL ELEVATIONS SHALL BE ESTABLISHED BY SITE SPECIFIC BORE HOLE INVESTIGATION OR DURING PILING.
- PILE SHALL BE SOCKETED INTO HARD/WEATHERED ROCK. THE MINIMUM SOCKET LENGTH SHALL BE AS FOLLOWS:
 - 6 TIMES THE DIAMETER IN TO SOFT OR WEATHERED ROCK.
 - 3 TIMES THE DIAMETER IN TO HARD ROCK.
 - A COMBINATION OF SOFT/WEATHERED AND HARD/INTACT ROCK THE DEPTH TO BE DETERMINED BASED ON CASE TO CASE BASIS BY THE ENGINEER'S REPRESENTATIVE. THE DECISION OF ENGINEER'S REPRESENTATIVE/CONSULTANT IS FINAL.
- THE ROCK LEVEL SHALL BE DETERMINED BASED ON THE FOLLOWING CRITERIA.
 - SPT EXCEEDING
 - INTACT/HARD ROCK – 100
 - WEATHERED/SOFT ROCK – 50
 - CHISELLING/BORING ENERGY CALCULATED AS PER IRC78.
 - INTACT/HARD ROCK – 250 Tm/m²/cm
 - WEATHERED/SOFT ROCK – 150 Tm/m²/cm
- THE PILE TERMINATION LEVELS SHOWN IN THIS DRAWING IS APPROXIMATE AND MAY VARY DEPENDING ON HARD ROCK LEVELS.
- STRUCTURAL STEEL FOR LINER SHALL CONFORM TO IS:2062 GRADE E250.
- PILE SHALL BE CAST 600mm HIGHER THAN THE PILE CUT-OFF LEVEL AND OVERFLOW OF CONCRETE SHALL BE OBSERVED AND THE ADDITIONAL LENGTH OF PILE SHALL BE CUT AFTER 28 DAYS OF CASTING THE PILE.



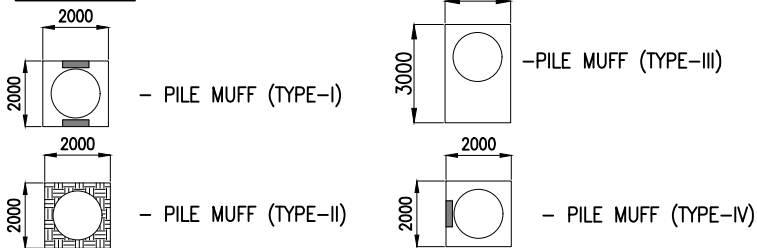
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	GV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE (SHEET 3 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-201-03		DATE: 20.05.26		REV: B



SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	25	AT GRID P - 113,115,117,118,119,121,122,124,126,127,129,130&132 AT GRID T - 113,114,116,117,123,124,126,127,129,130&132 AT GRID R - 113
TYPE-II	2000x2000x700	4.19	57	AT GRID Q,R&S - 114 TO 132
TYPE-III	2000x3000x700	7.62	4	AT GRID T - 119 TO 122
TYPE-IV	2000x2000x700	4.08	2	AT GRID P - 114 & 116

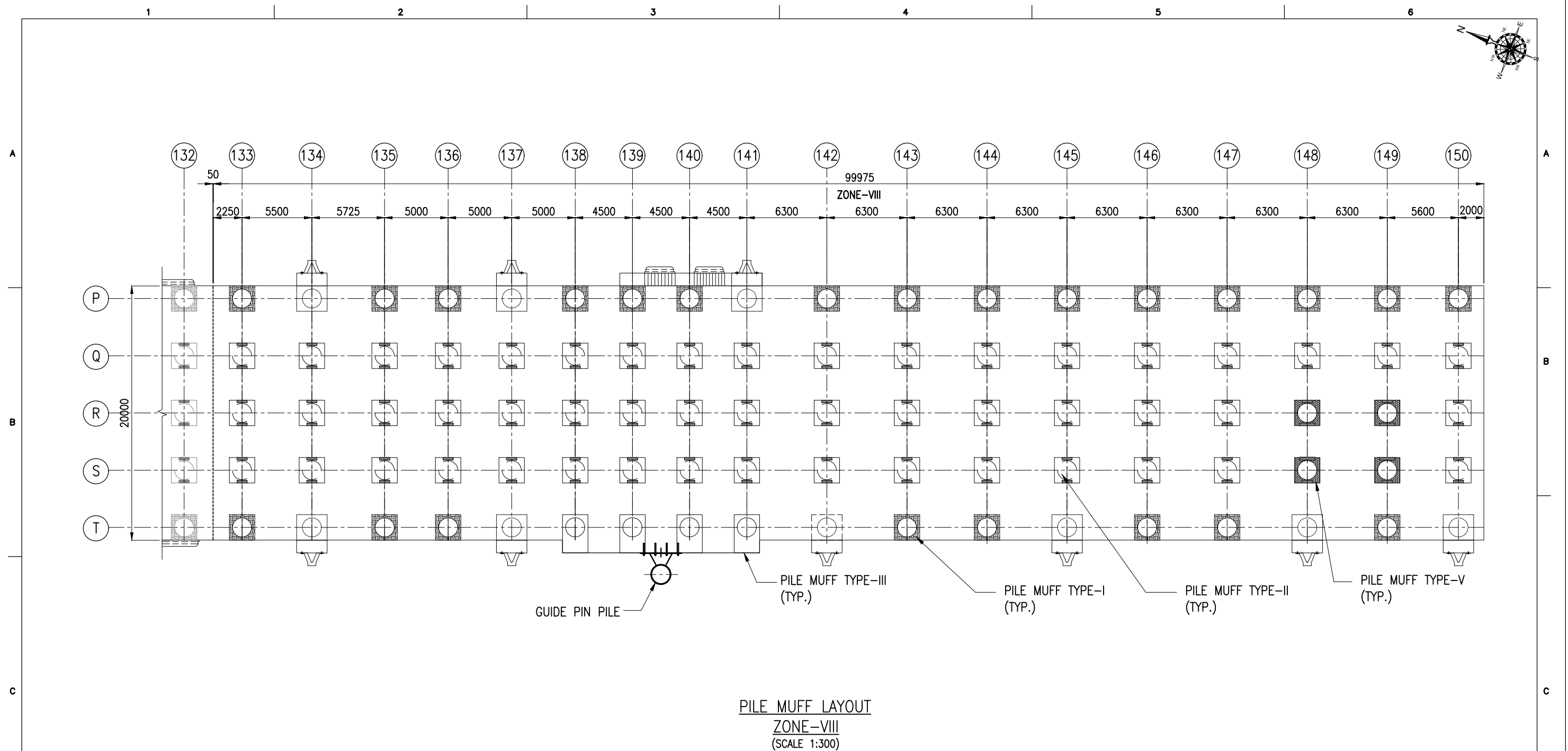
LEGEND:



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 1 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-202-01			DATE: 20.05.26	REV: B

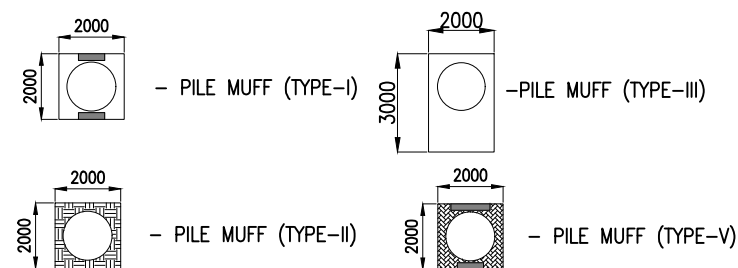


PILE MUFF LAYOUT
ZONE-VIII
(SCALE 1:300)

SCHEDULE FOR PRECAST PILE MUFF:



TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-I	2000x2000x700	4.27	23	AT GRID P – 133,135,136,138,139,140,142,143,144, 145,146,147,148,149&150. AT GRID T – 133,135,136,143,144,146,147,&149.
TYPE-II	2000x2000x700	4.19	50	AT GRID Q – 133 TO 150 AT GRID R & S – 133 TO 147&150
TYPE-III	2000x3000x700	7.62	4	AT GRID T – 138 TO 141
TYPE-V	2000x2000x700	4.31	4	AT GRID R & S – 148 & 149

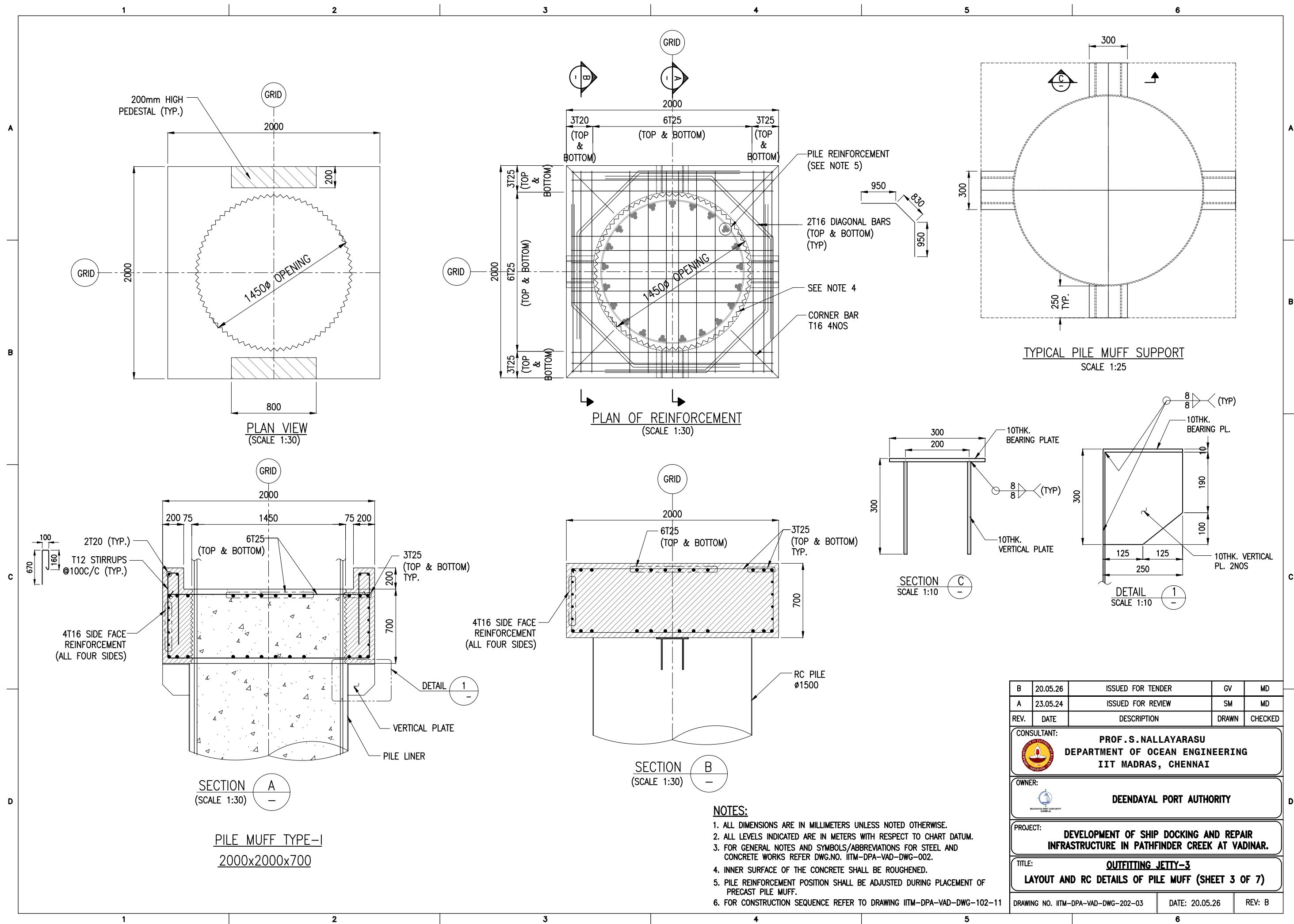
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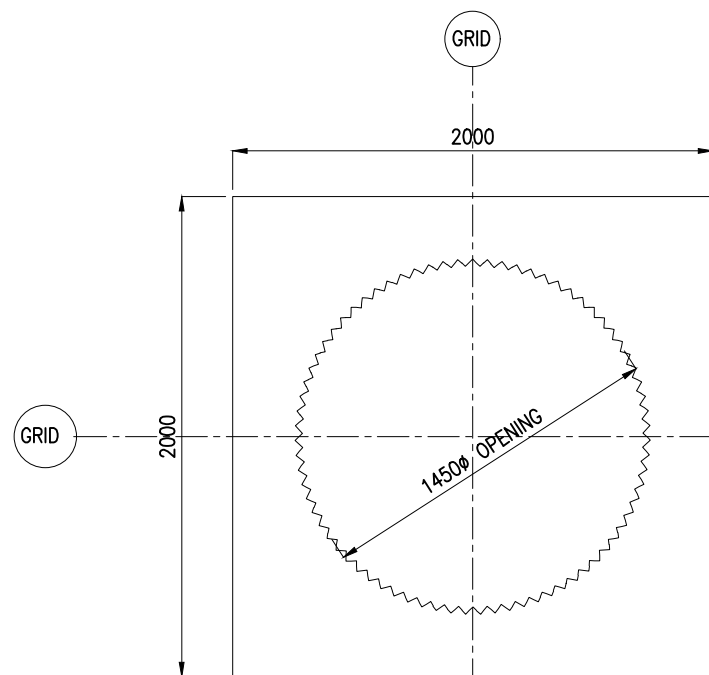
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

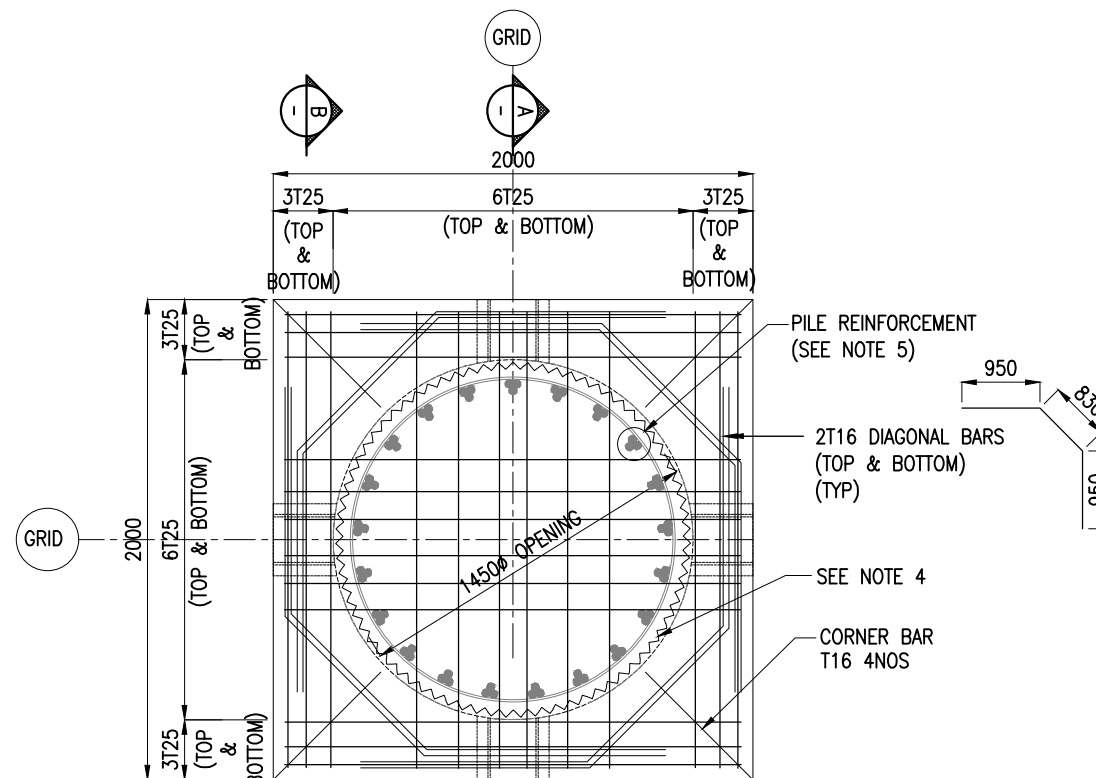
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
<p>CONSULTANT:</p>  <p>PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI</p>				
<p>OWNER:</p>  <p>DEENDAYAL PORT AUTHORITY</p>				
<p>PROJECT:</p> <p>DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.</p>				
<p>TITLE:</p> <p><u>OUTFITTING JETTY-3</u> LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 2 OF 7)</p>				
DRAWING NO. IITM-DPA-VAD-DWG-202-02			DATE: 20.05.26	REV: B



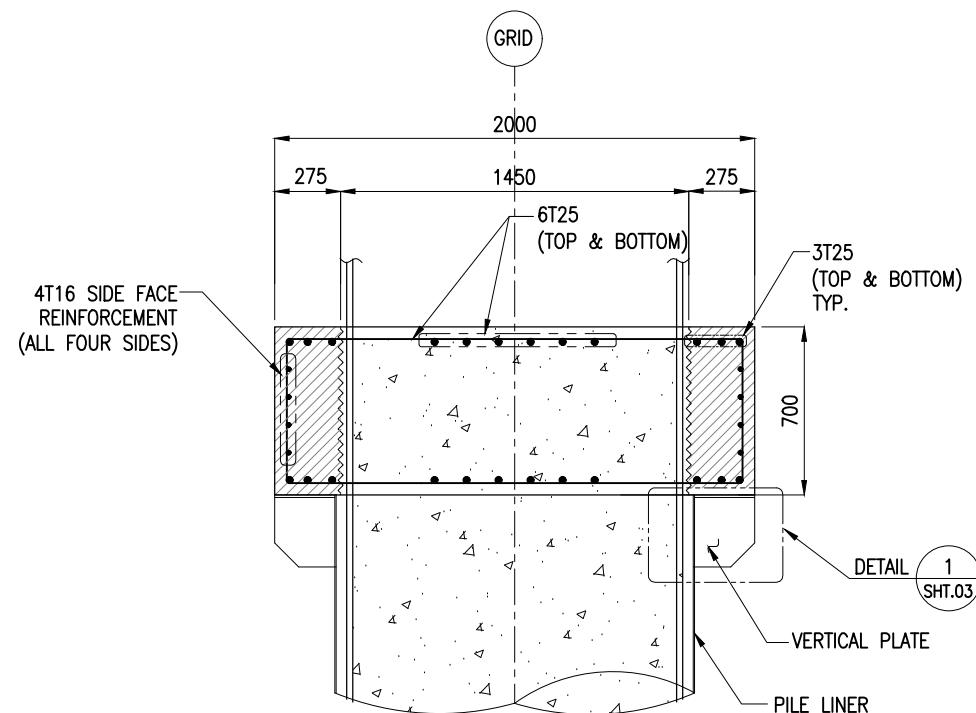
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 3 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-202-03			DATE: 20.05.26	REV: B



PLAN VIEW
(SCALE 1:30)

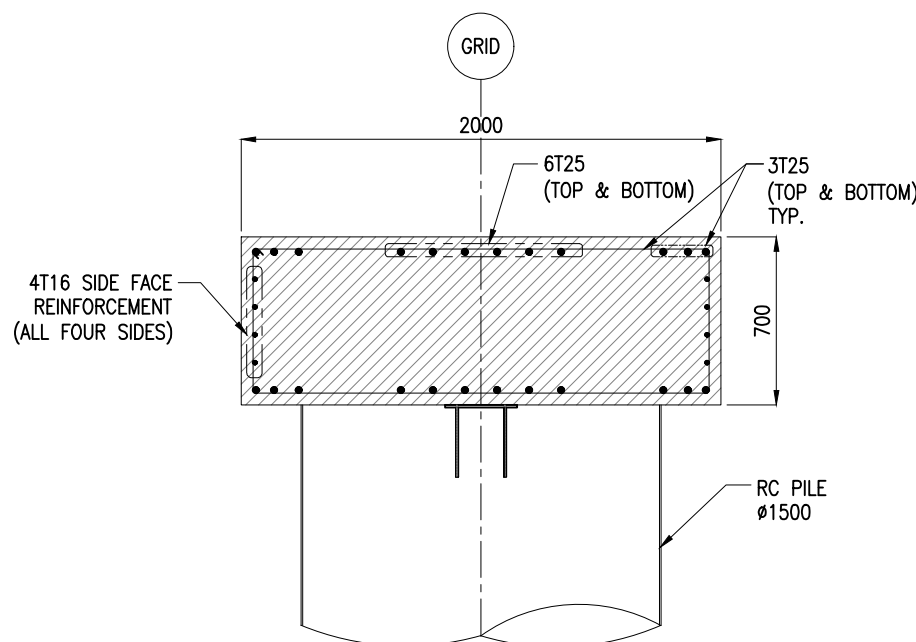


PLAN OF REINFORCEMENT
(SCALE 1:30)



SECTION A
(SCALE 1:30)



PILE MUFF TYPE-II
2000x2000x700

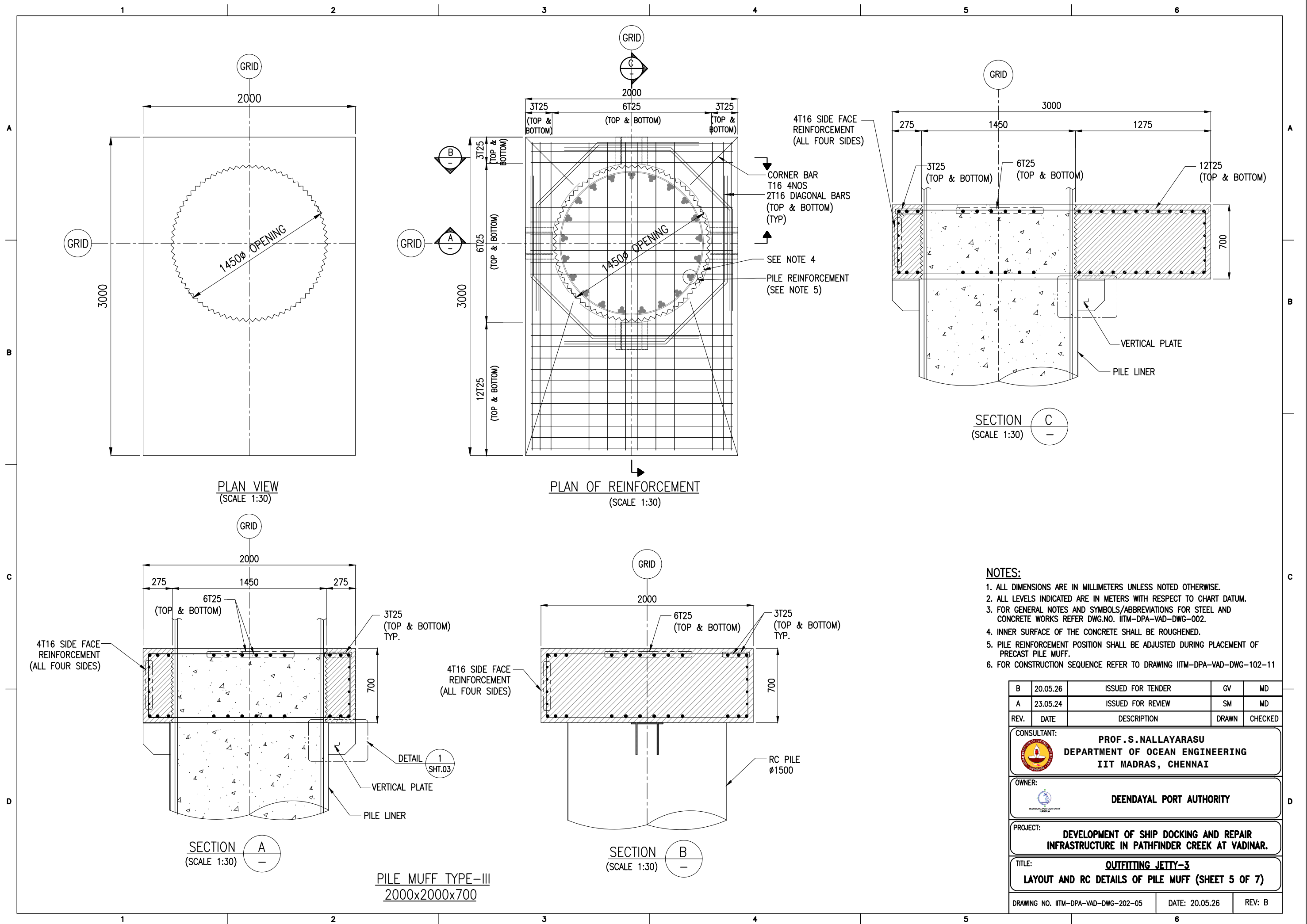




SECTION B
(SCALE 1:30)

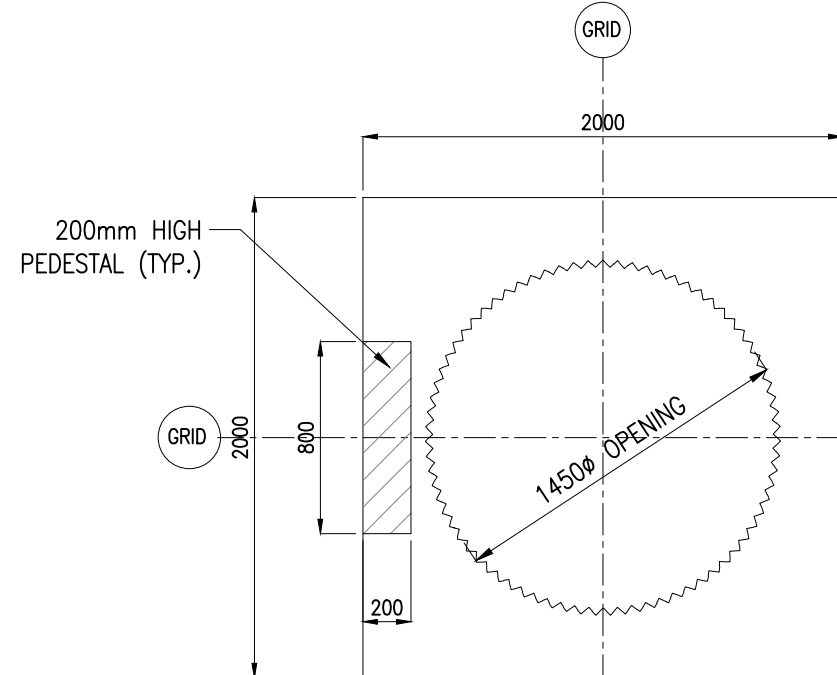
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
5. PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
6. FOR CONSTRUCTION SEQUENCE REFER TO DRAWING IITM-DPA-VAD-DWG-102-11

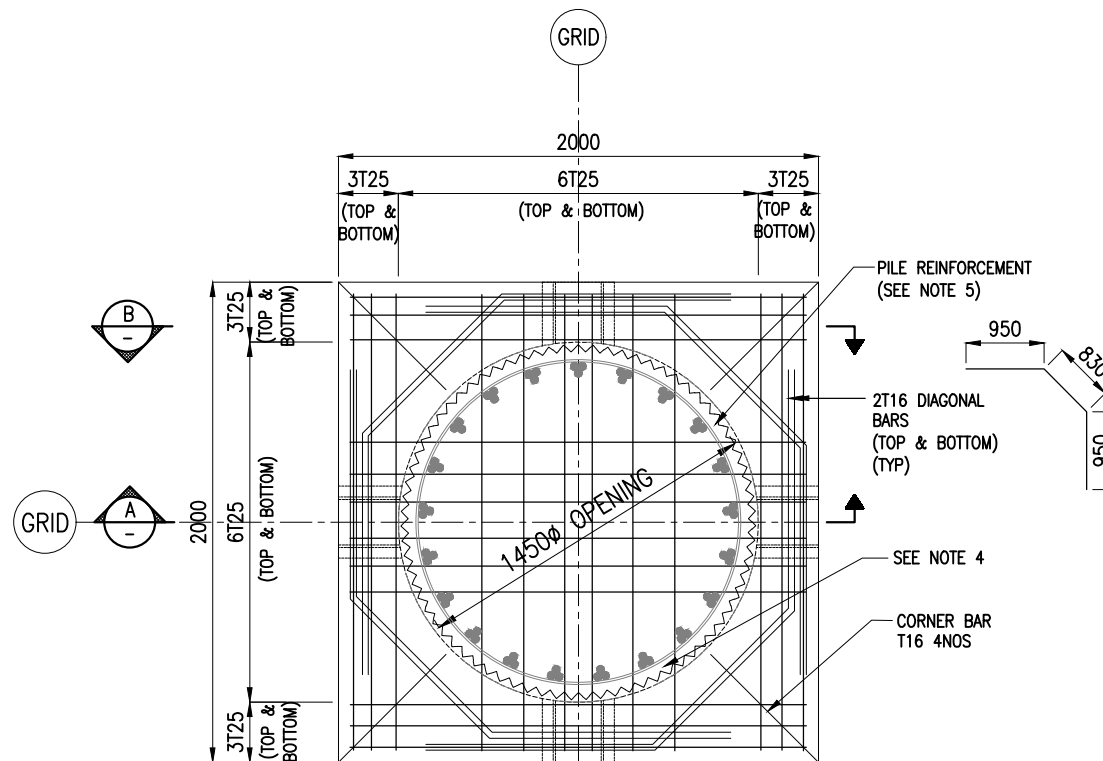
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 4 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-202-04		DATE: 20.05.26		REV: B



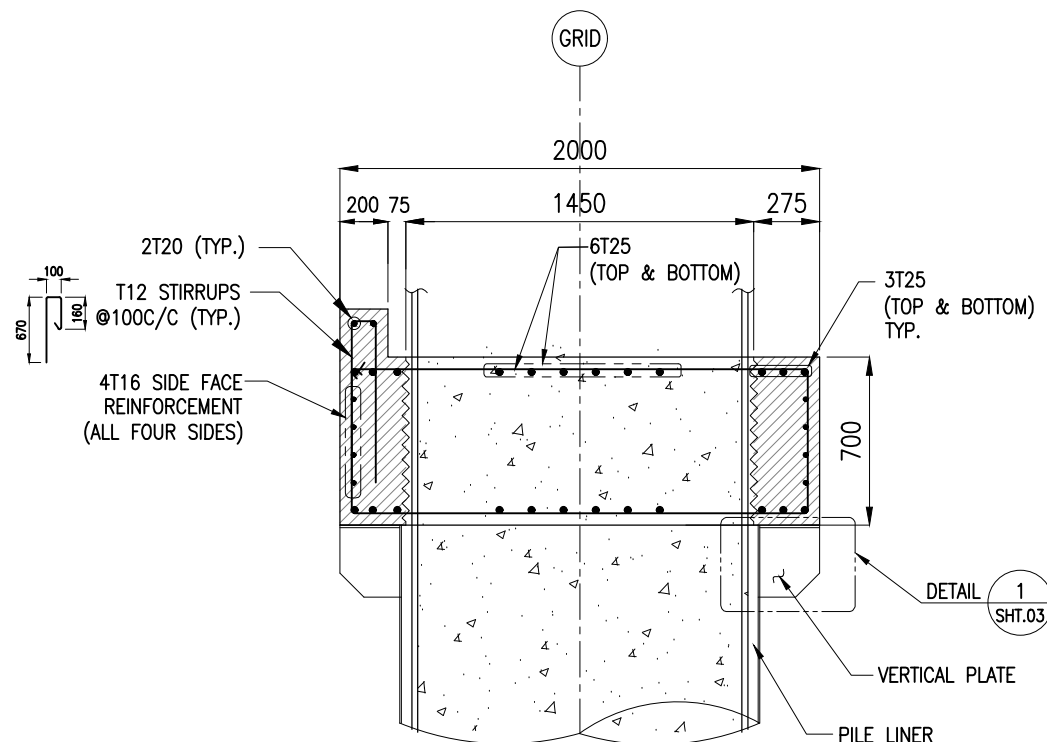
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 5 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-202-05		DATE: 20.05.26		REV: B



PLAN VIEW
(SCALE 1:30)

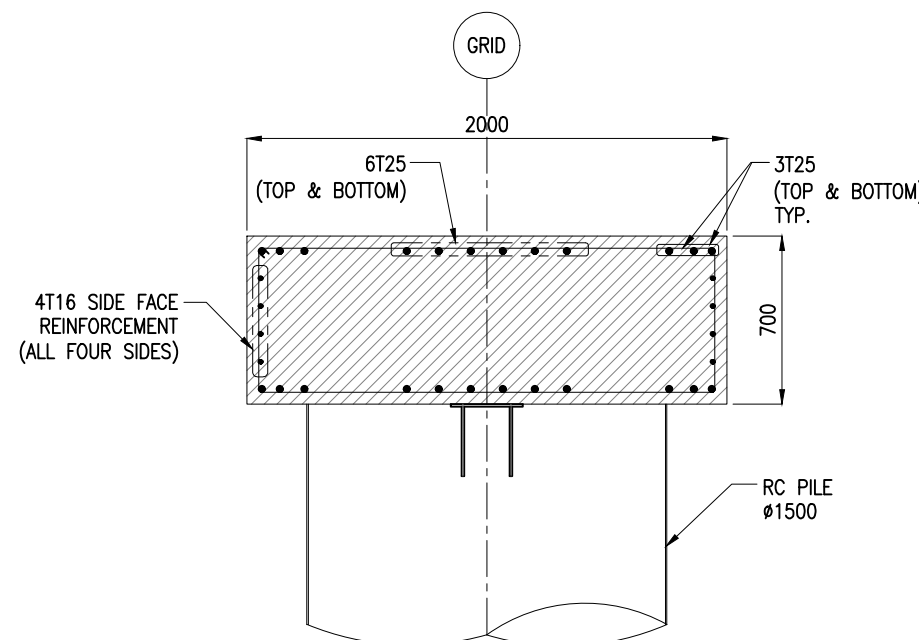


PLAN OF REINFORCEMENT
(SCALE 1:30)



SECTION A
(SCALE 1:30)

PILE MUFF TYPE-IV
2000x2000x700

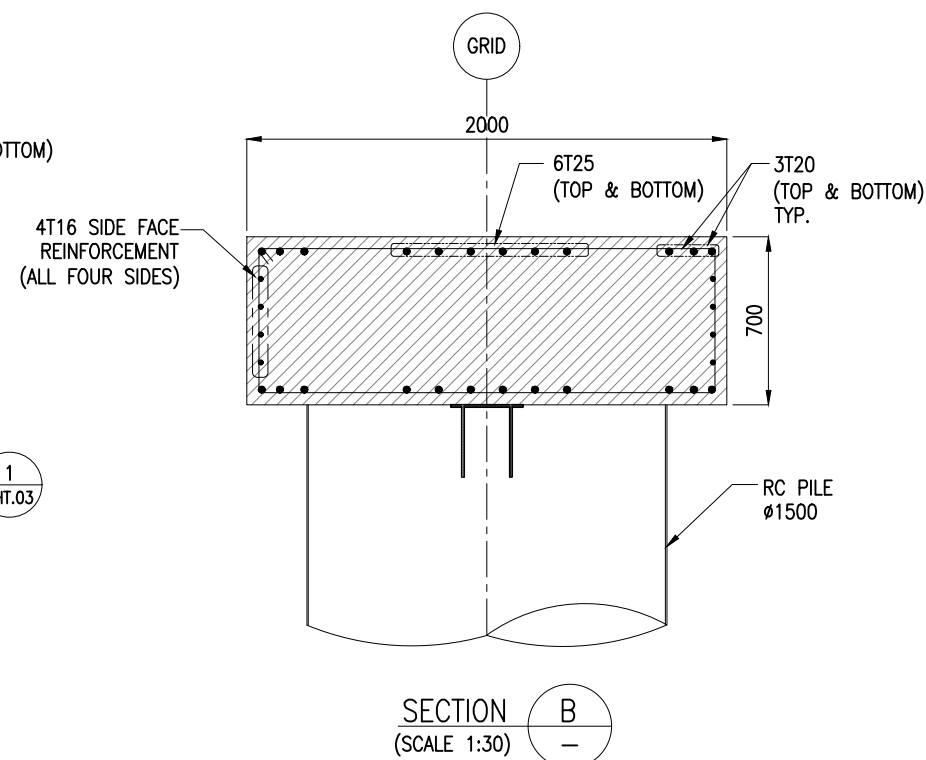
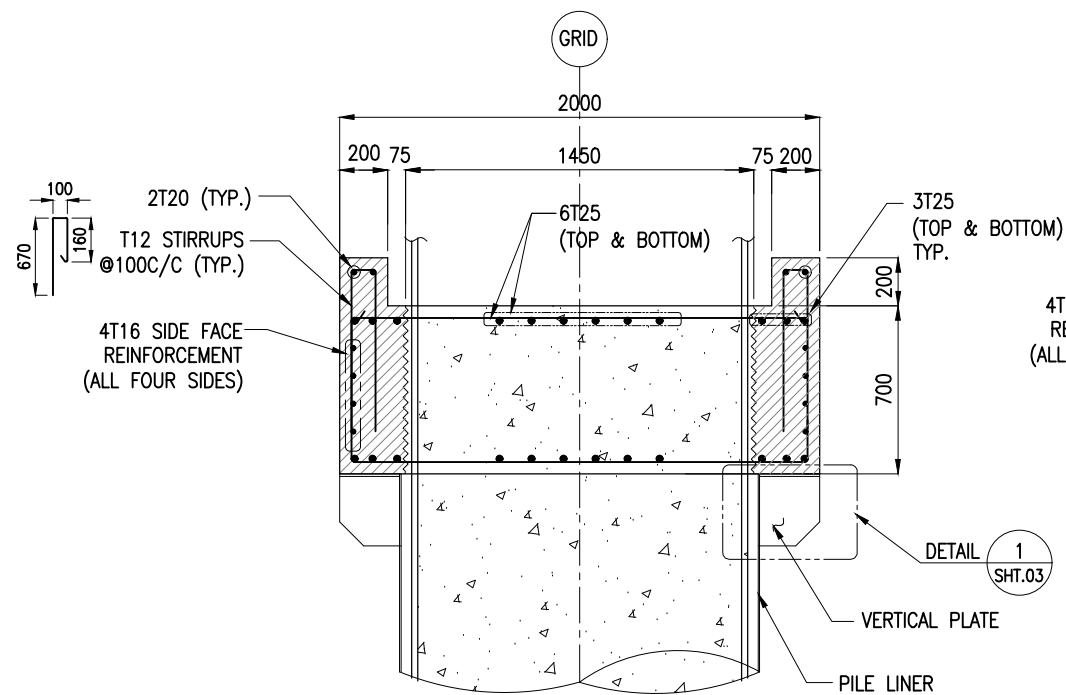
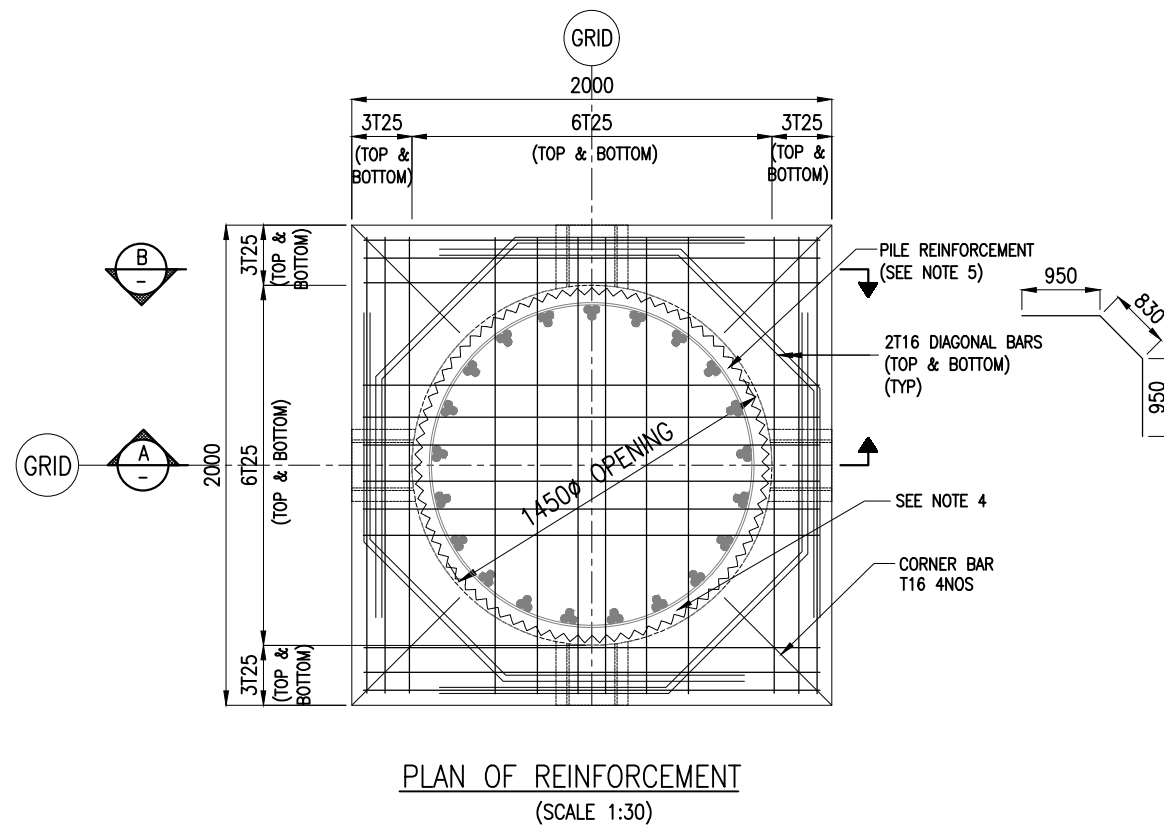
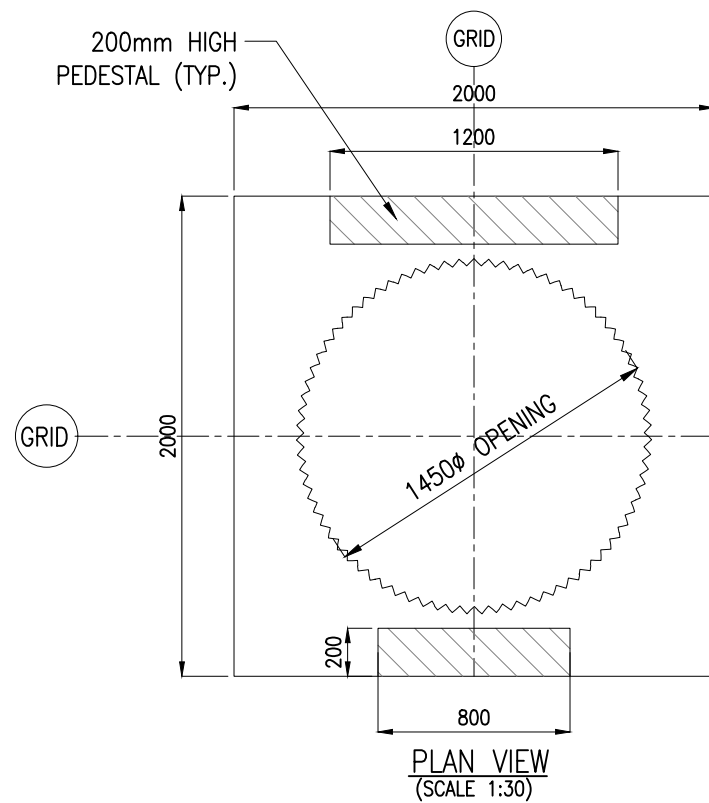


SECTION B
(SCALE 1:30)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
5. PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
6. FOR CONSTRUCTION SEQUENCE REFER TO DRAWING IITM-DPA-VAD-DWG-102-11

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 6 OF 7)				
DRAWING NO. IITM-DPA-VAD-DWG-202-06		DATE: 20.05.26		REV: B



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
5. PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
6. FOR CONSTRUCTION SEQUENCE REFER TO DRAWING IITM-DPA-VAD-DWG-102-11

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED

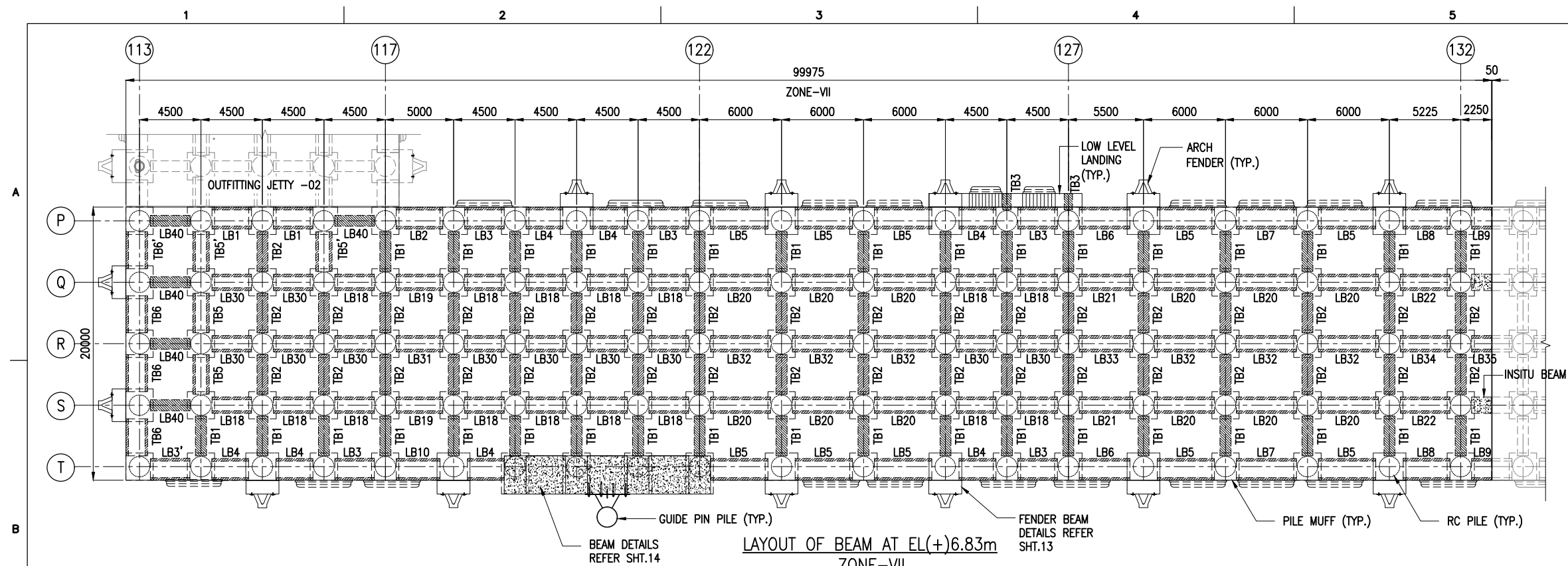
CONSULTANT: **PROF. S. NALLAYARASU**
DEPARTMENT OF OCEAN ENGINEERING
IIT MADRAS, CHENNAI

OWNER:	DEENDAYAL PORT AUTHORITY	D
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PROJECT: **DEVELOPMENT OF SHIP DOCKING AND REPAIR
INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.**

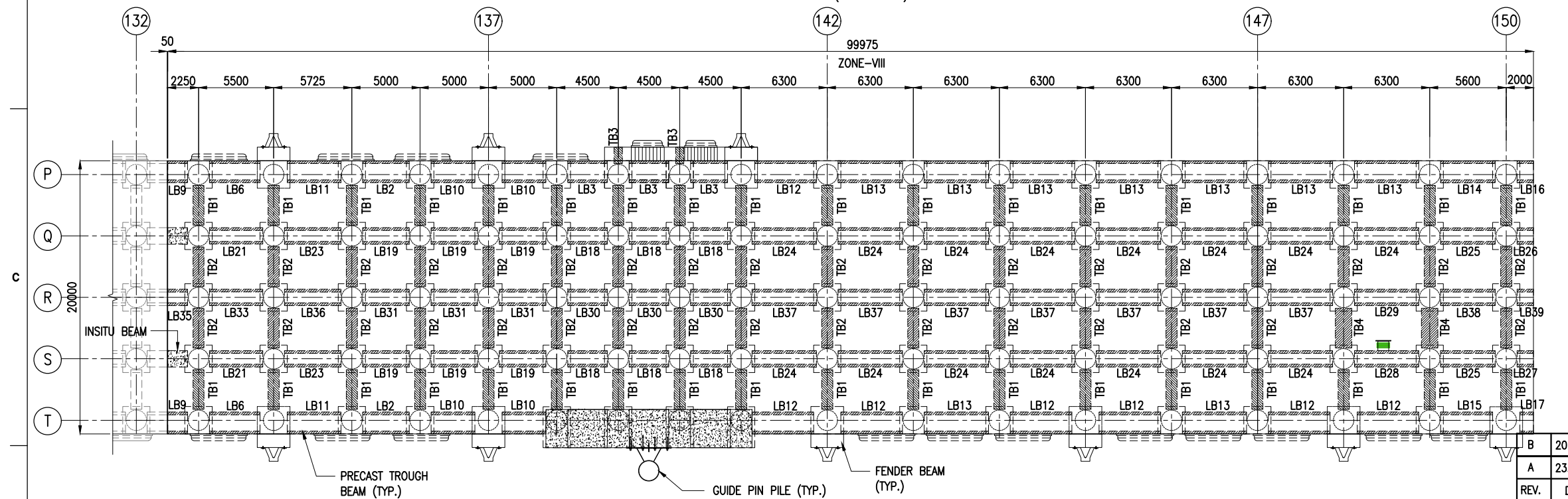
TITLE: **OUTFITTING JETTY-3**
LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 7 OF 7)

DRAWING NO. IITM-DPA-VAD-DWG-202-07	DATE: 20.05.26	REV: B
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PRECAST BEAM SCHEDULE

TYPE	L (mm)	B (mm)	D (mm)	WEIGHT(T)	NOS
LB1	2900	1600	1000	4.64	2
LB2	3400	1600	1000	5.44	3
LB3	2900	1600	1000	4.64	8
LB3'	2900	1600	1000	4.64	1
LB4	2700	1600	1000	4.32	7
LB5	4200	1600	1000	6.72	10
LB6	3700	1600	1000	5.92	4
LB7	4400	1600	1000	7.04	2
LB8	3425	1600	1000	5.48	2
LB9	1450	1600	1000	2.32	4
LB10	3200	1600	1000	5.12	5
LB11	3925	1600	1000	6.28	2
LB12	4500	1600	1000	7.20	7
LB13	4700	1600	1000	7.52	9
LB14	4000	1600	1000	6.40	1
LB15	3800	1600	1000	6.08	1
LB16	1200	1600	1000	1.92	1
LB17	1000	1600	1000	1.60	1
LB18	2900	1200	1000	4.49	22
LB19	3400	1200	1000	5.27	8
LB20	4400	1200	1000	6.82	12
LB21	3900	1200	1000	6.05	4
LB22	3625	1200	1000	5.62	2
LB23	4125	1200	1000	6.39	2
LB24	4700	1200	1000	7.28	15
LB25	4000	1200	1000	6.20	2
LB26	1200	1200	1000	1.86	1
LB27	1200	1200	1000	1.86	1
LB28	4700	1200	1000	7.29	1
LB29	4700	1200	700	5.86	1
LB30	2900	1200	1000	4.06	14



LB31	3400	1200	1000	4.76	4
LB32	4400	1200	1000	6.16	6
LB33	3900	1200	1000	5.46	2
LB34	3625	1200	1000	5.07	1
LB35	1450	1200	1000	2.03	2
LB36	4125	1200	1000	5.77	1
LB37	4700	1200	1000	6.58	7
LB38	4000	1200	1000	5.60	1
LB39	1200	1200	1000	1.68	1
LB40	2900	800	800	5.13	5

PRECAST TROUGH/BEAM SCHEDULE

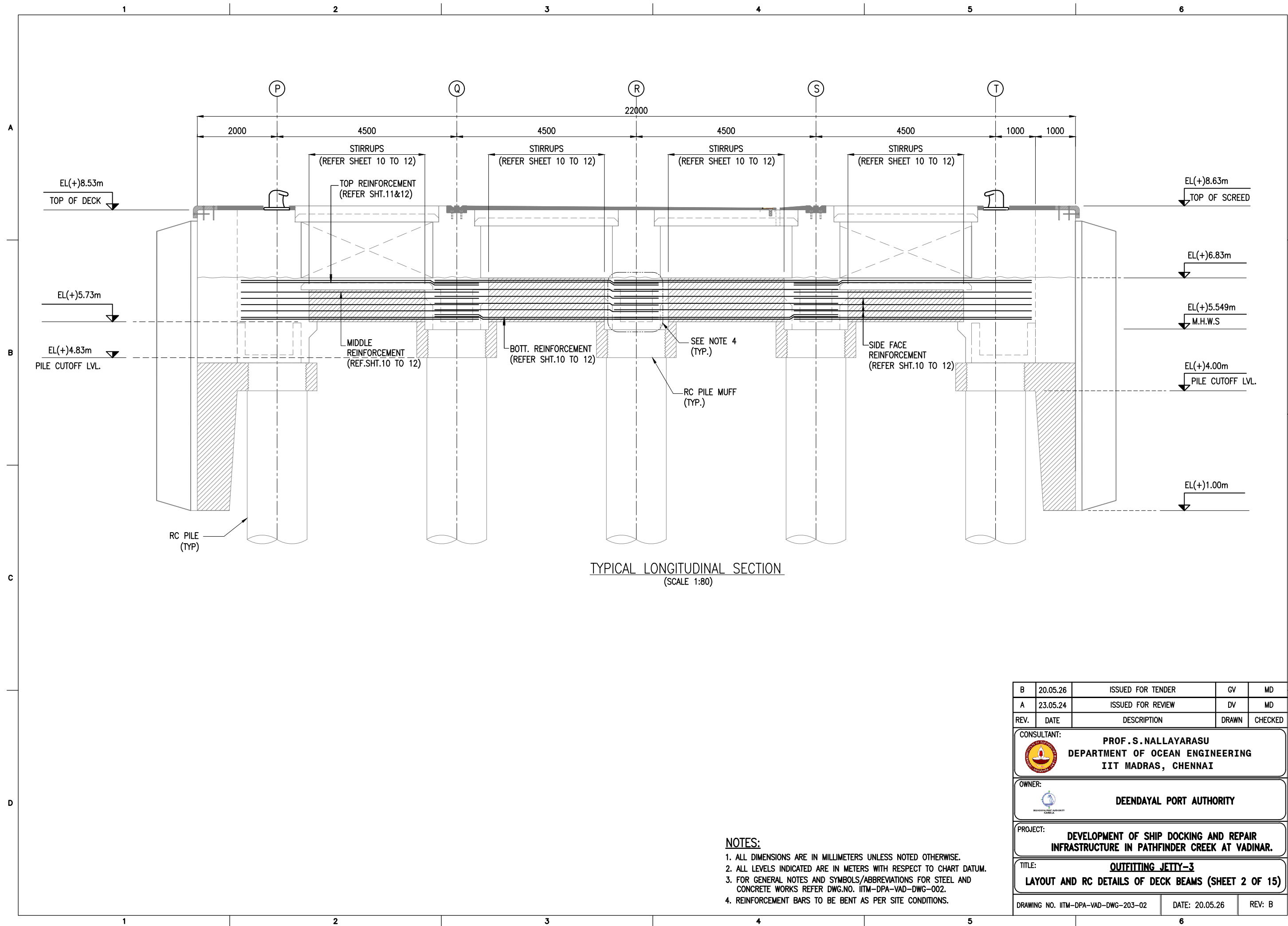
TYPE	L (mm)	B (mm)	D (mm)	WEIGHT(T)	NOS
TB1	2900	800	800	5.13	71
TB2	2900	800	1100	6.38	71
TB3	1200	600	550	0.99	4
TB4	2900	1200	500	4.56	2
TB5	2900	1200	1000	4.49	2
TB5'	2900	1200	1000	4.49	2
TB6	2700	1600	1000	5.02	3
TB6'	2700	1600	1000	5.02	1

LEGEND:
 - PRECAST
 - INSITU

NOTES:



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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

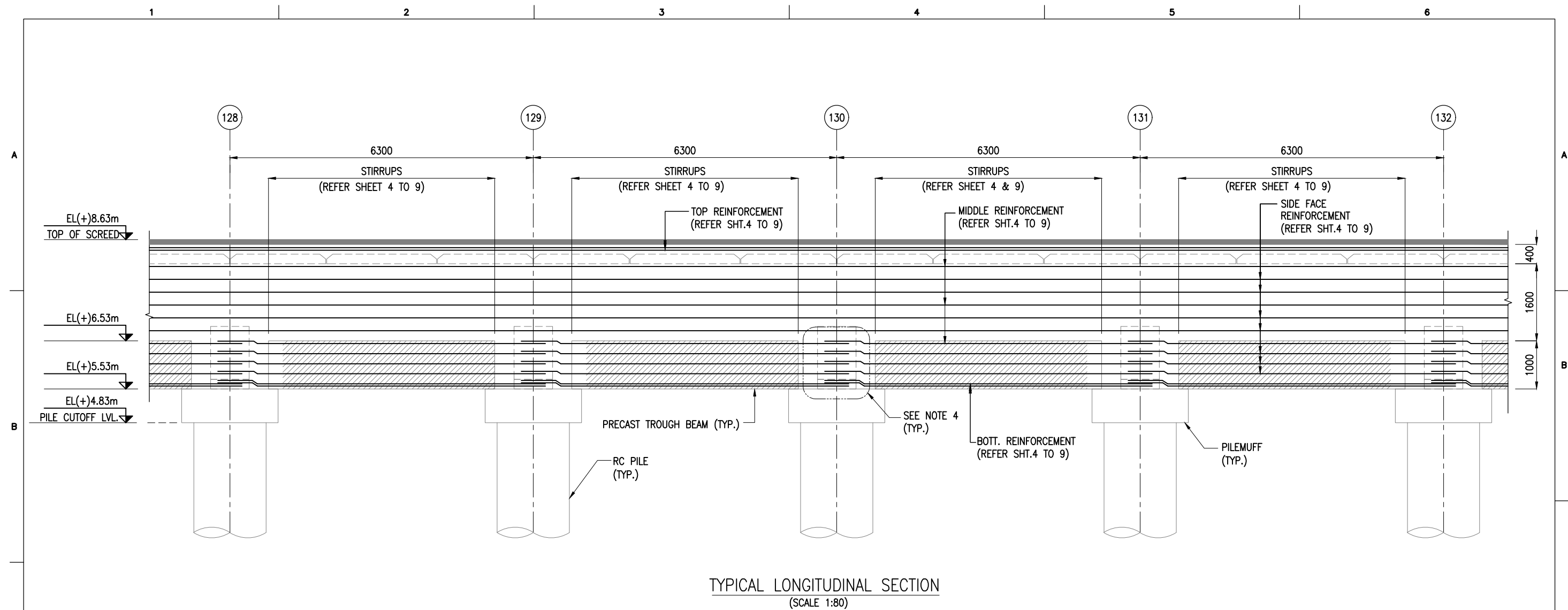
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 1 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-01		DATE: 20.05.26		REV: B



NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

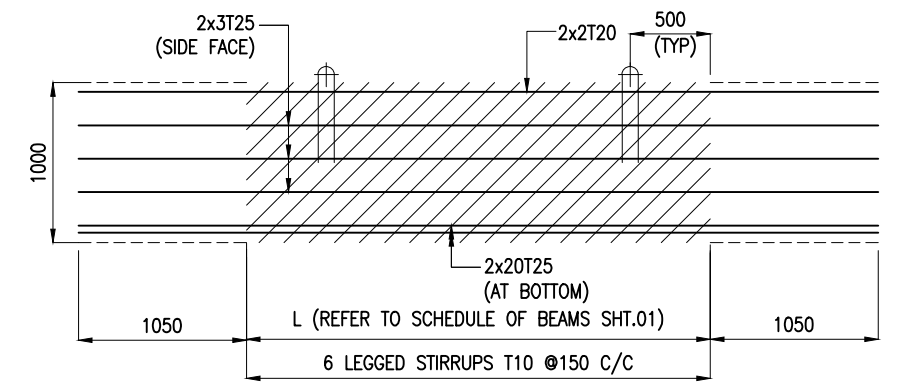
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-02			DATE: 20.05.26	REV: B



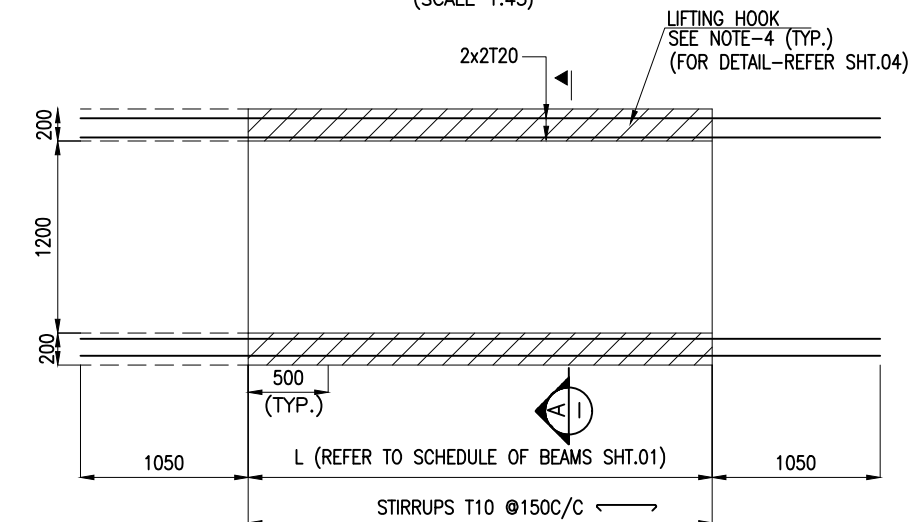
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

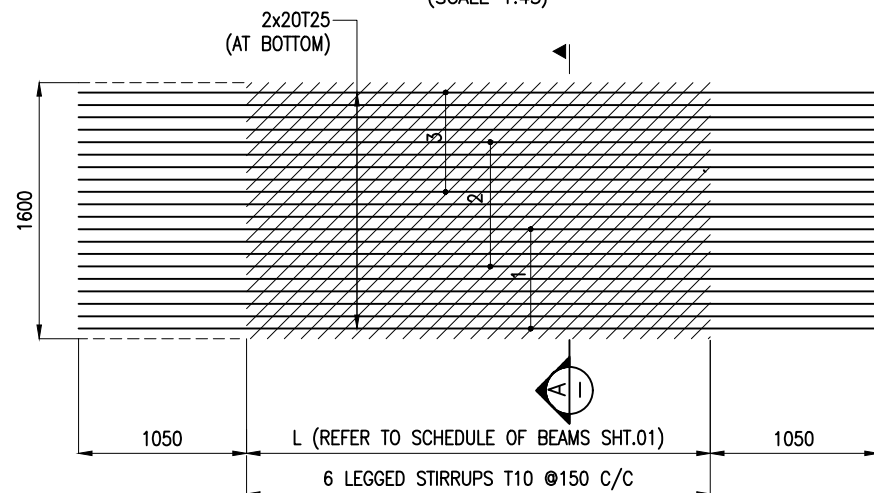
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-03			DATE: 20.05.26	REV: B



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

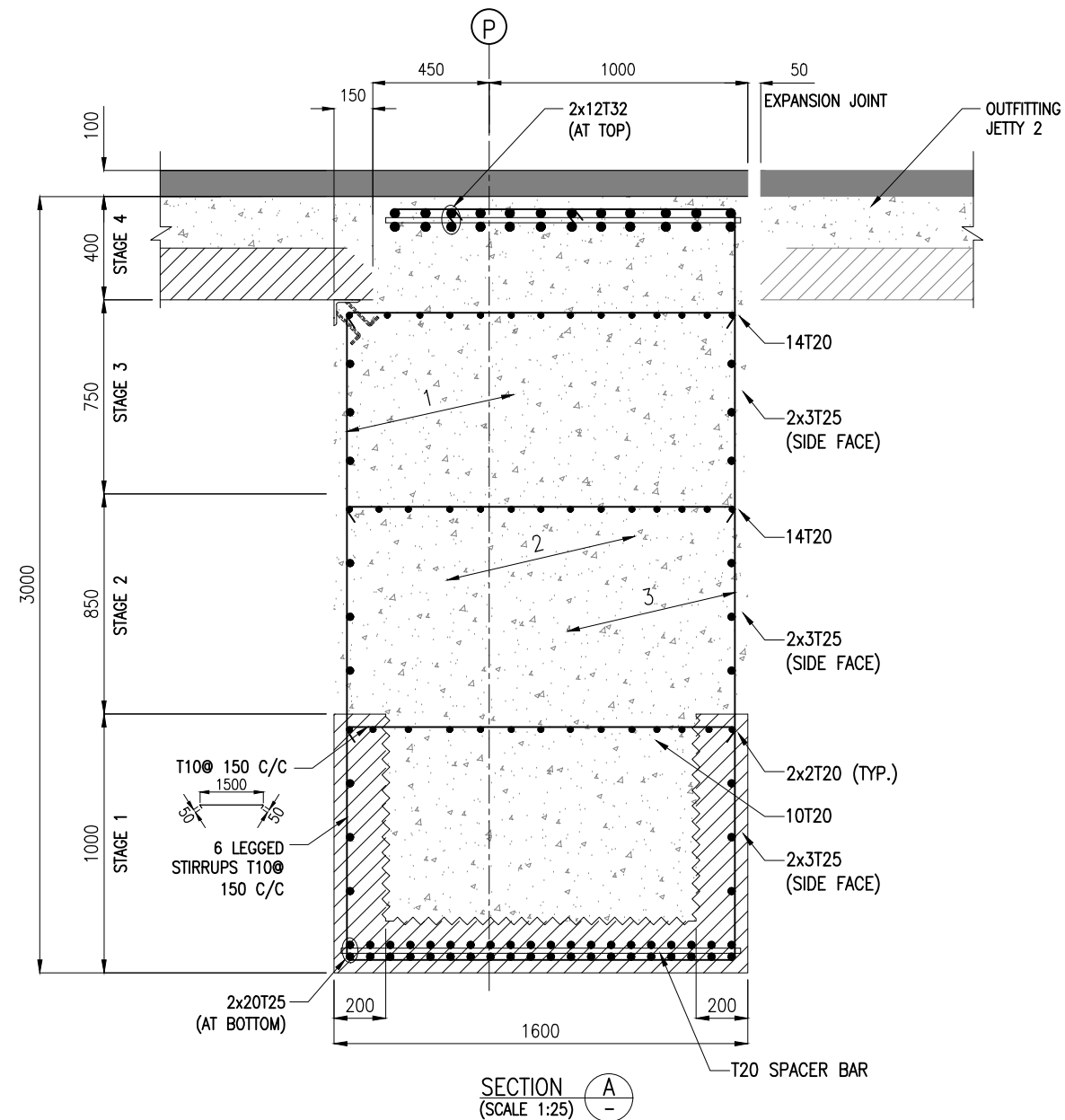


TOP VIEW OF TROUGH
(SCALE 1:45)



BOTTOM VIEW OF TROUGH
(SCALE 1:45)

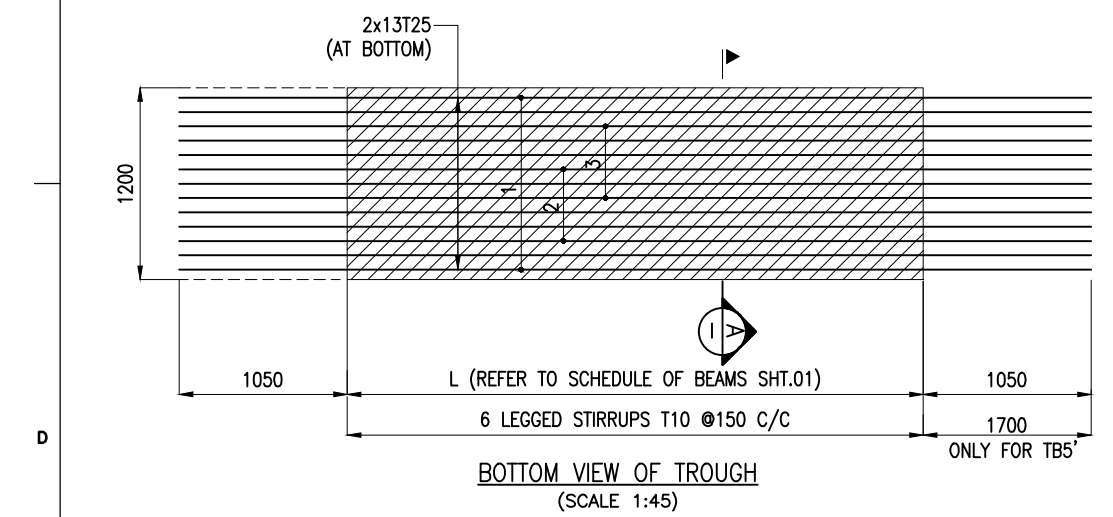
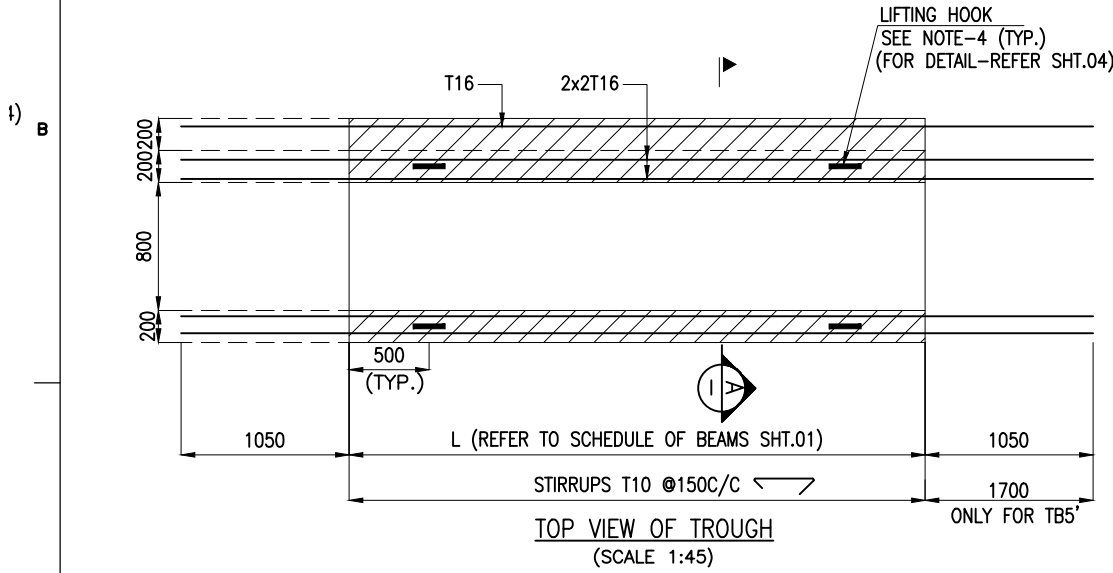
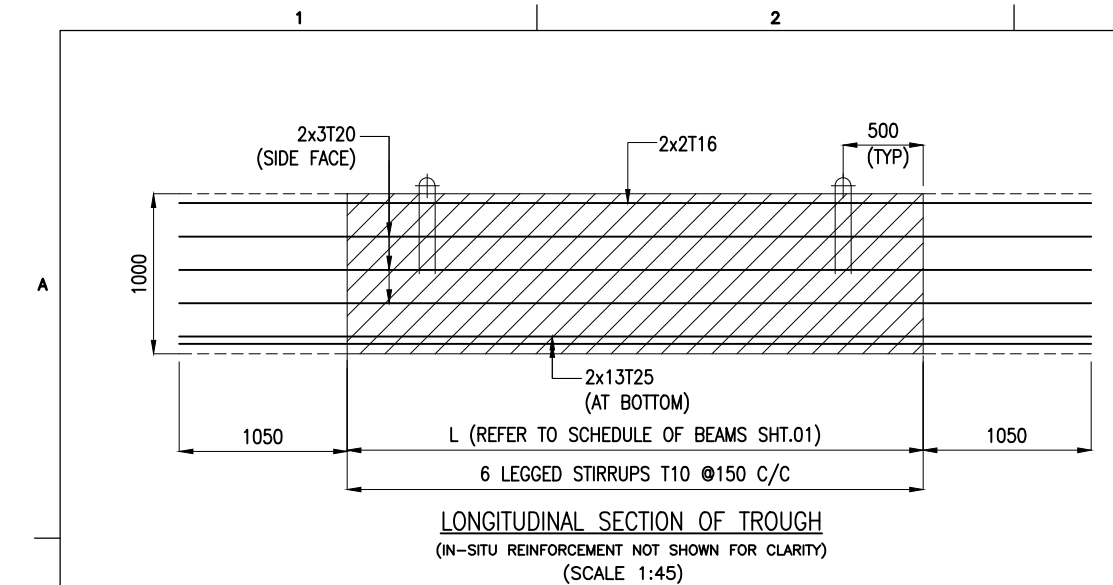
REINFORCEMENT DETAILS FOR BEAMS: LB1



NOTES:

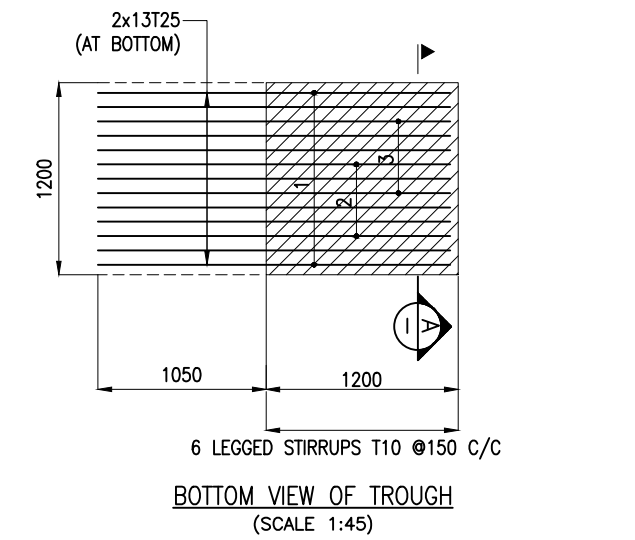
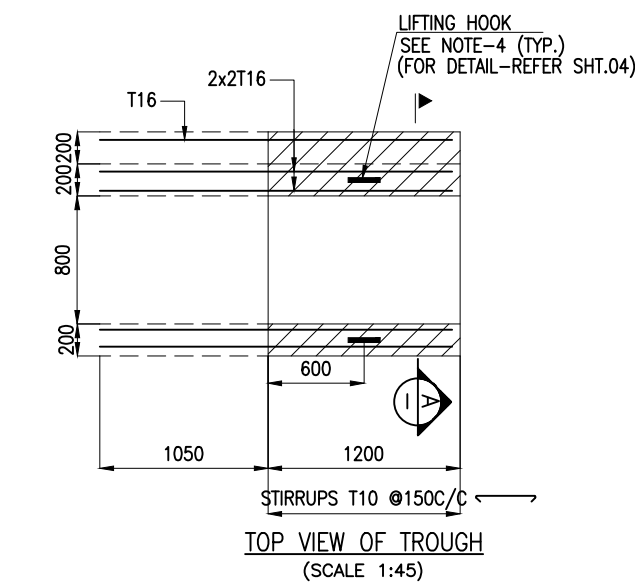
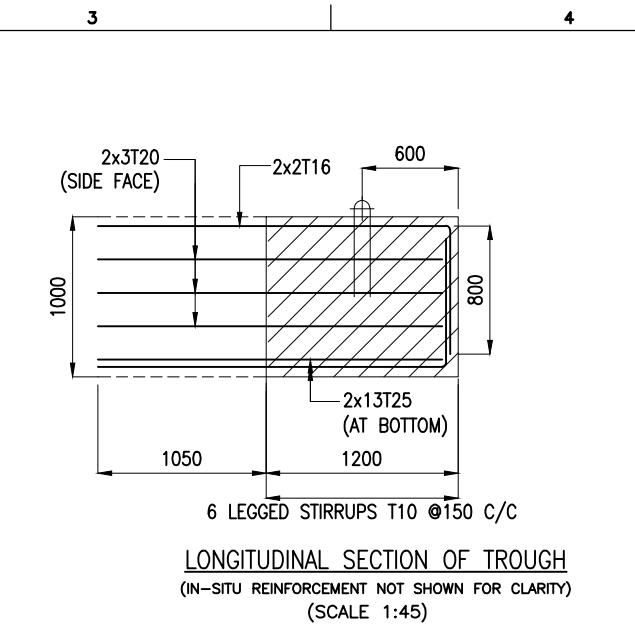
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-05			DATE: 20.05.26	REV: B



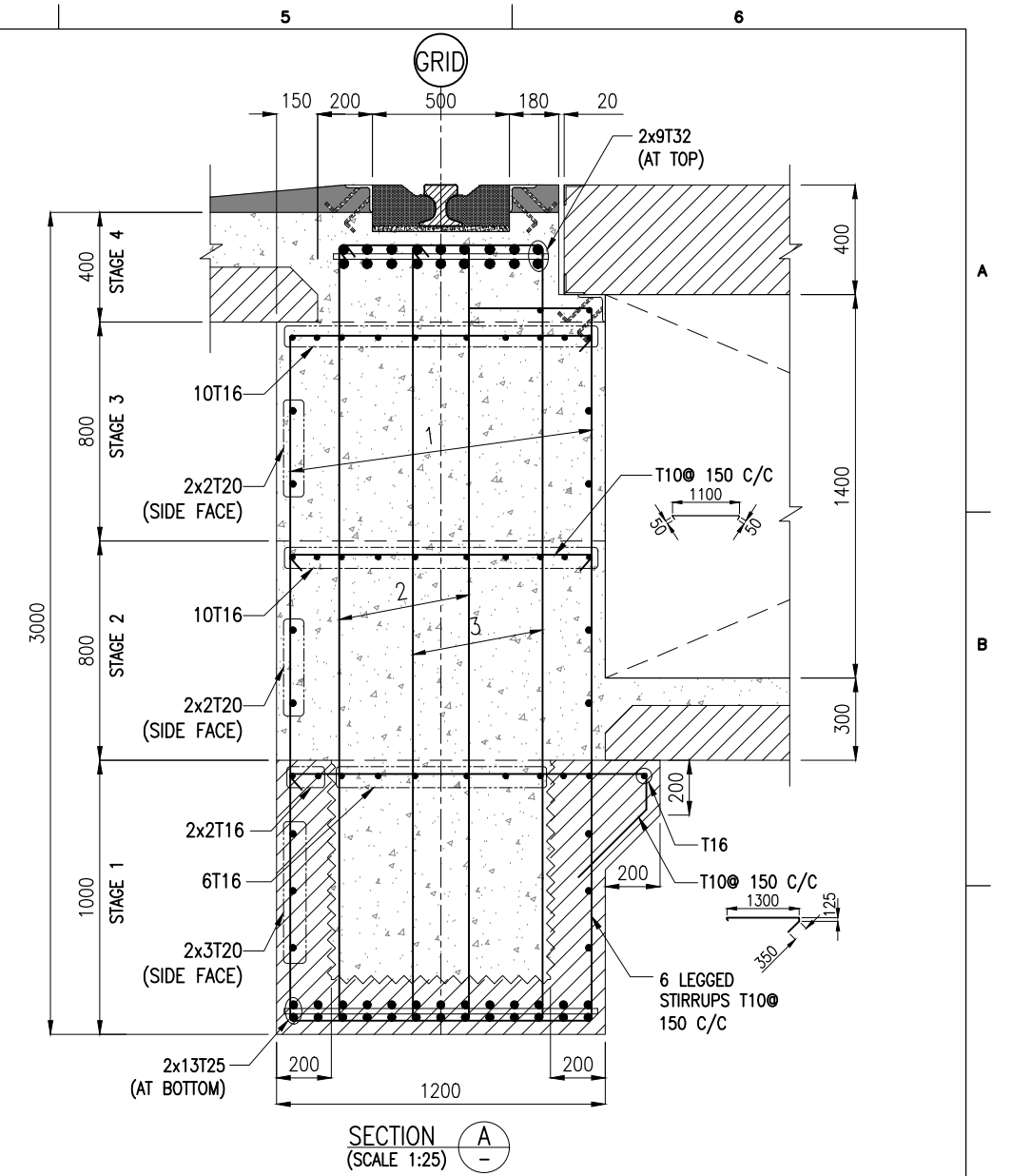
REINFORCEMENT DETAILS FOR BEAMS: LB18 TO LB25 & TB5/TB5'

17





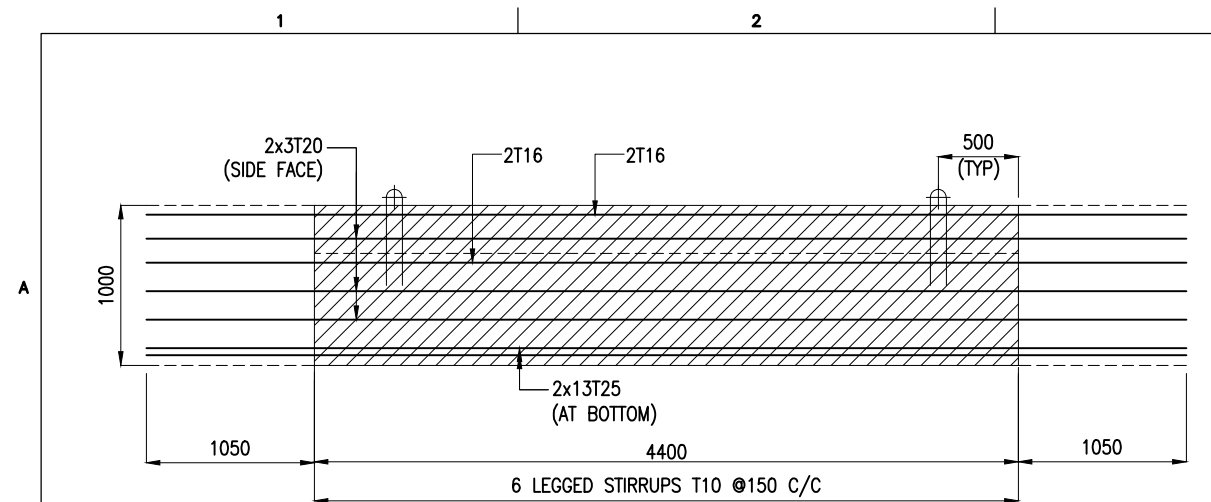
REINFORCEMENT DETAILS FOR BEAMS: LB26/LB27

LB26 : AS SHOWN
LB27 : OPP. HAND

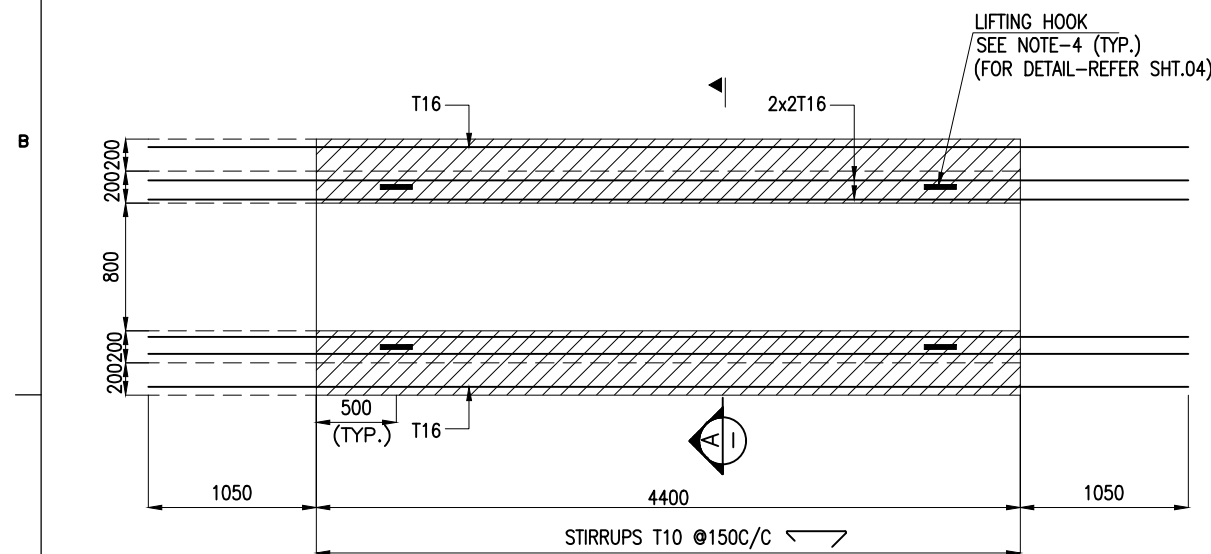


- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 - FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 - PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
 - THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

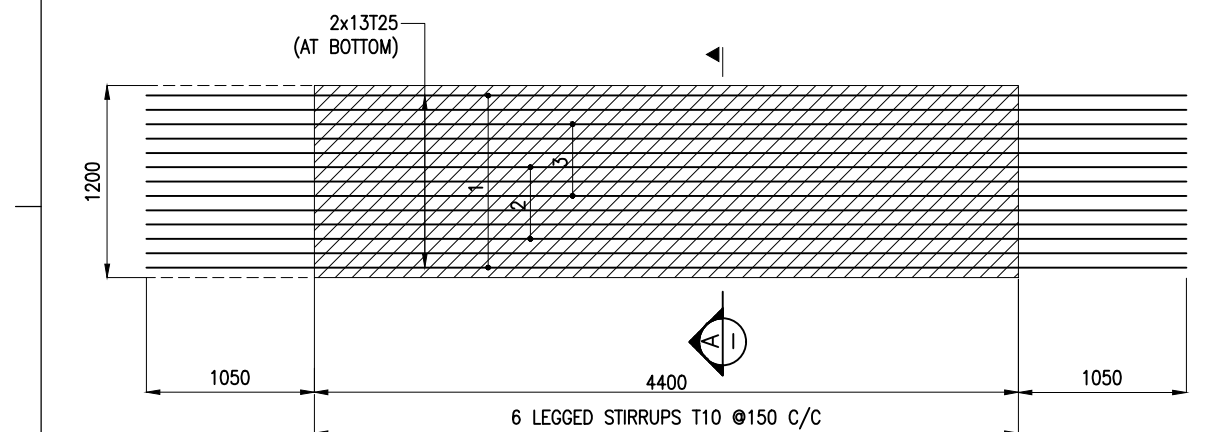
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-06		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

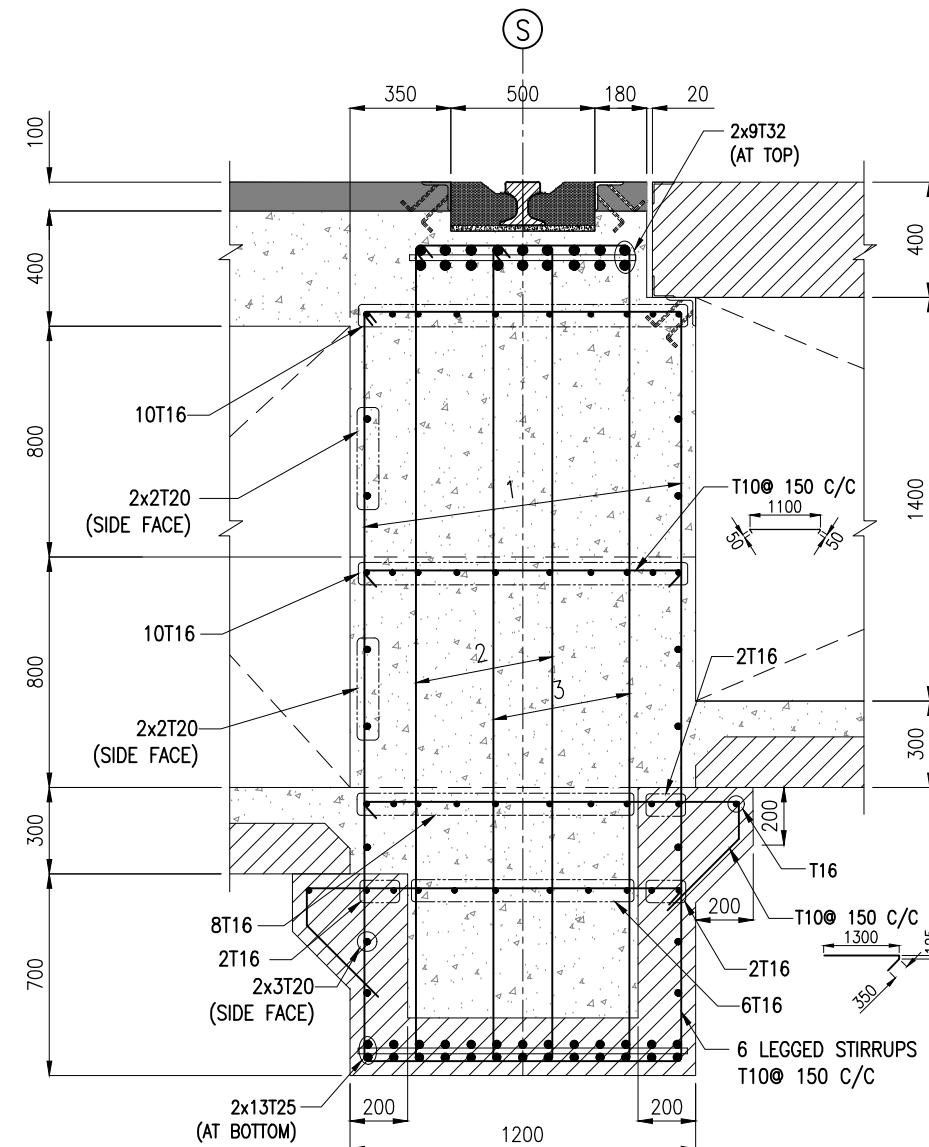


TOP VIEW OF TROUGH
(SCALE 1:45)



BOTTOM VIEW OF TROUGH
(SCALE 1:45)



REINFORCEMENT DETAILS FOR BEAMS: LB28

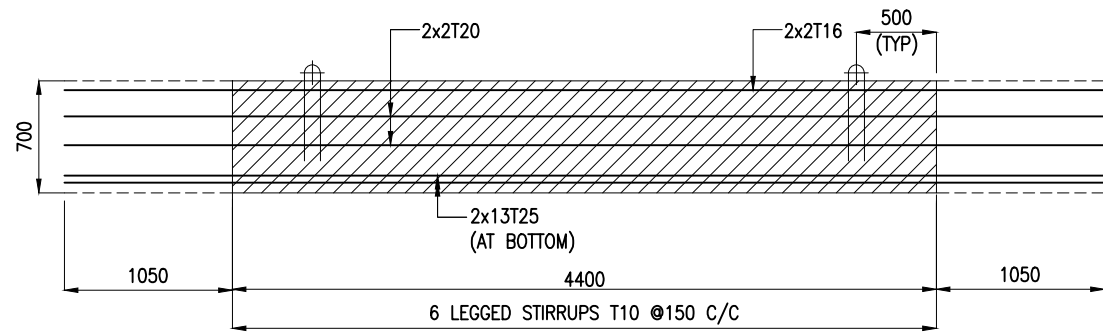


SECTION A-A
(SCALE 1:25)

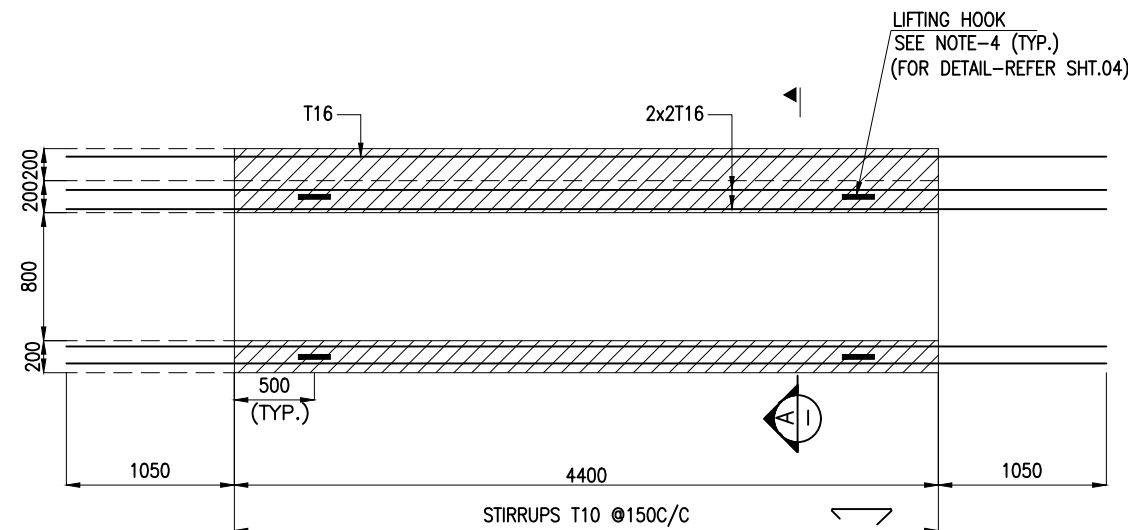
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
5. THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

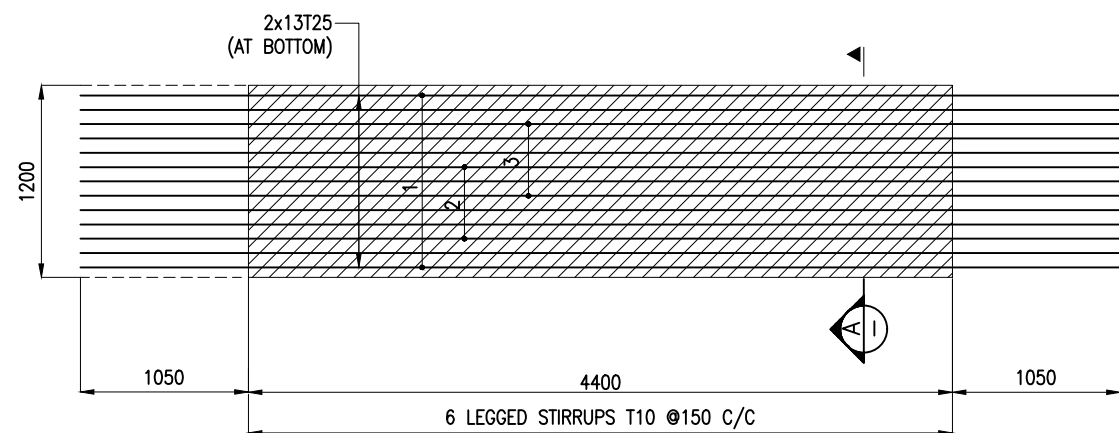
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 7 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-07		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

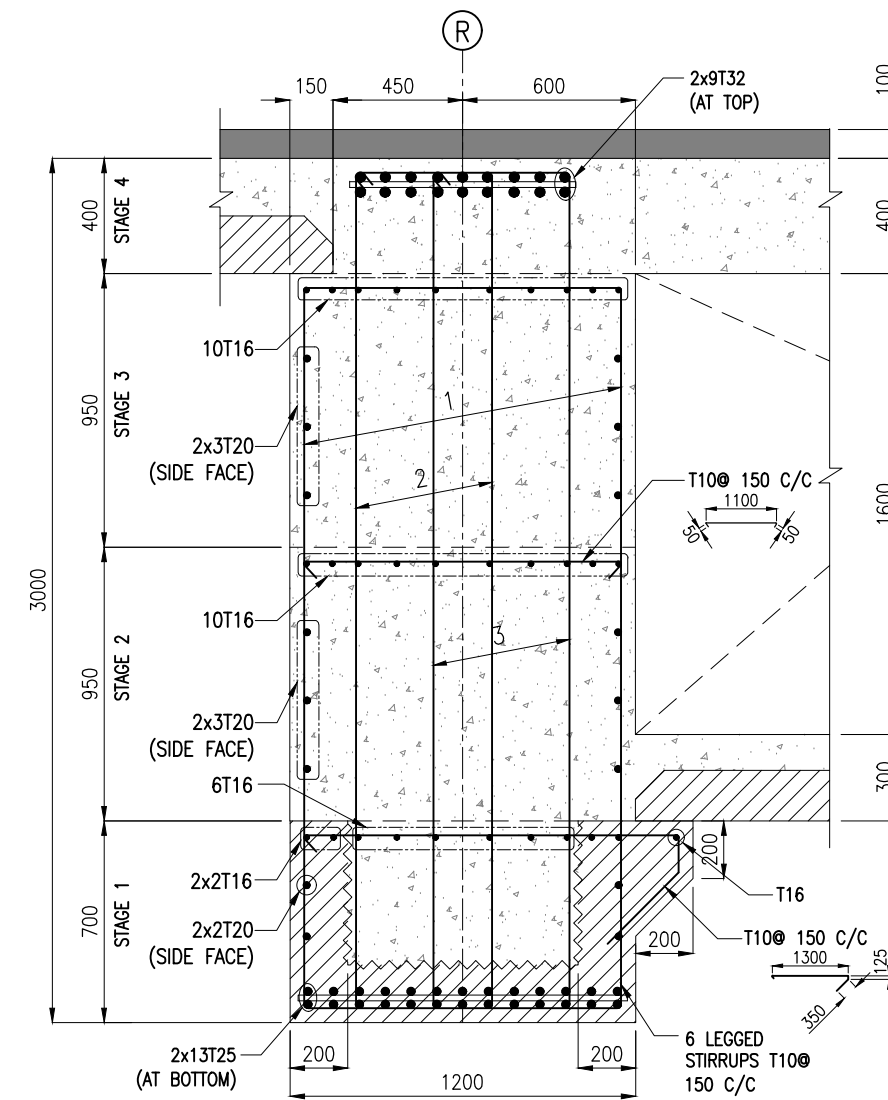


TOP VIEW OF TROUGH
(SCALE 1:45)



BOTTOM VIEW OF TROUGH
(SCALE 1:45)



REINFORCEMENT DETAILS FOR BEAMS: LB29

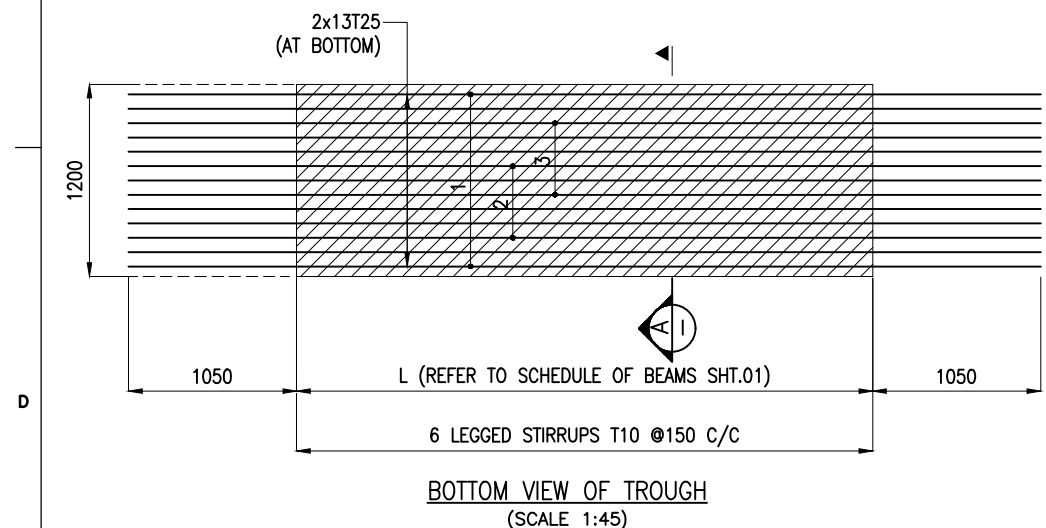
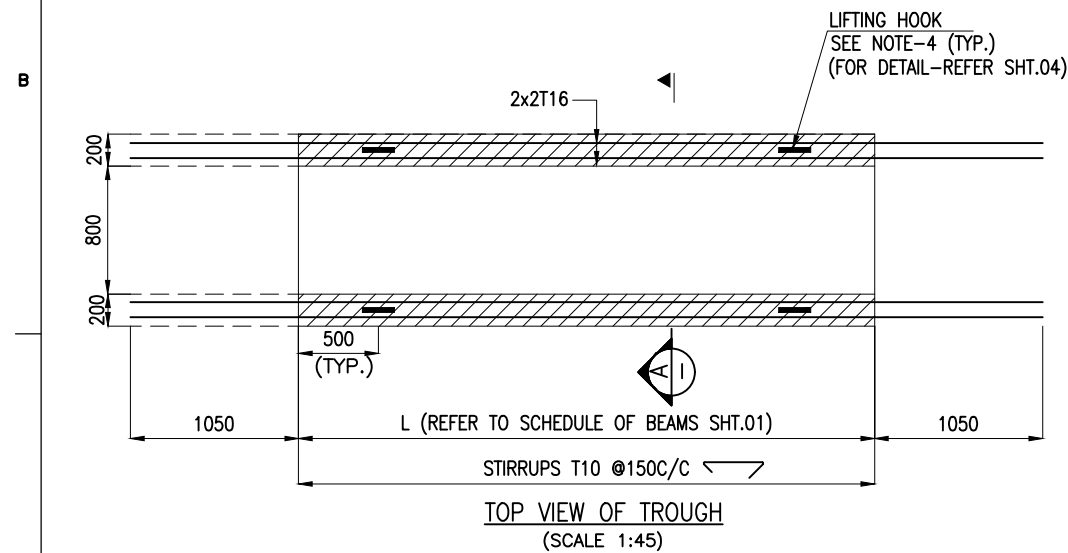
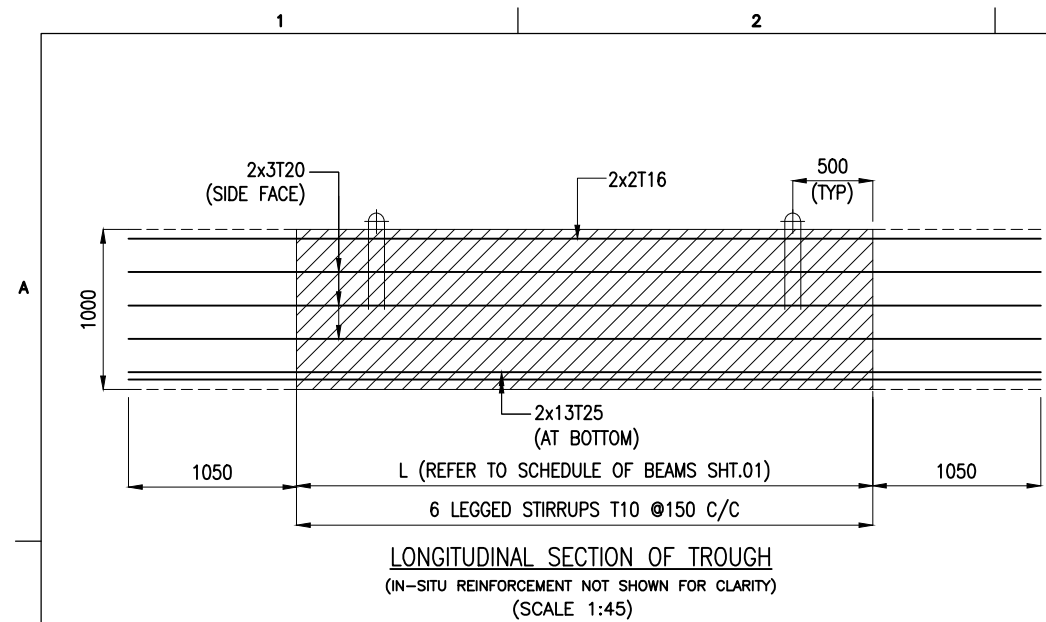


SECTION A-A
(SCALE 1:25)

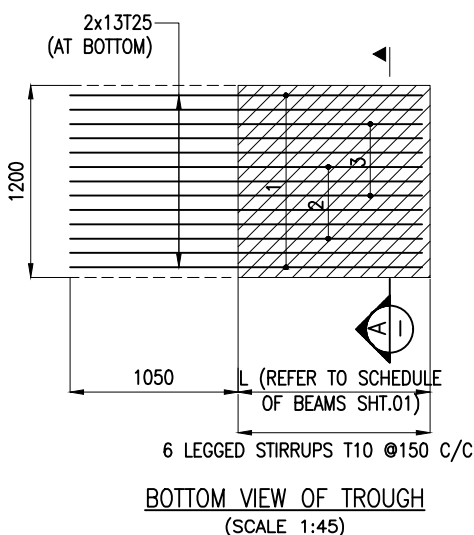
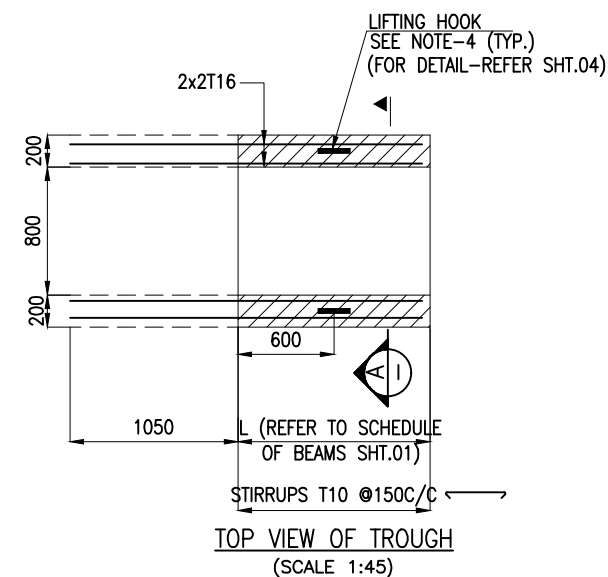
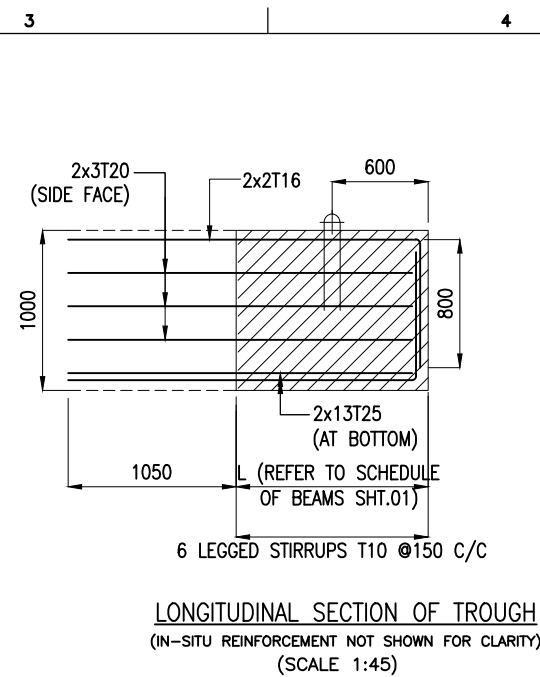
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

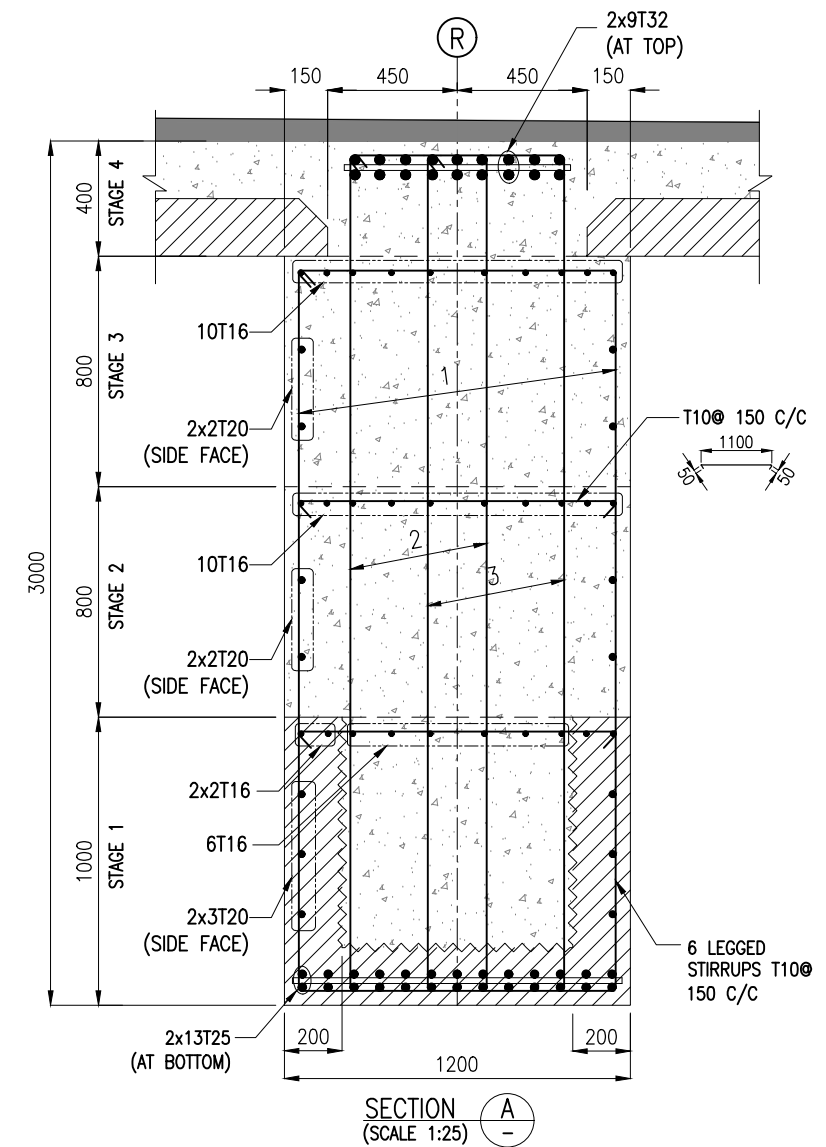
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 8 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-08			DATE: 20.05.26	REV: B



REINFORCEMENT DETAILS FOR BEAMS: LB30 TO LB34 & LB36/LB37/LB38





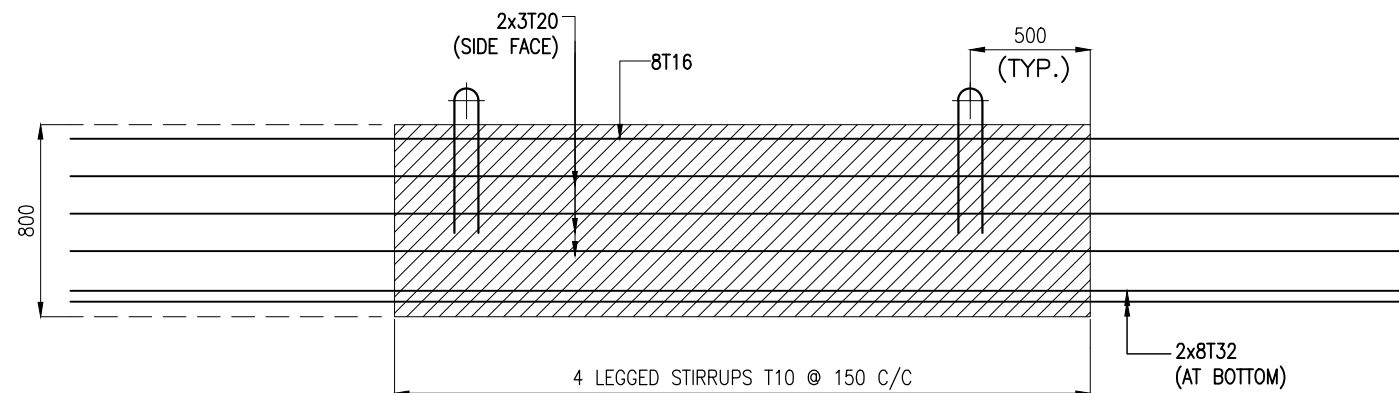
REINFORCEMENT DETAILS FOR BEAMS: LB35/LB39



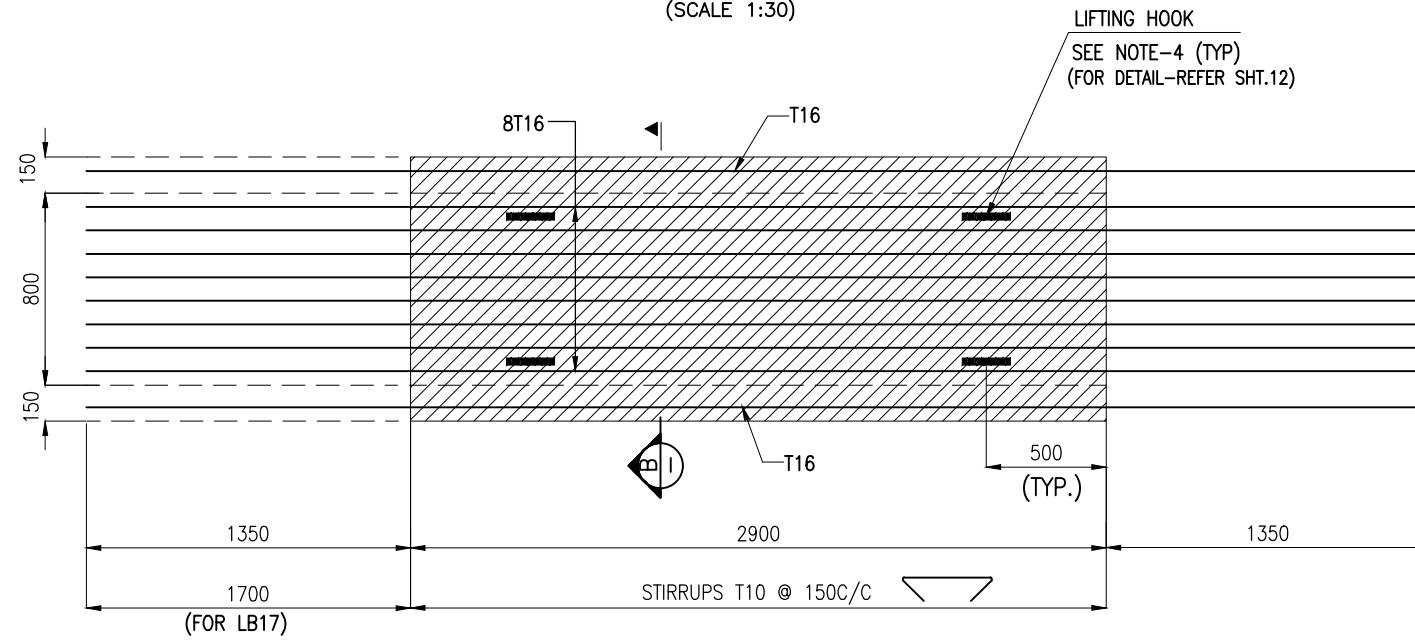
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

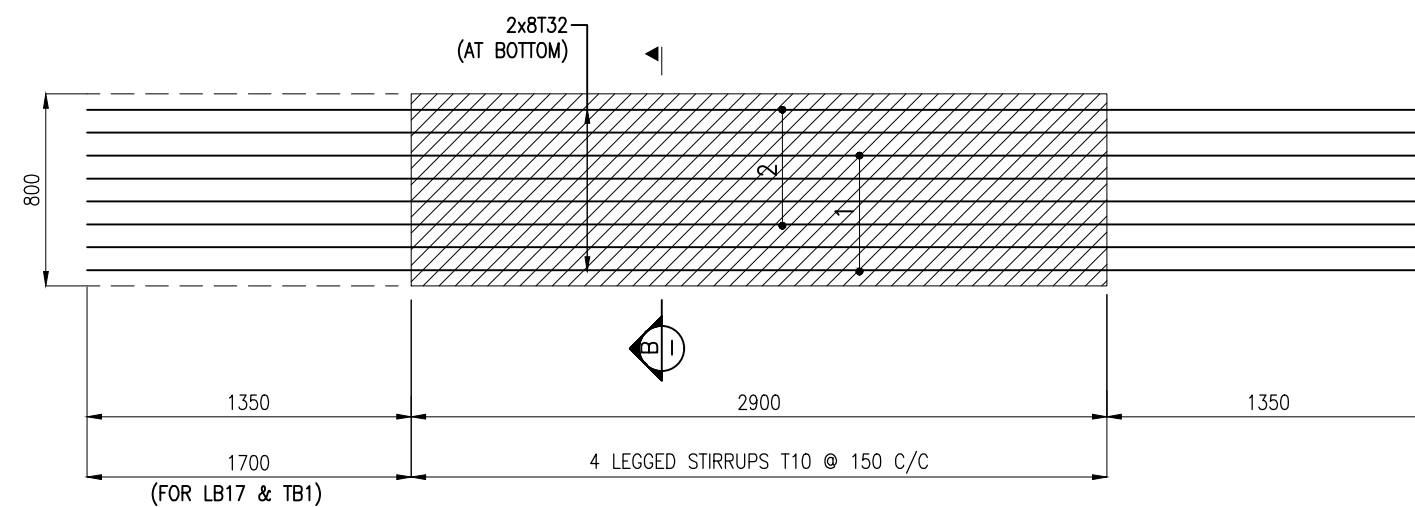
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 9 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-09		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF PRECAST BEAM
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:30)

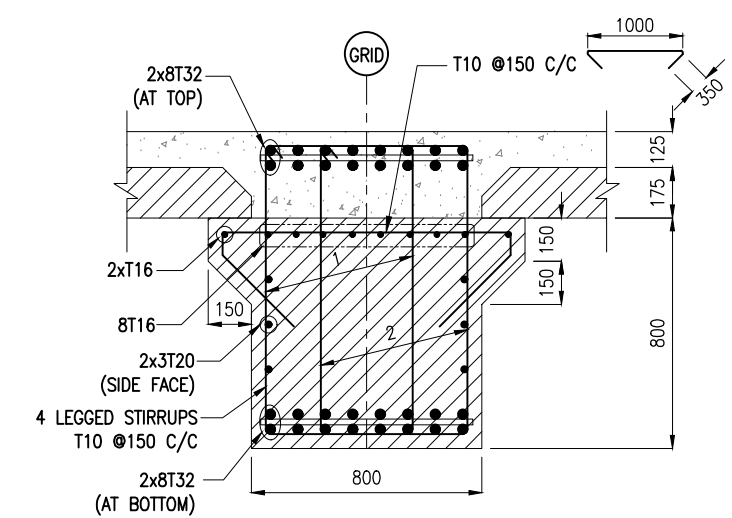


TOP VIEW OF PRECAST BEAM
(SCALE 1:30)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:30)

REINFORCEMENT DETAILS FOR BEAMS: LB40 & TB1

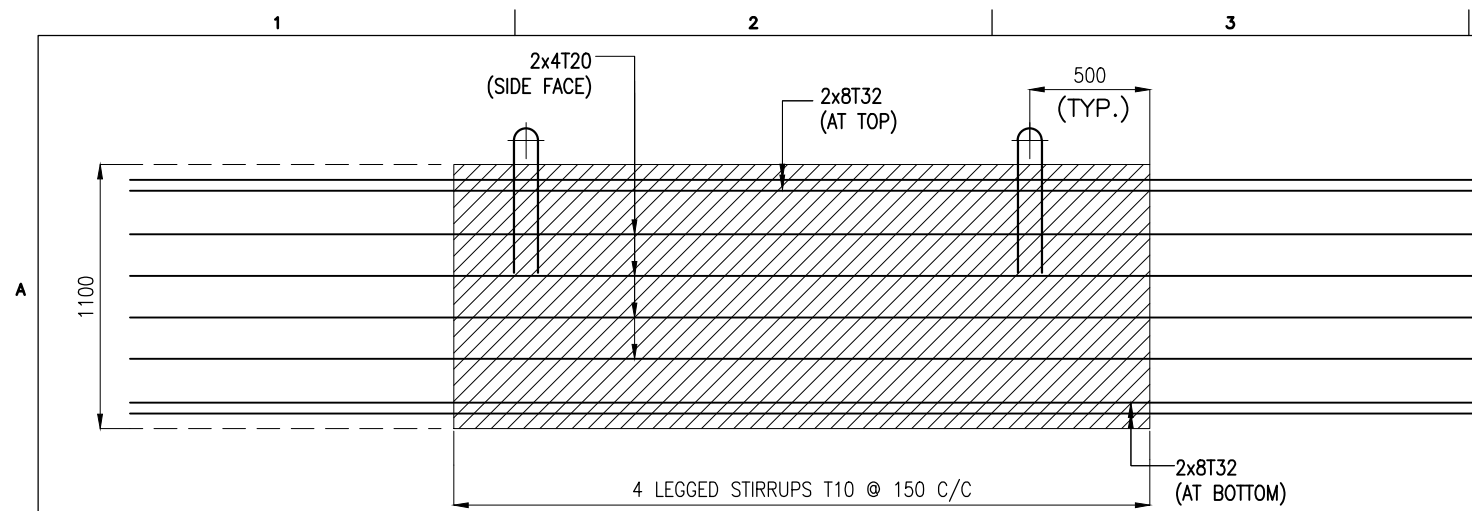


SECTION A
(SCALE 1:25)

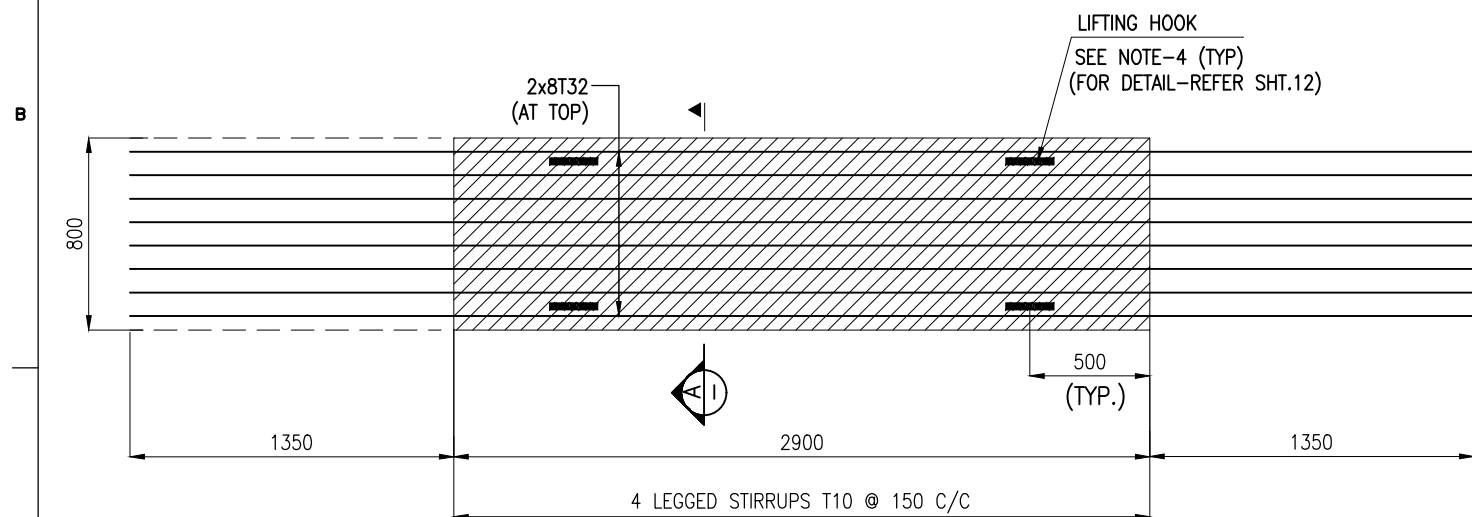
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. PRECAST BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.
5. THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION PRECAST BEAM. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

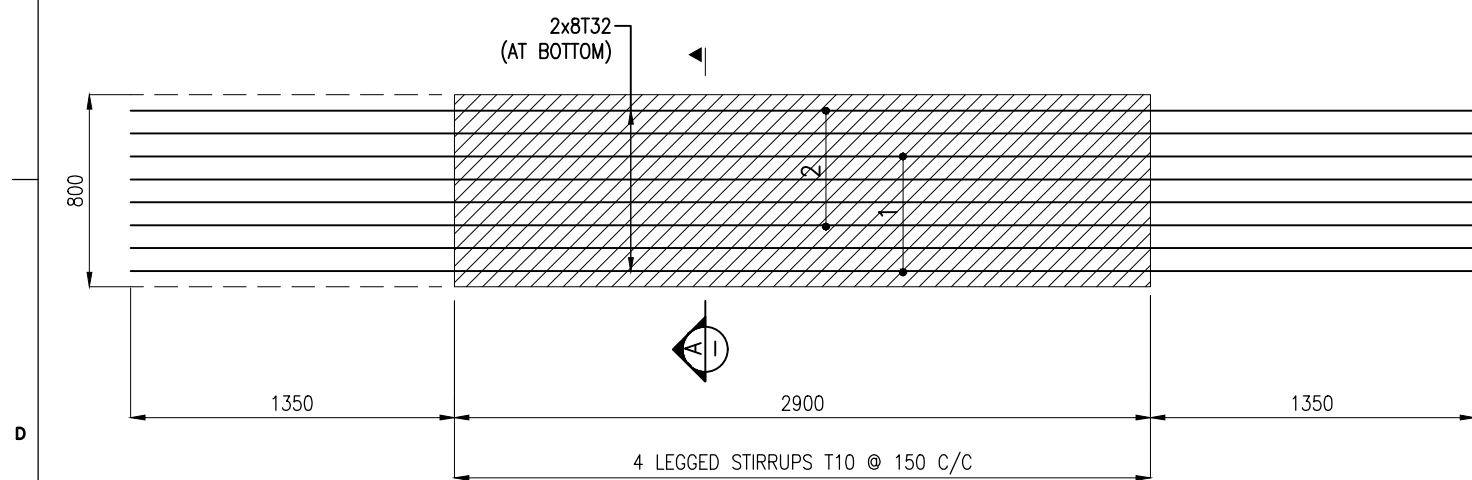
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-10		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF PRECAST BEAM
(SCALE 1:30)

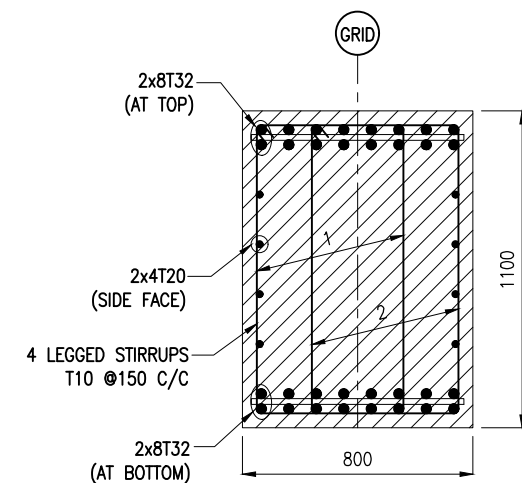


TOP VIEW OF PRECAST BEAM
(SCALE 1:30)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:30)

REINFORCEMENT DETAILS FOR BEAMS: TB2

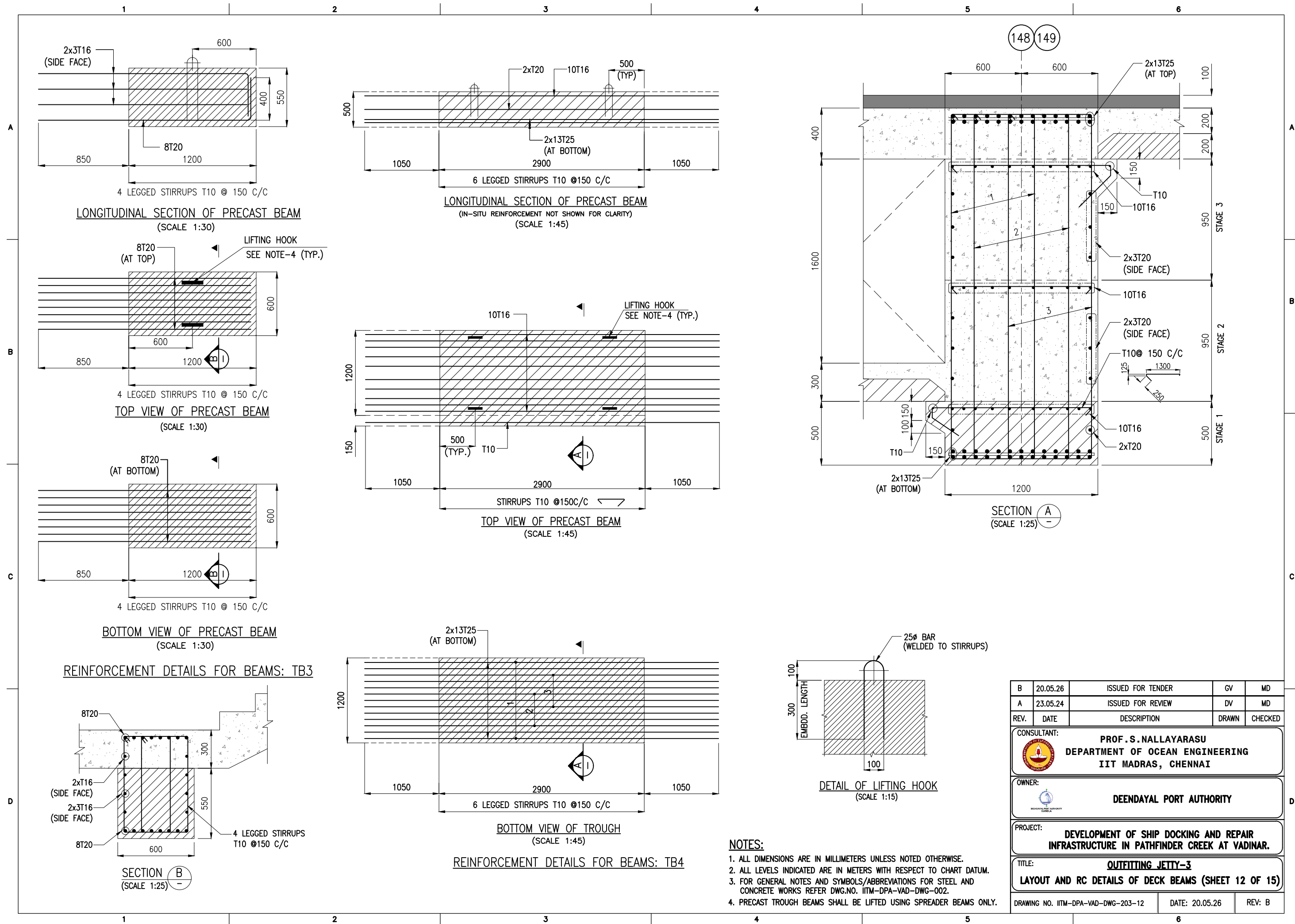


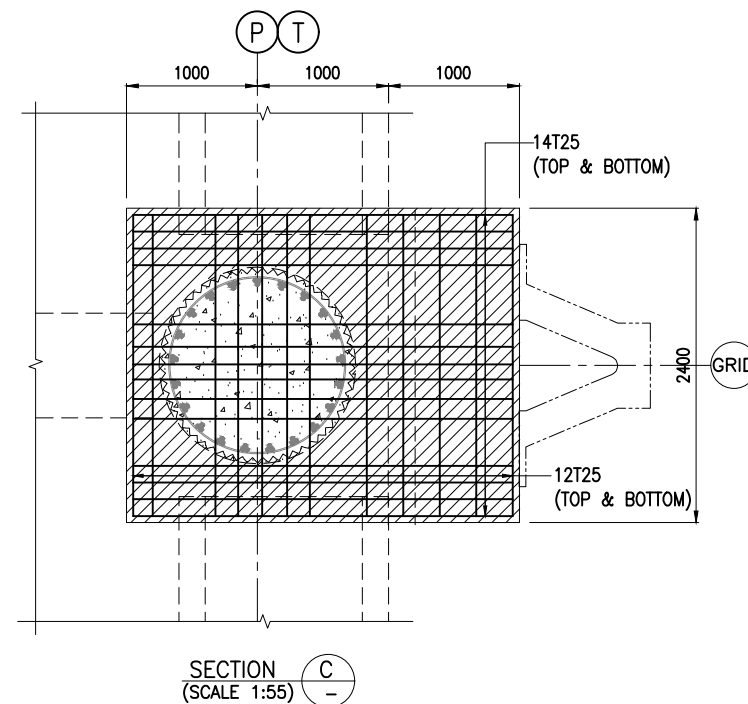
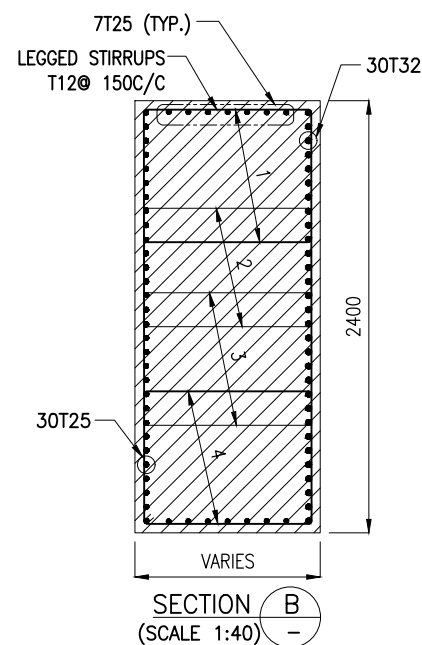
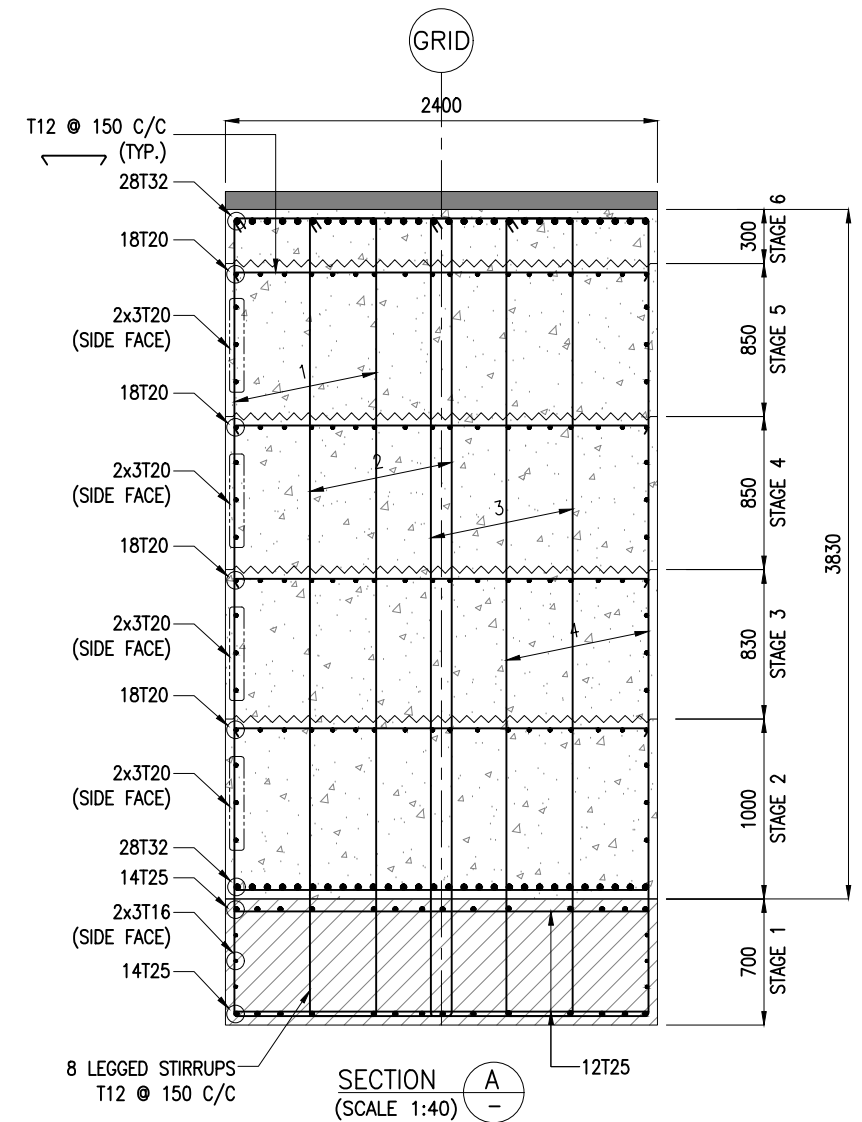
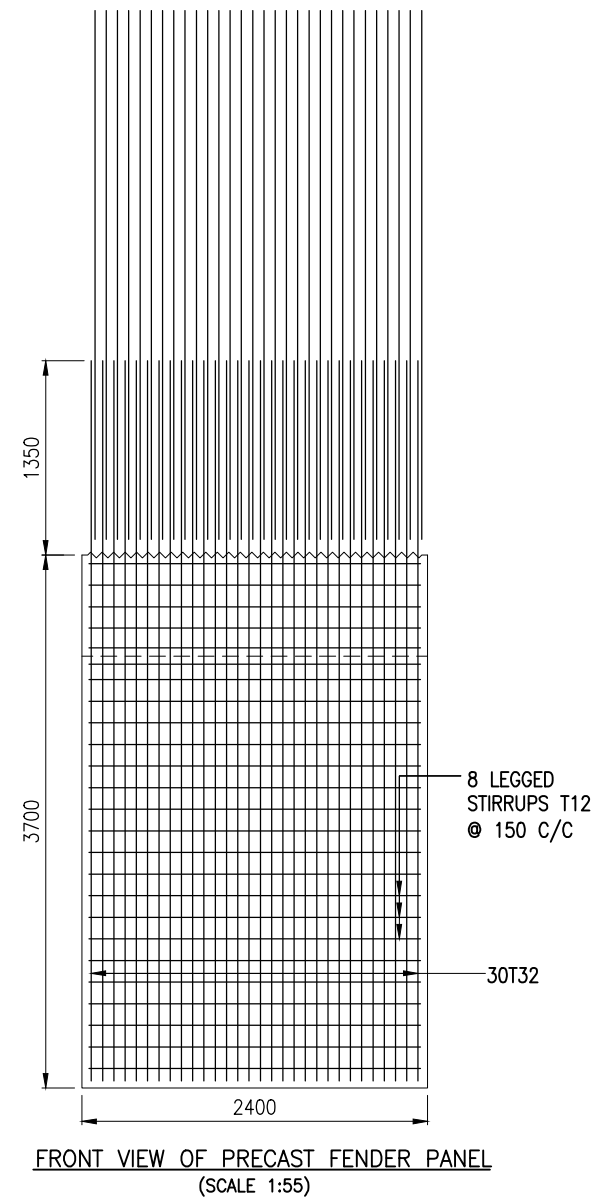
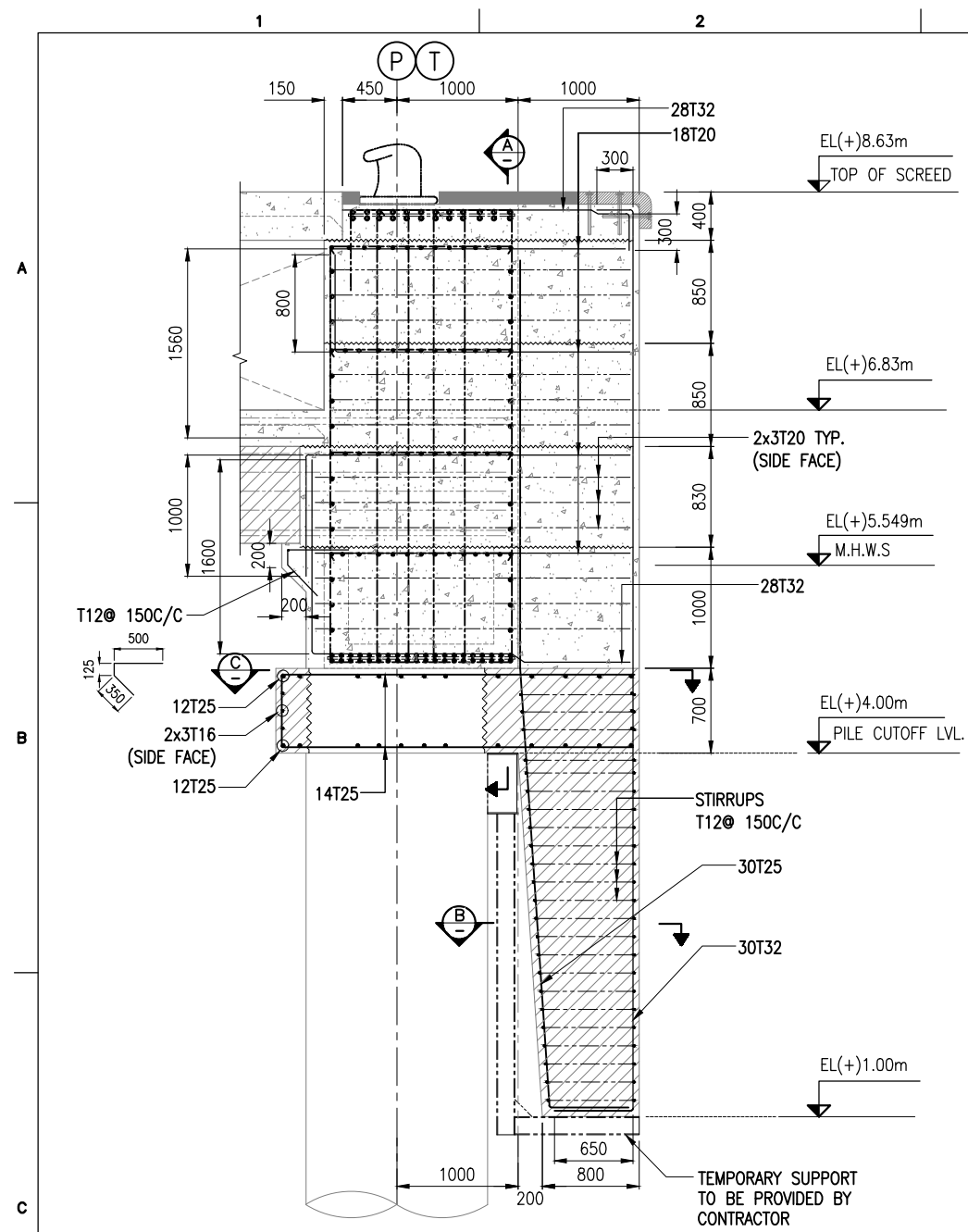
SECTION A
(SCALE 1:25)

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY. LIFTING HOOK DETAILS REFER DRAWING NO.IITM-DPA-VAD-DWG-203-04.



B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 11 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-11		DATE: 20.05.26		REV: B

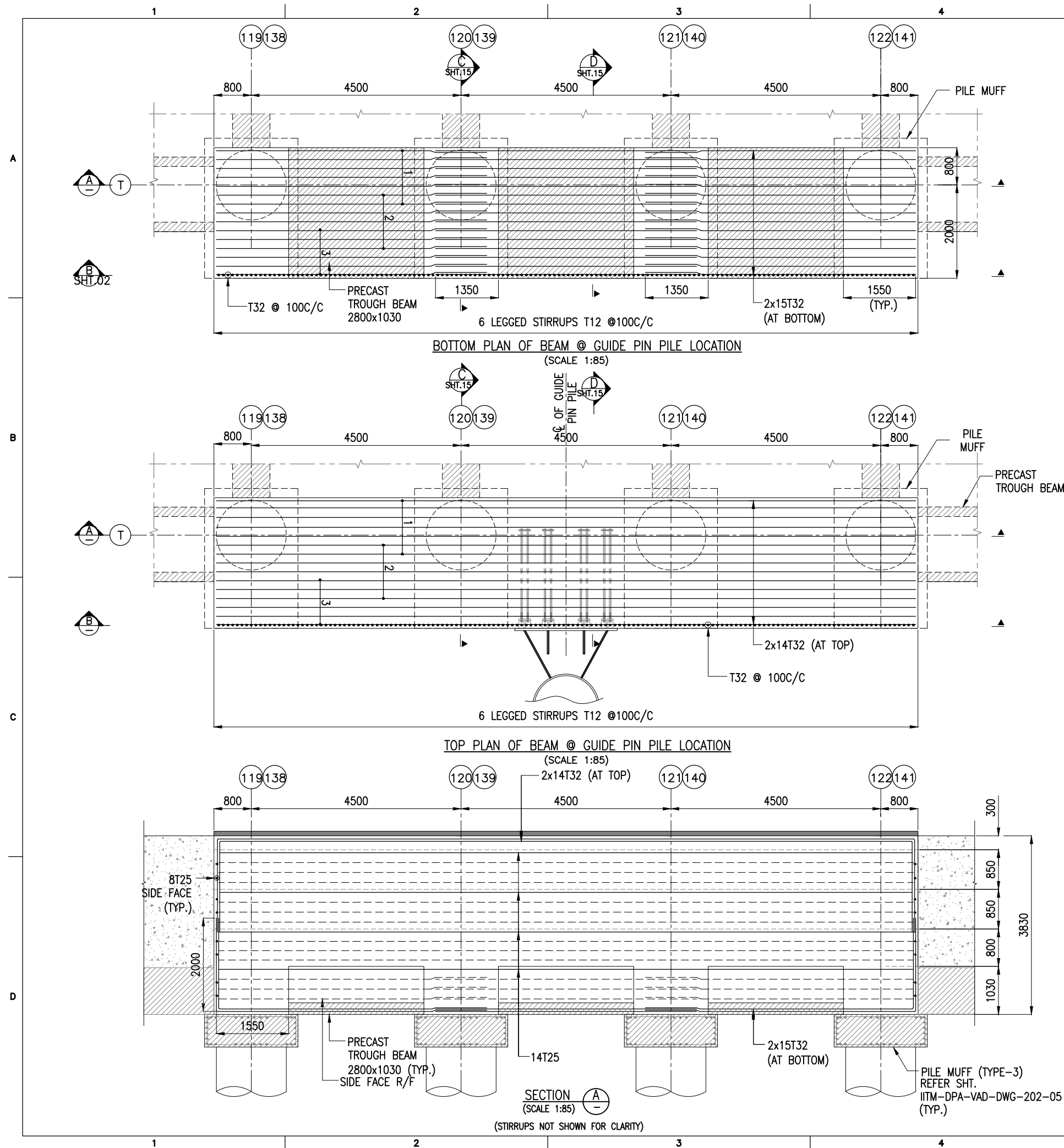




NOTES:

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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 13 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-13		DATE: 20.05.26		REV: B



NOTES:

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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED

CONSULTANT:	PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI
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OWNER:	DEENDAYAL PORT AUTHORITY
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PROJECT:	DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.
----------	--

TITLE:	OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 14 OF 15)
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DRAWING NO. IITM-DPA-VAD-DWG-203-14	DATE: 20.05.26	REV: B
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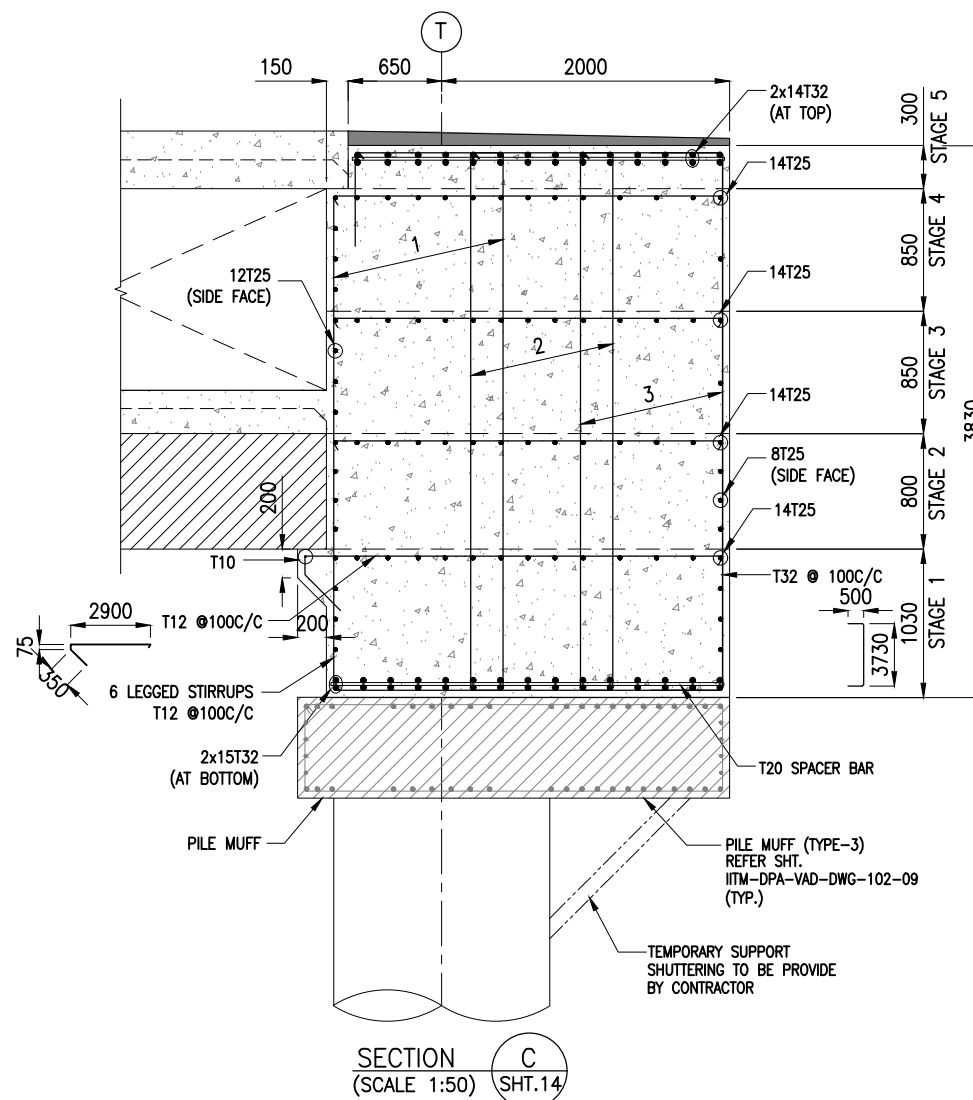
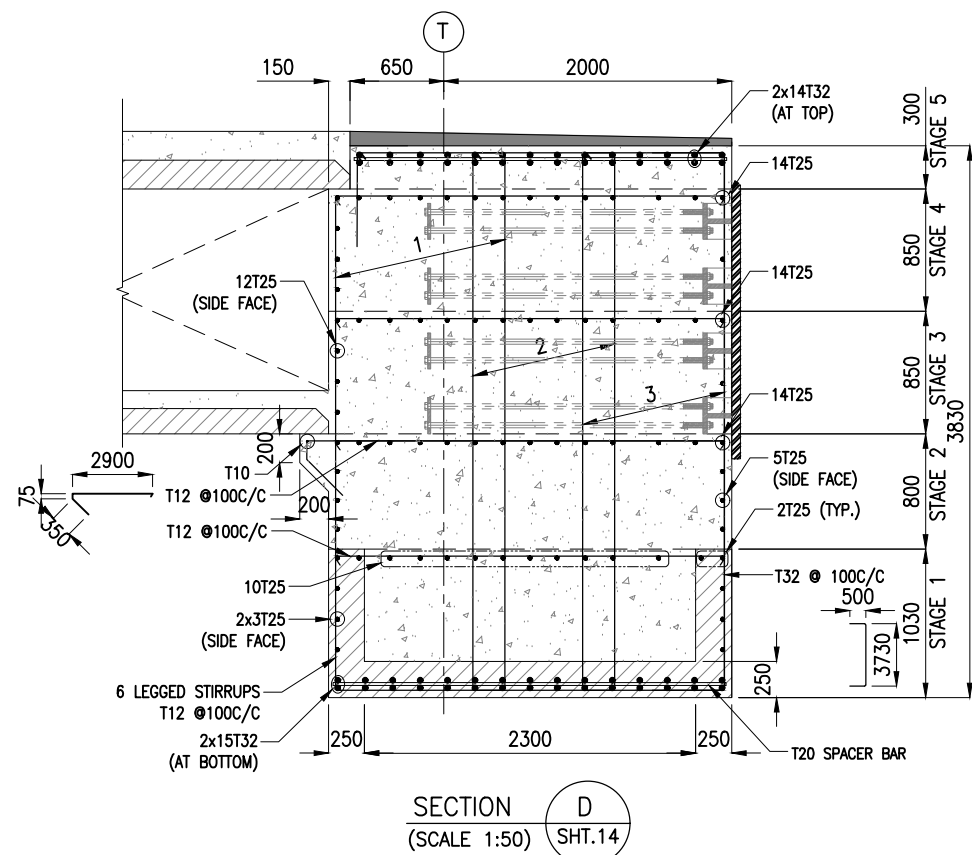
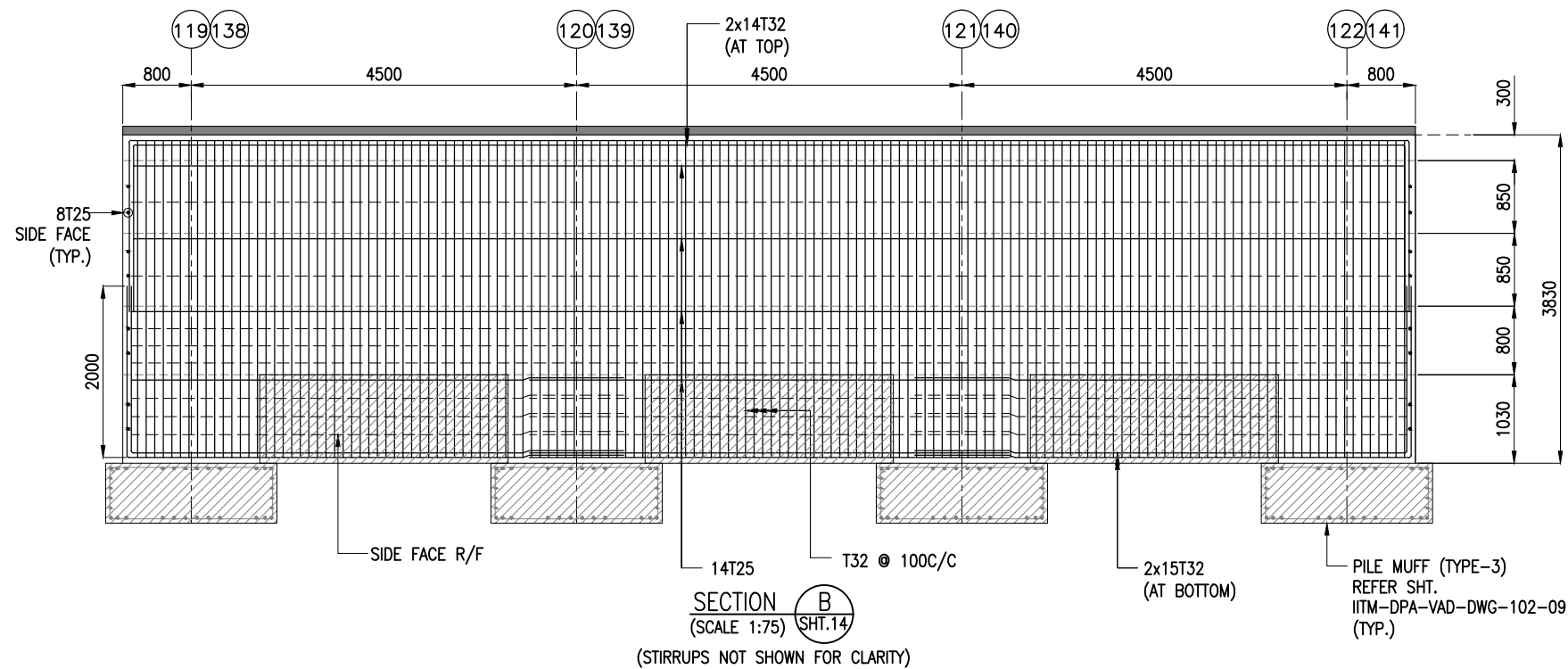
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A

B

C

D

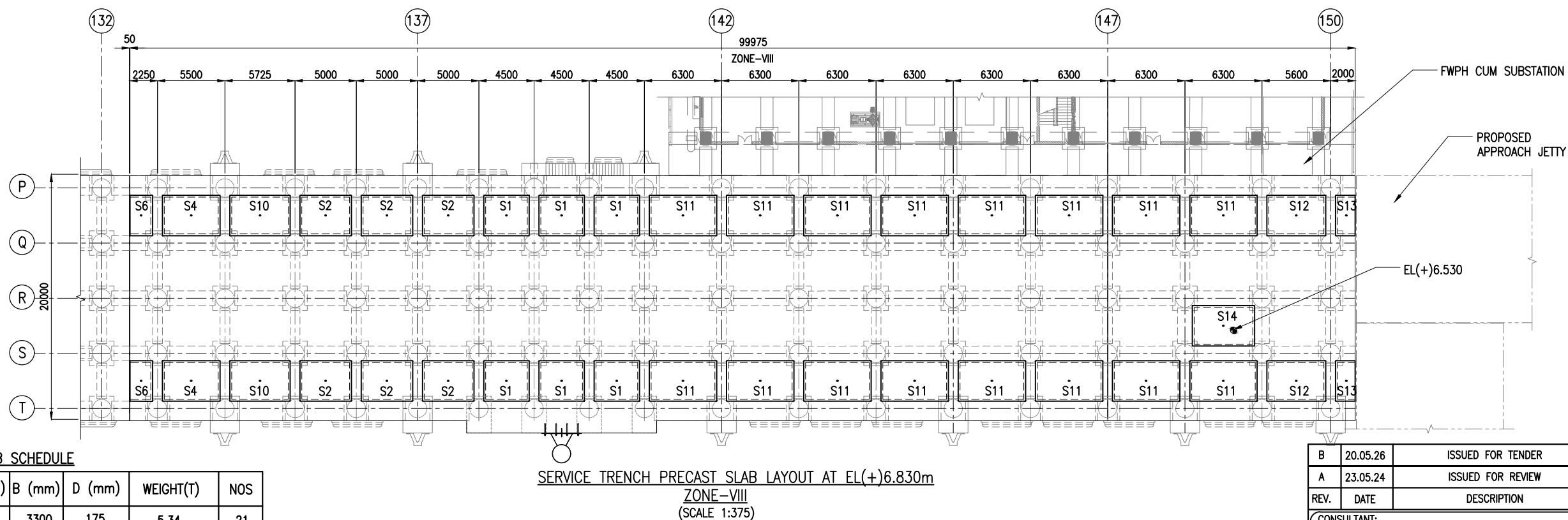
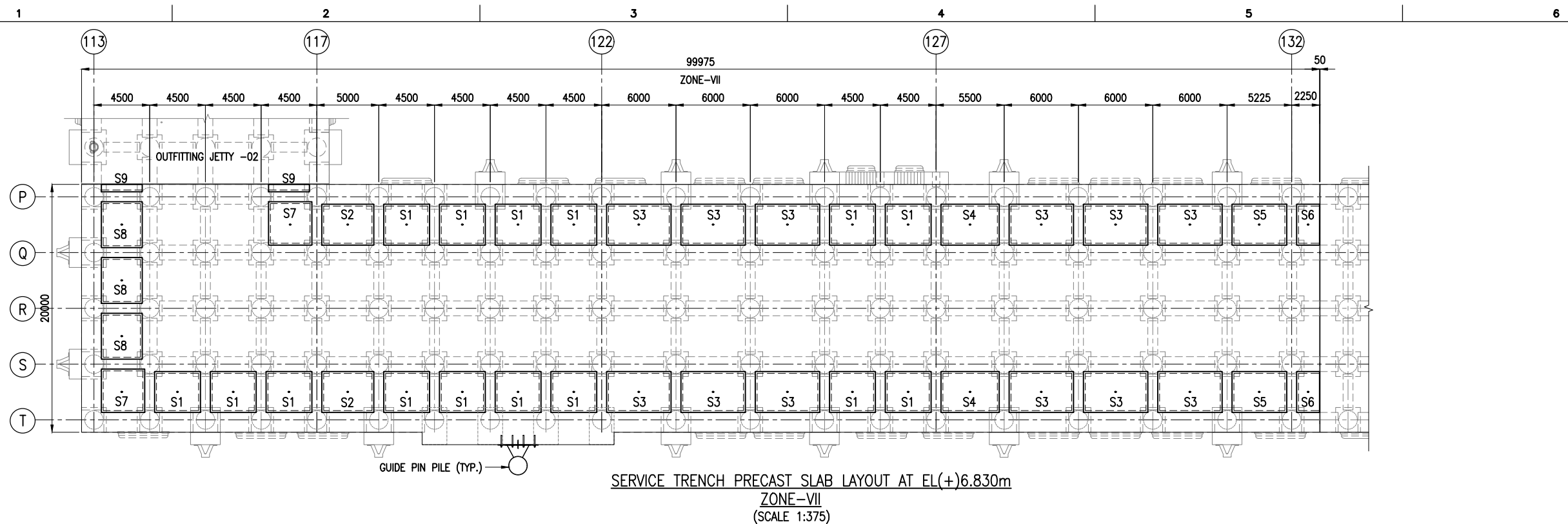


NOTES:

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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 15 OF 15)				
DRAWING NO. IITM-DPA-VAD-DWG-203-15		DATE: 20.05.26		REV: B

1 2 3 4 5 6





PRECAST SLAB SCHEDULE

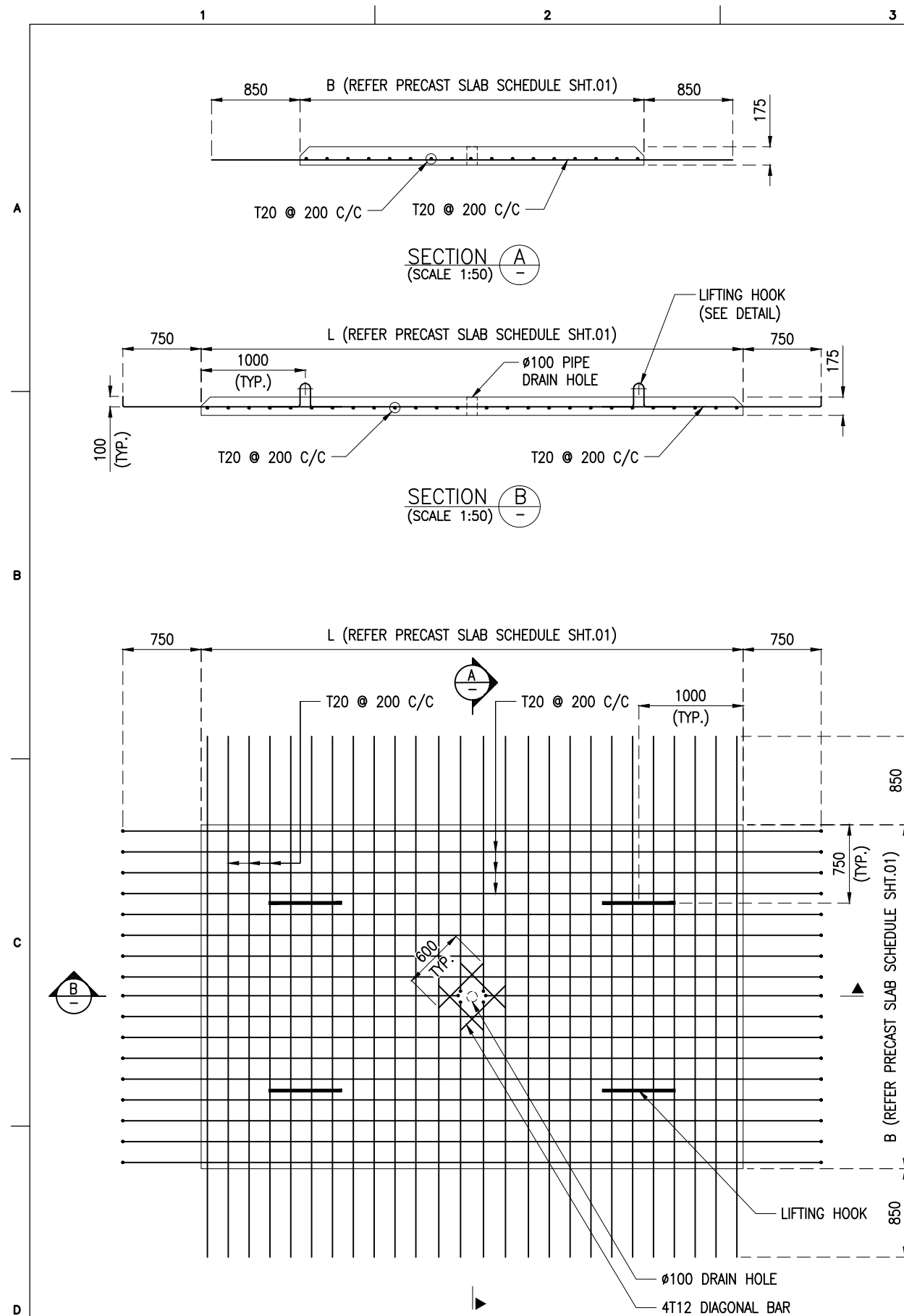
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S1	3700	3300	175	5.34	21
S2	4200	3300	175	6.06	8
S3	4800	3300	175	6.93	12
S4	4700	3300	175	6.78	4
S5	4425	3300	175	6.38	2
S6	1850	3300	175	2.67	4
S7	3500	3500	175	5.36	2
S8	3300	3700	175	5.34	3
S9	3300	600	175	0.86	2
S10	4925	3300	175	7.11	2

S11	5500	3300	175	7.94	16
S12	4800	3300	175	6.93	2
S13	1600	3300	175	2.31	2
S14	5100	3300	175	7.36	1

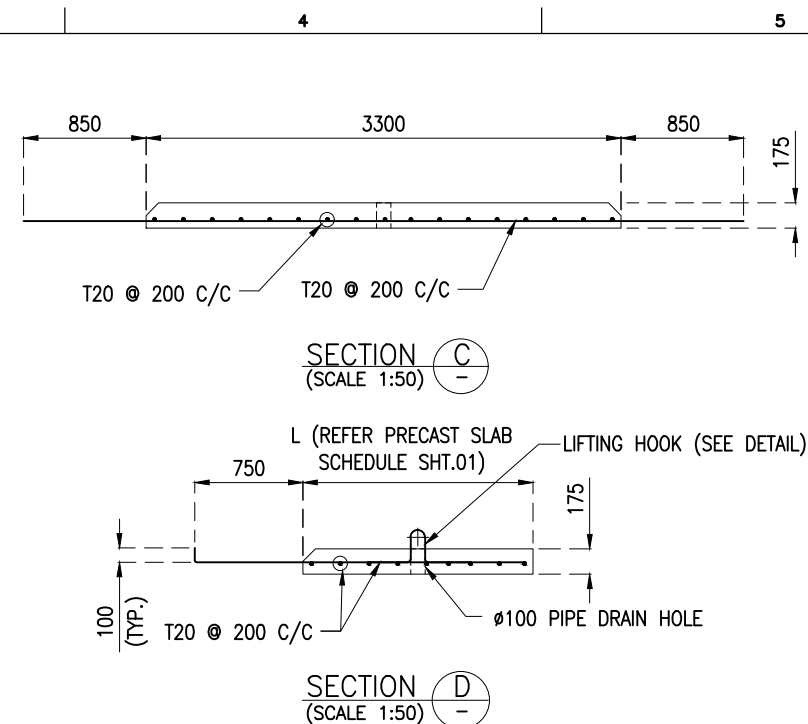
NOTES:

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2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

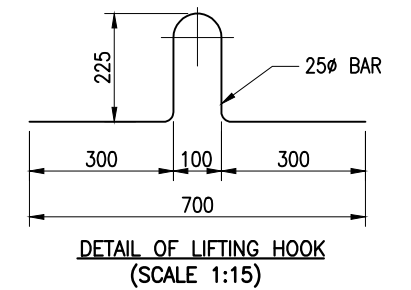
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 1 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-204-01			DATE: 20.05.26	REV: B



DETAILS OF PRECAST SLAB S1 TO S5 & S10/S11/S12/S14
(SCALE 1:50)





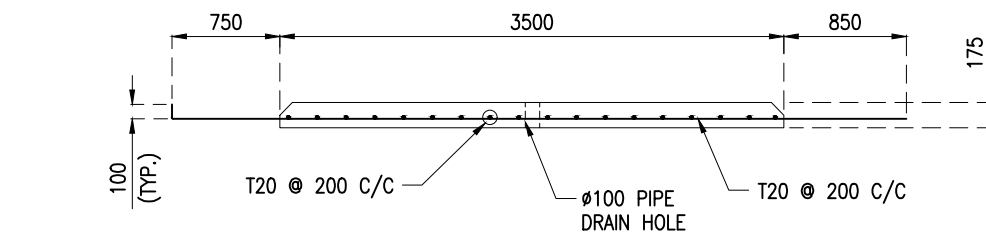
DETAILS OF PRECAST SLAB S6/S13
(SCALE 1:50)



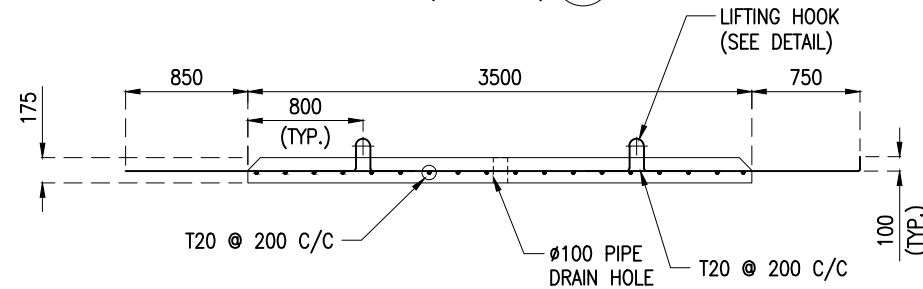
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. LIFTING OF THE PRECAST SLABS SHALL BE CARRIED OUT USING SPREADER FRAME.

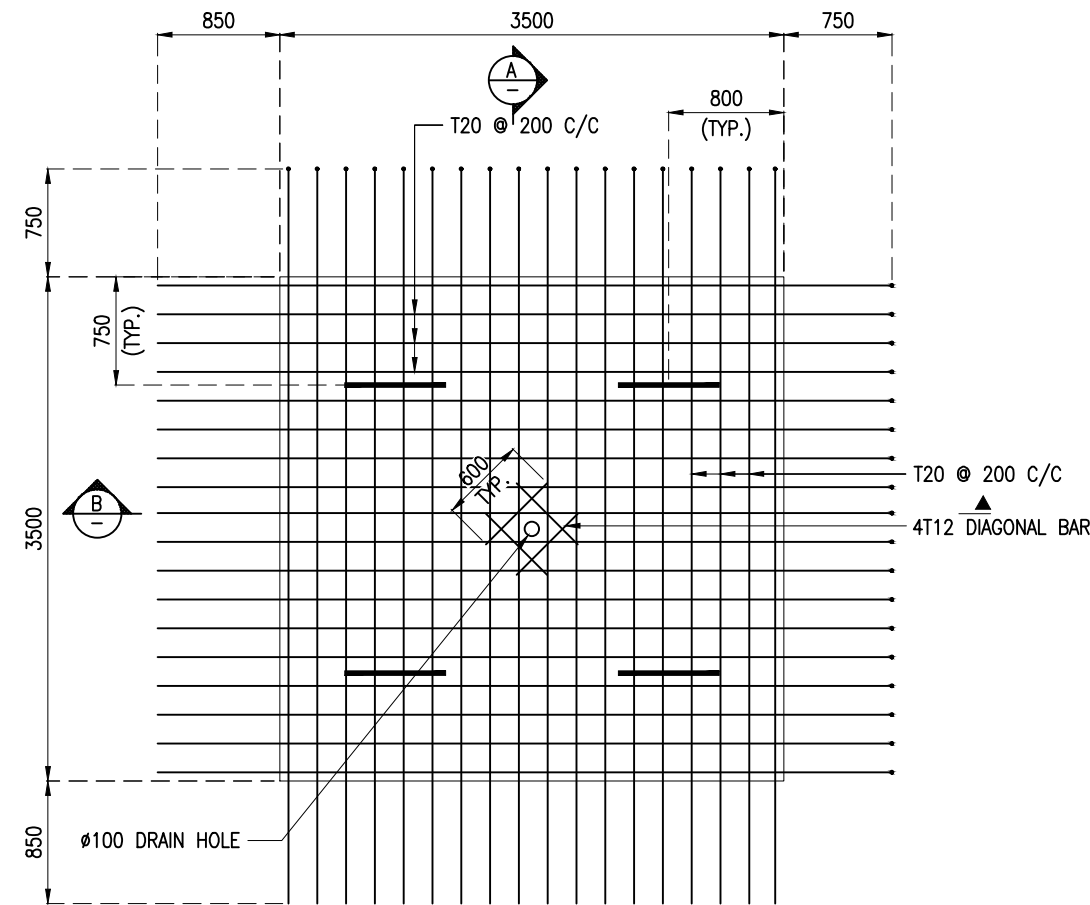
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 2 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-204-02		DATE: 20.05.26		REV: B



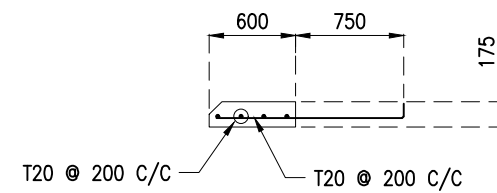
SECTION A
(SCALE 1:50)



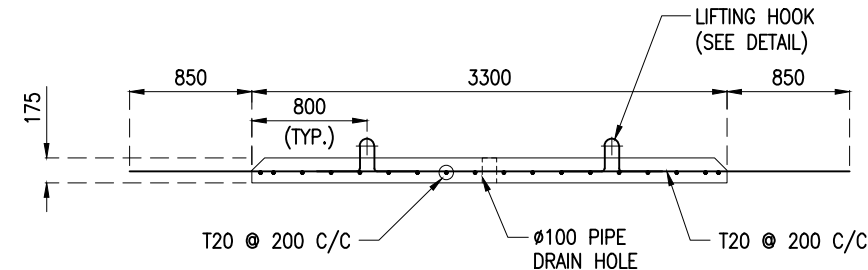
SECTION B
(SCALE 1:50)



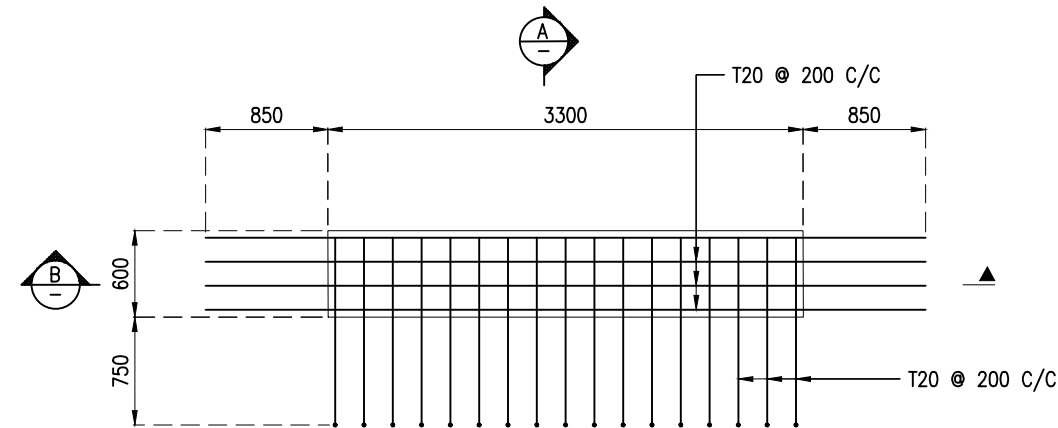
DETAILS OF PRECAST SLAB S7
(SCALE 1:50)



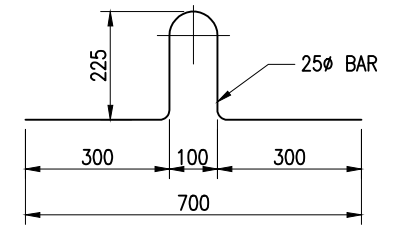
SECTION A
(SCALE 1:50)



SECTION B
(SCALE 1:50)



DETAILS OF PRECAST SLAB S9
(SCALE 1:50)




DETAIL OF LIFTING HOOK
(SCALE 1:15)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. LIFTING OF THE PRECAST SLABS SHALL BE CARRIED OUT USING SPREADER FRAME.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED

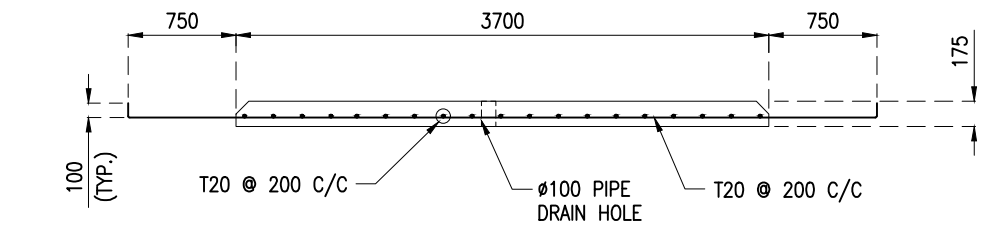
CONSULTANT:	 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI
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OWNER:	 DEENDAYAL PORT AUTHORITY
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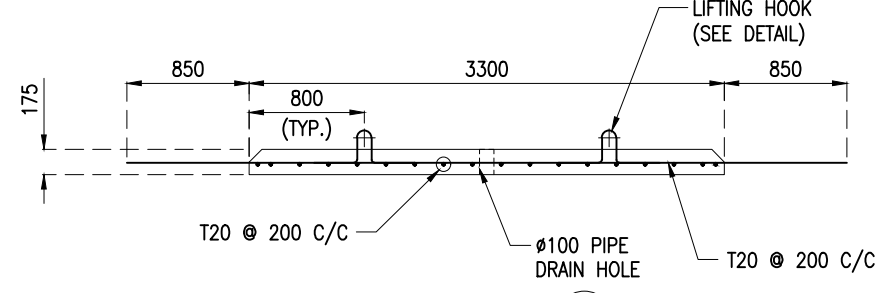
PROJECT:	DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.
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TITLE:	OUTFITTING JETTY-3 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 3 OF 6)
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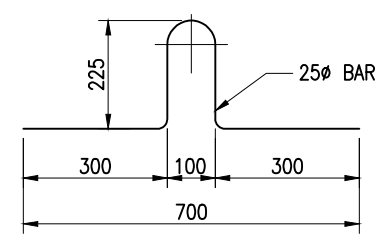
DRAWING NO. IITM-DPA-VAD-DWG-204-03	DATE: 20.05.26	REV: B
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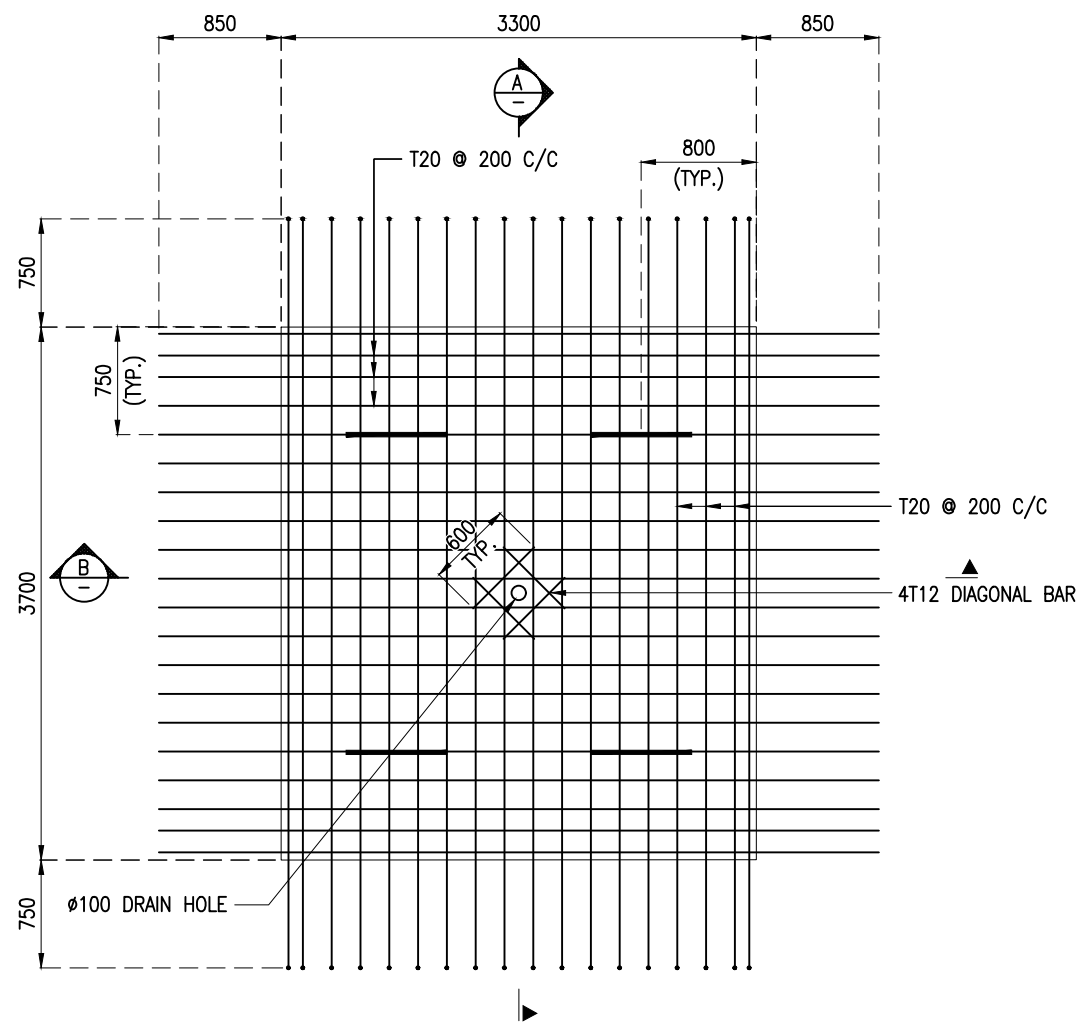
SECTION A
(SCALE 1:50)



SECTION B
(SCALE 1:50)



DETAIL OF LIFTING HOOK
(SCALE 1:15)




DETAILS OF PRECAST SLAB S8
(SCALE 1:50)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. LIFTING OF THE PRECAST SLABS SHALL BE CARRIED OUT USING SPREADER FRAME.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED

CONSULTANT:

 **PROF.S.NALLAYARASU**
DEPARTMENT OF OCEAN ENGINEERING
IIT MADRAS, CHENNAI

OWNER:

 **DEENDAYAL PORT AUTHORITY**

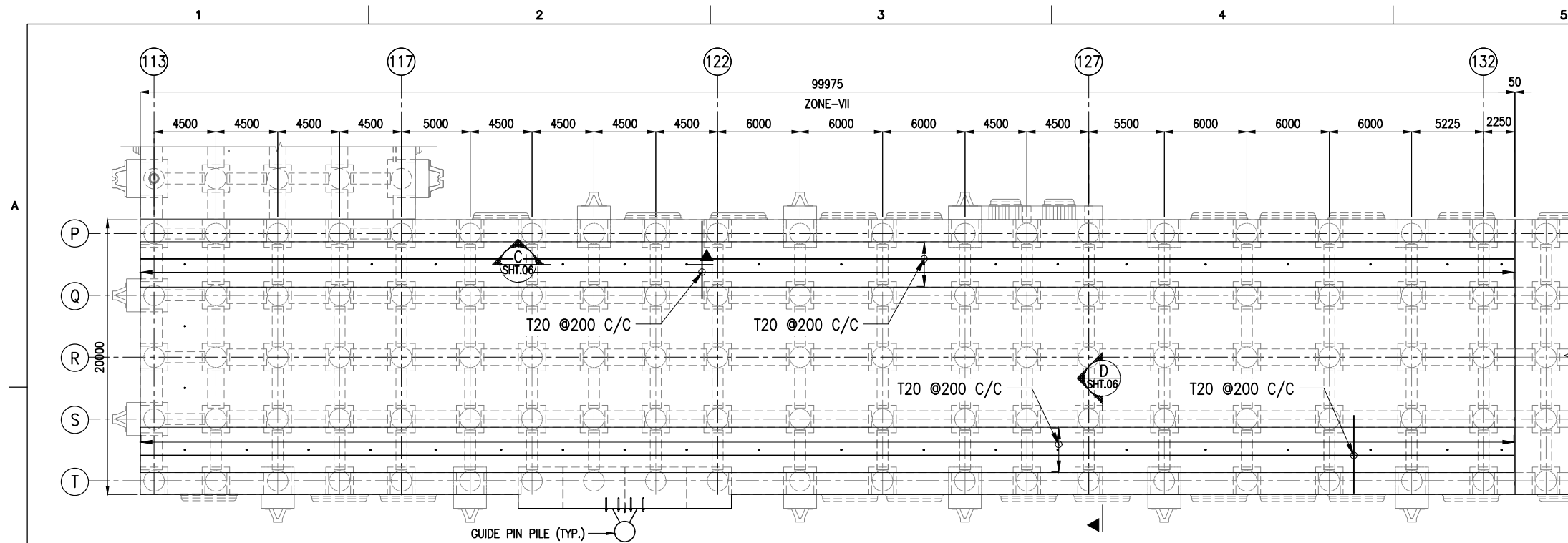
PROJECT:

**DEVELOPMENT OF SHIP DOCKING AND REPAIR
INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.**

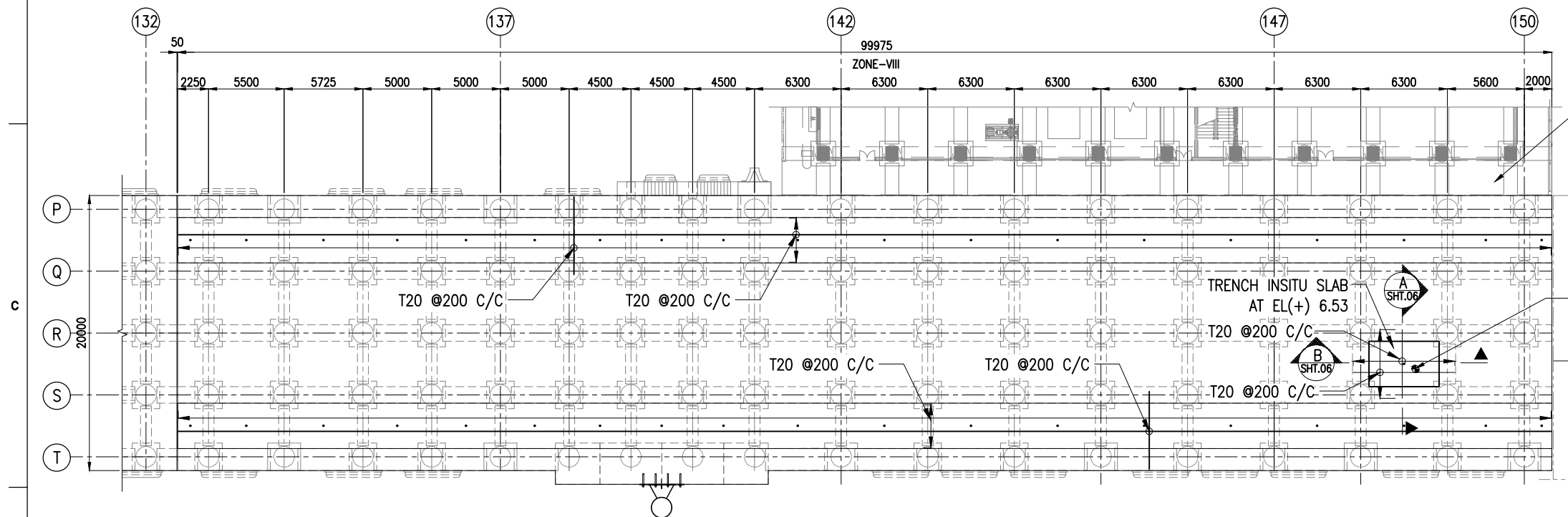
TITLE:

**OUTFITTING JETTY-3
SERVICE TRENCH SLAB LAYOUT AND RC DETAILS
(SHEET 4 OF 6)**

DRAWING NO. IITM-DPA-VAD-DWG-204-04	DATE: 20.05.26	REV: B
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SERVICE TRENCH INSITU SLAB LAYOUT AT EL(+).6.830m
ZONE-VII
(SCALE 1:375)

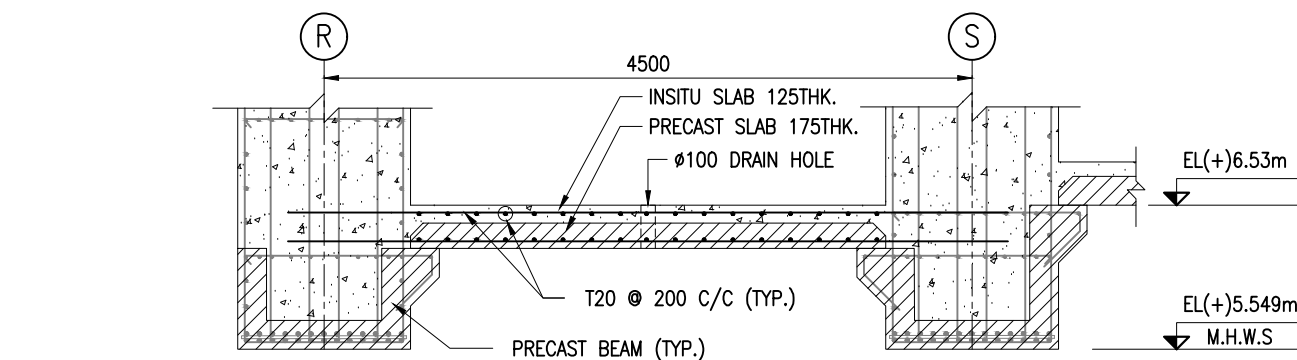


SERVICE TRENCH INSITU SLAB LAYOUT AT EL(+).6.830m
ZONE-VIII
(SCALE 1:375)

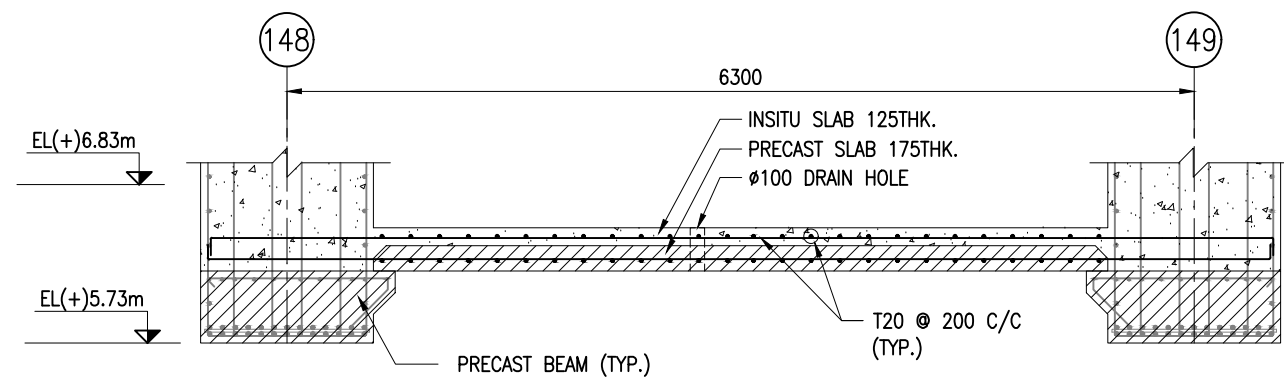
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

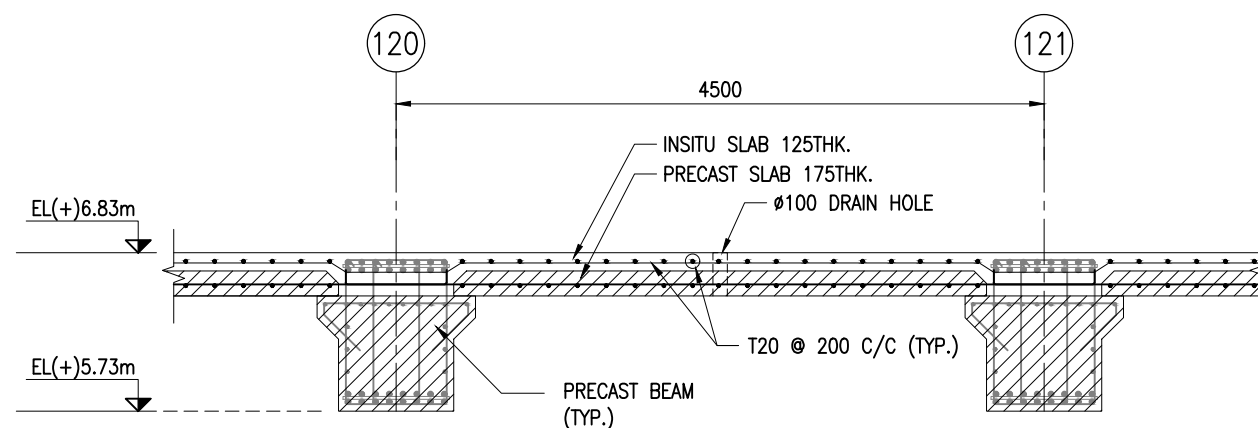
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 5 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-204-05			DATE: 20.05.26	REV: B



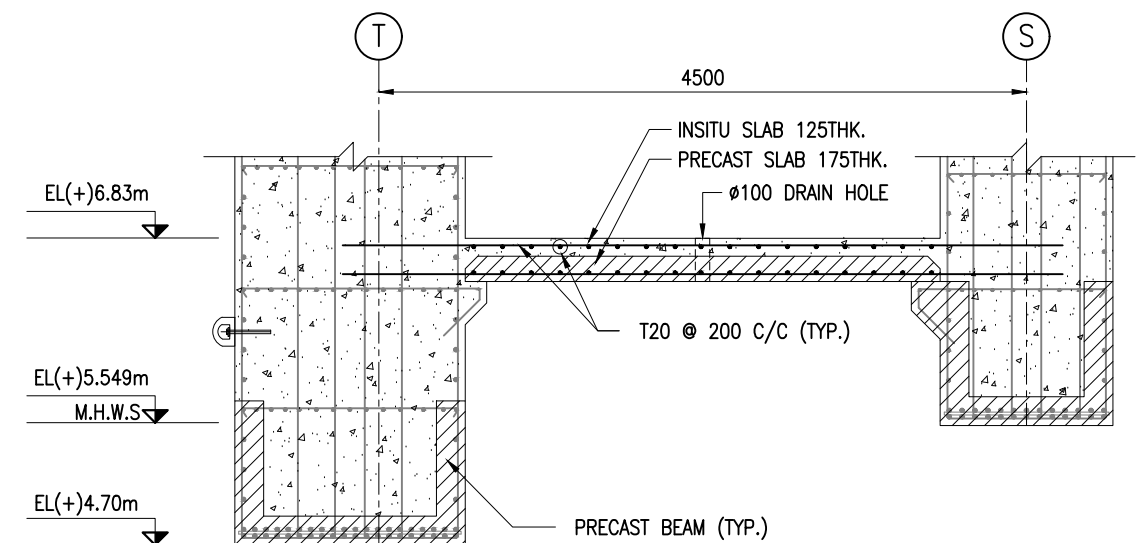
SECTION A
SCALE 1:50
SHT.05



SECTION B
SCALE 1:50
SHT.05



SECTION C
SCALE 1:50
SHT.05

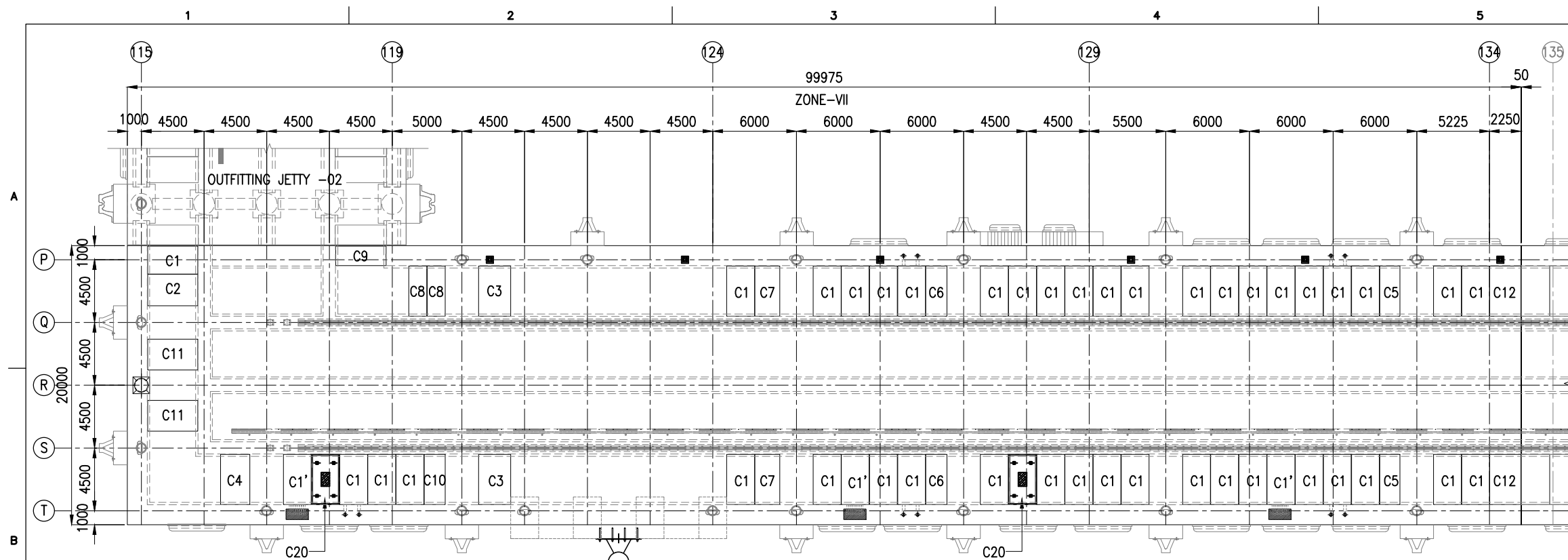


SECTION D
SCALE 1:50
SHT.05

NOTES:

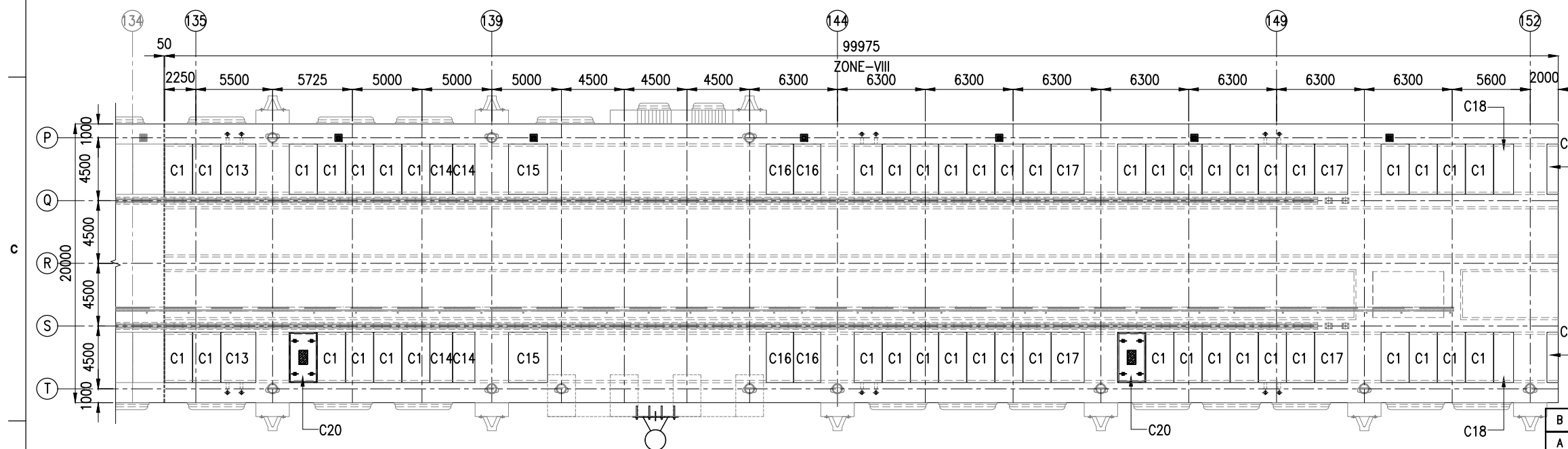
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 6 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-204-06			DATE: 20.05.26	REV: B



REMOVABLE COVER SLAB LAYOUT AT EL(+8.63m

ZONE-VII
(SCALE 1:350)



REMOVABLE COVER SLAB LAYOUT AT EL(+8.63m

ZONE-VIII
(SCALE 1:350)


REMOVABLE COVER SLAB SCHEDULE

TYPE	L (mm)	B (mm)	D (mm)	WEIGHT(T)	NOS
C1	2000	3600	400	7.20	89
C1'	2000	3600	400	7.20	3
C2	2250	3600	400	8.10	1
C3	2300	3600	400	8.27	2
C4	2100	3600	400	7.55	1
C5	1460	3600	400	5.25	2
C6	1520	3600	400	5.47	2
C7	1780	3600	400	6.40	2
C8	1295	3600	400	4.65	2
C9	1400	3600	400	5.05	1
C10	1510	3600	400	5.42	1
C11	2210	3600	400	7.95	2
C12	2235	3600	400	8.05	2
C13	2510	3600	400	9.02	2
C14	1600	3600	400	5.75	4
C15	2800	3600	400	10.07	2
C16	1940	3600	400	7.00	4
C17	2360	3600	400	8.50	4
C18	1420	3600	400	5.10	2
C19	800	3600	400	2.87	2
C20	2000	3600	400	7.20	4

NOTES:

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2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED

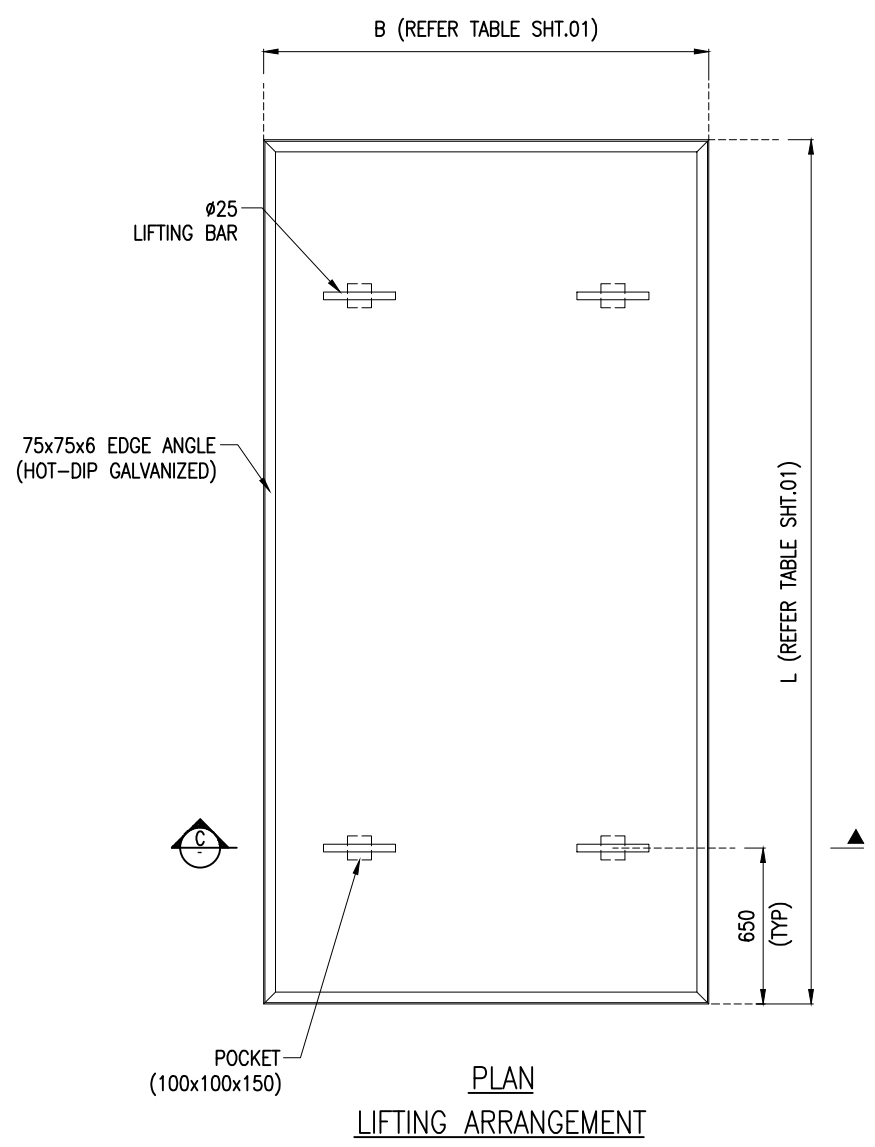
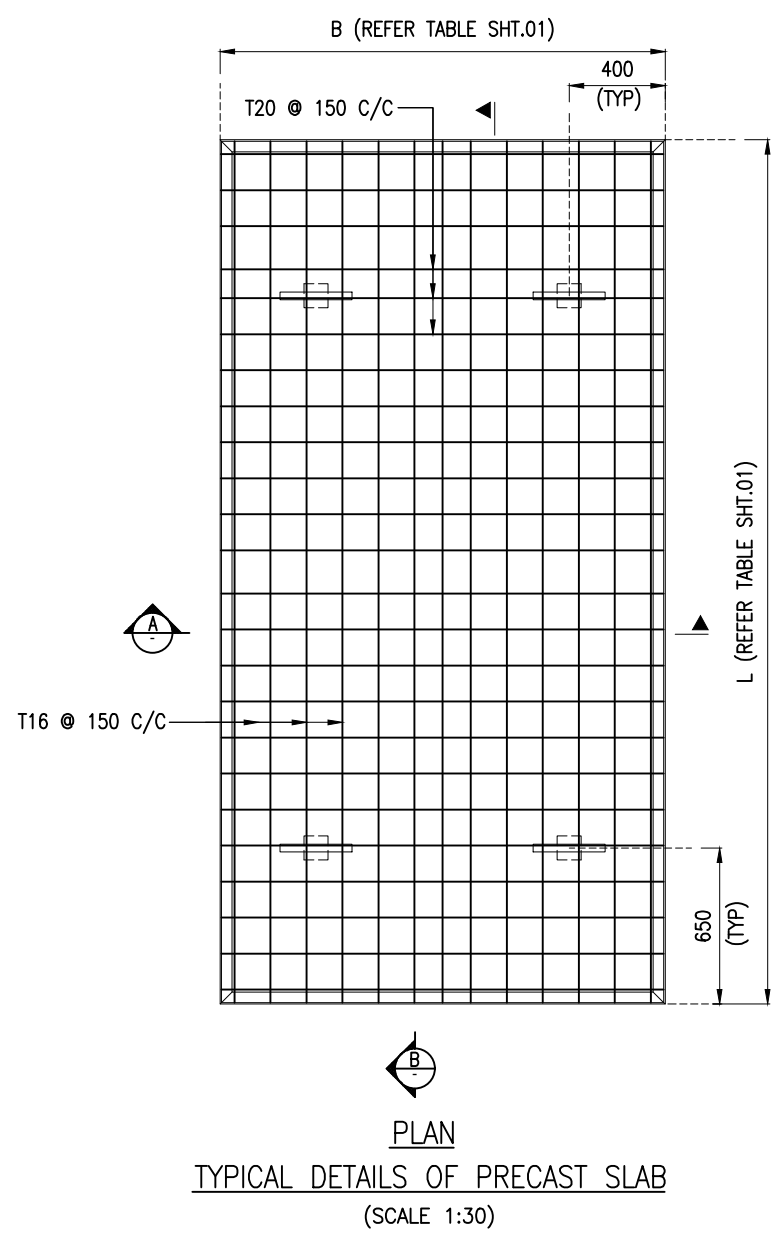
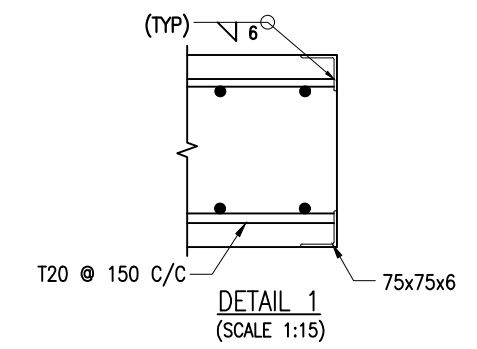
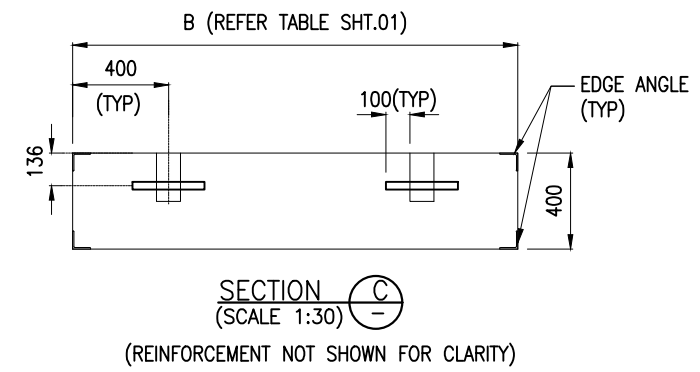
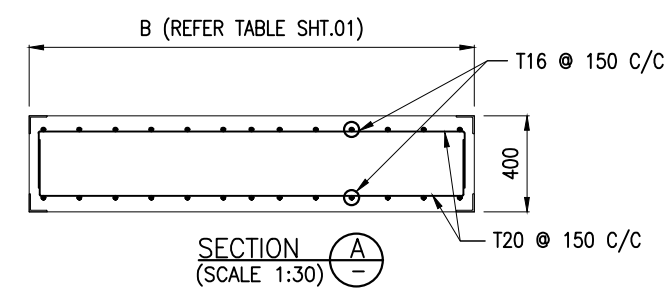
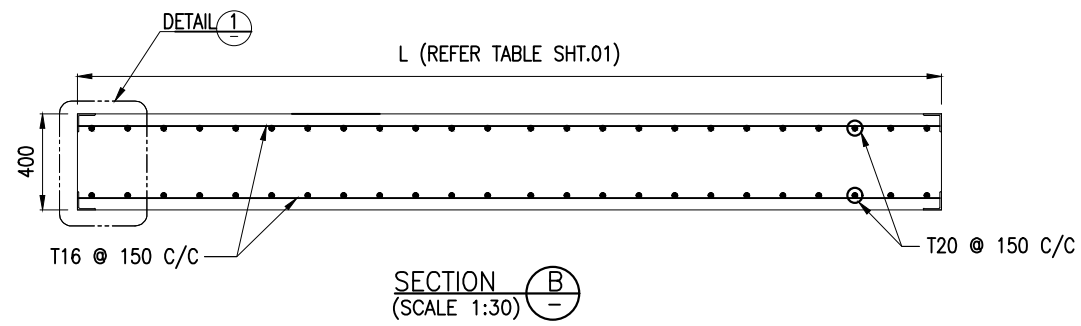
CONSULTANT:	 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI
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OWNER:	 DEENDAYAL PORT AUTHORITY
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PROJECT:	DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.
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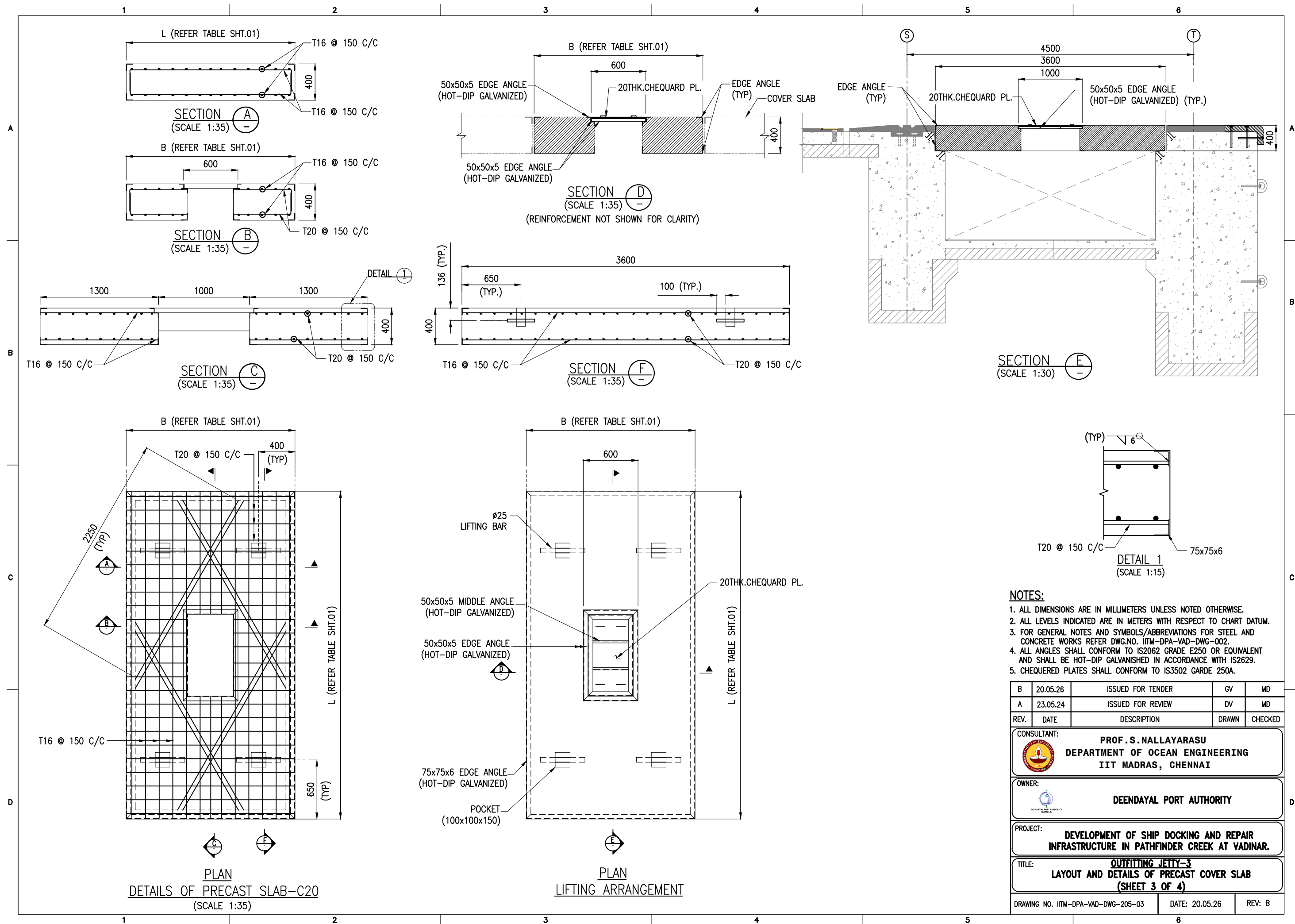
TITLE:	OUTFITTING JETTY-3 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 1 OF 4)
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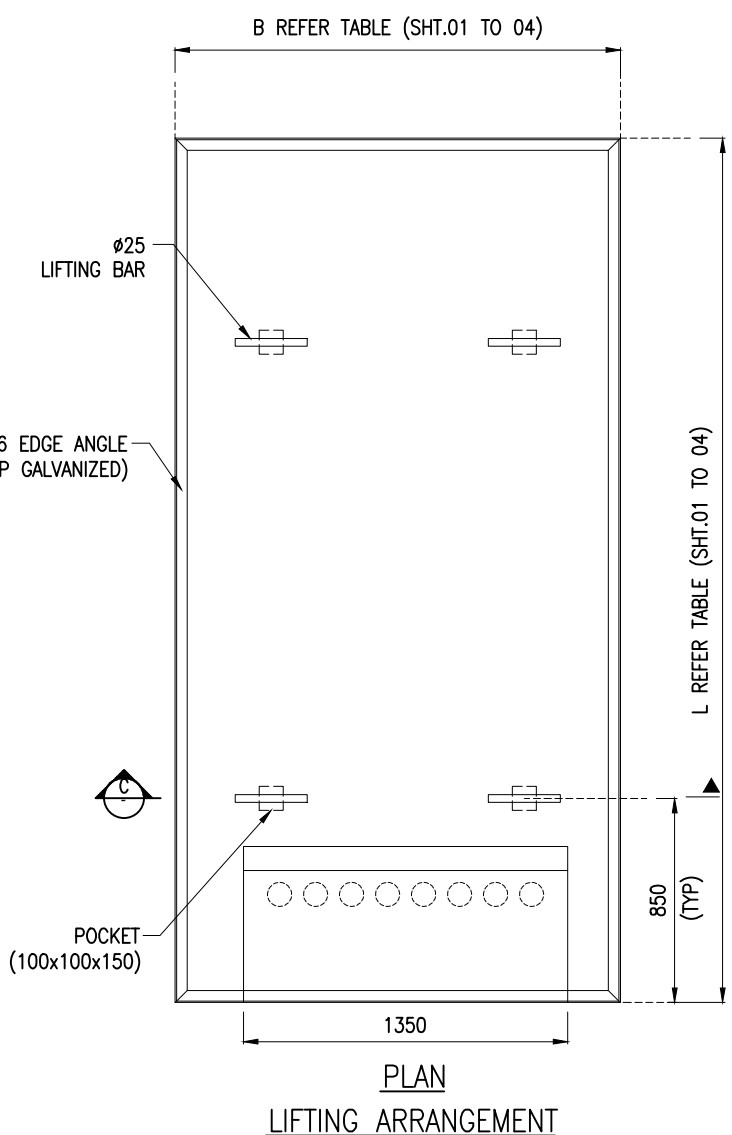
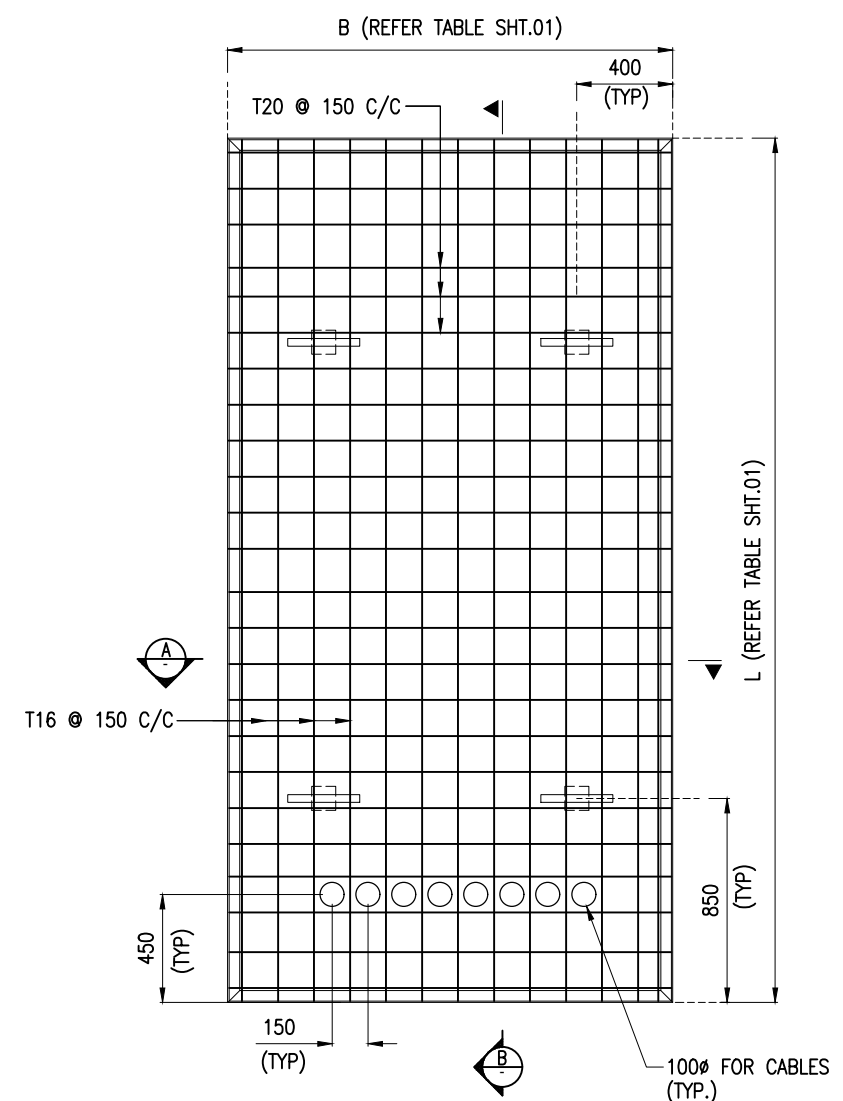
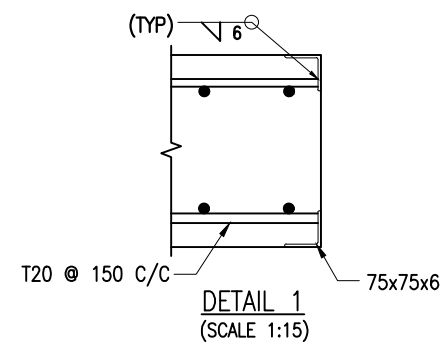
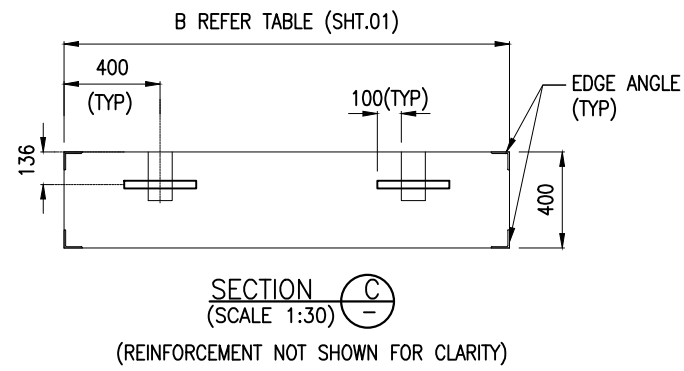
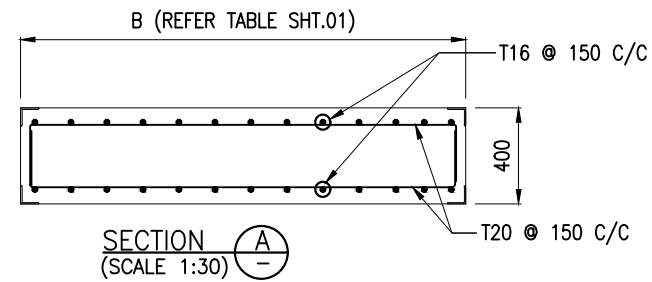
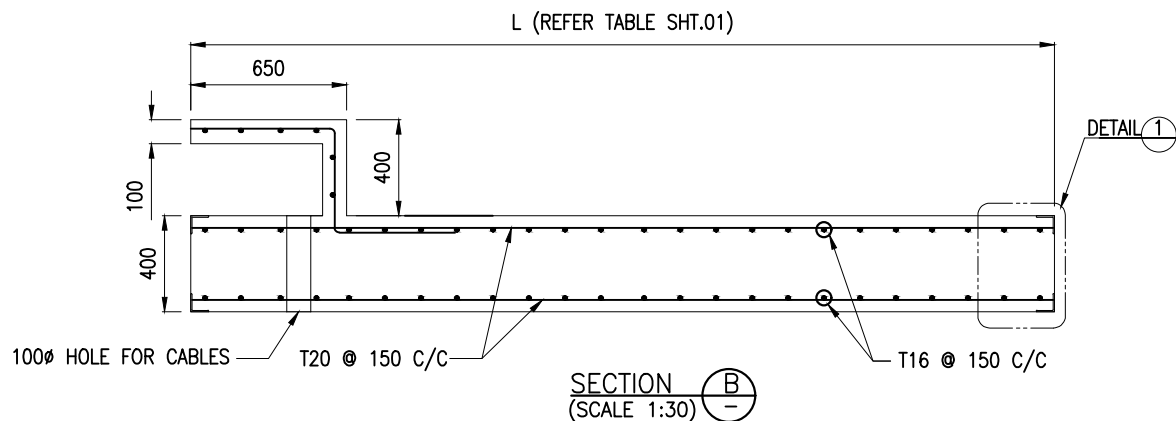
DRAWING NO.	IITM-DPA-VAD-DWG-205-01	DATE:	20.05.26	REV:	B
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- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 2 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-205-02			DATE: 20.05.26	REV: B

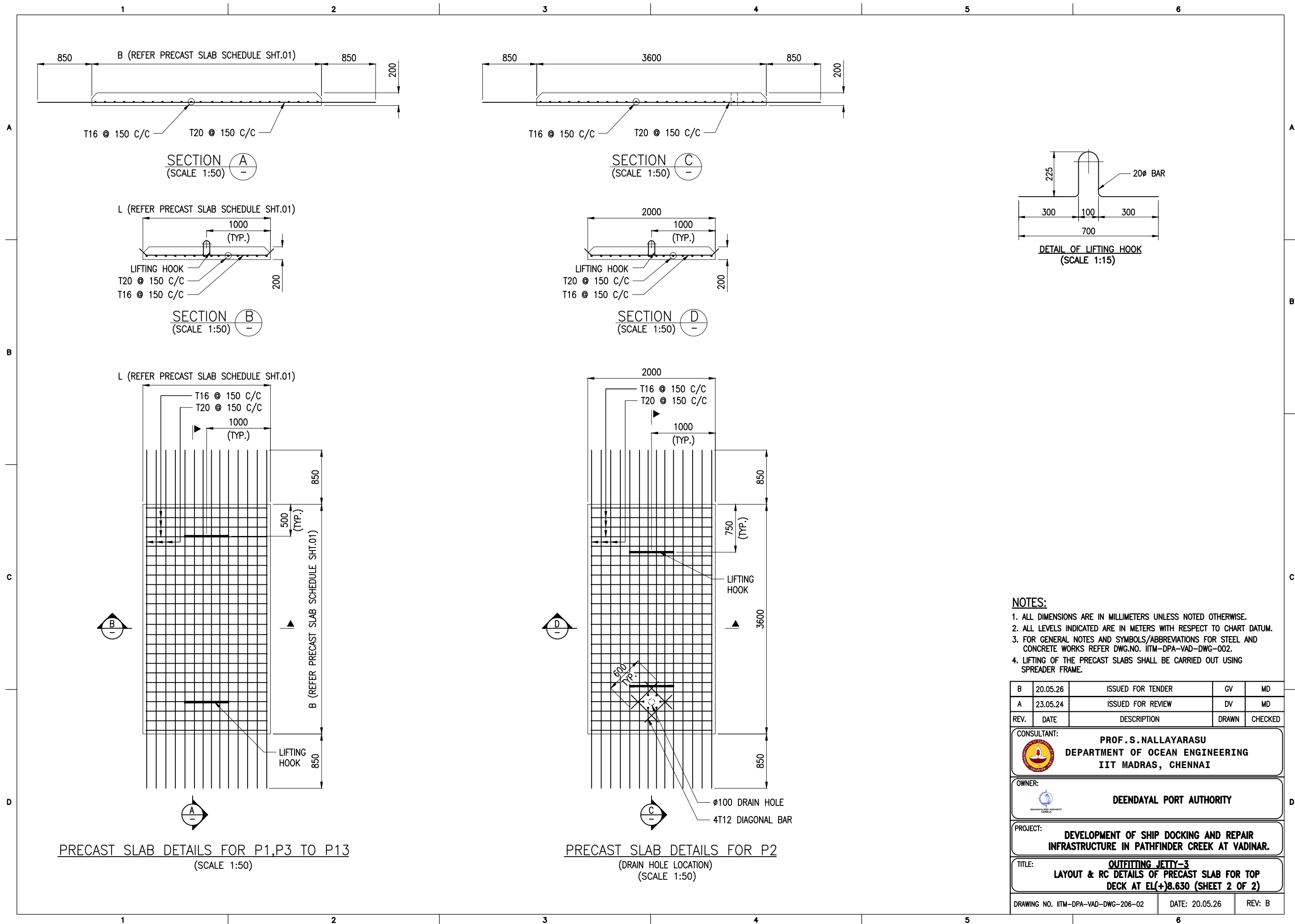


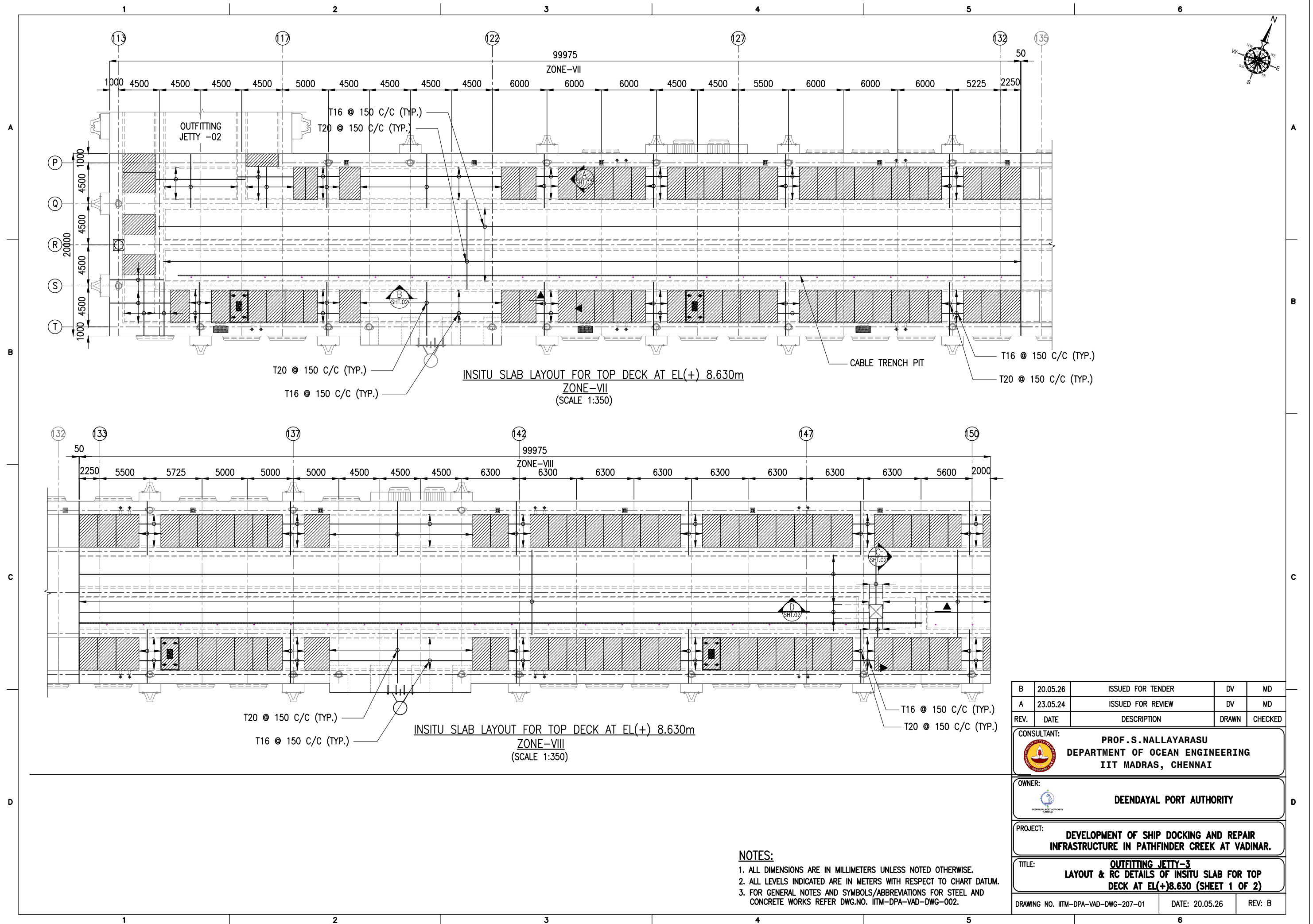


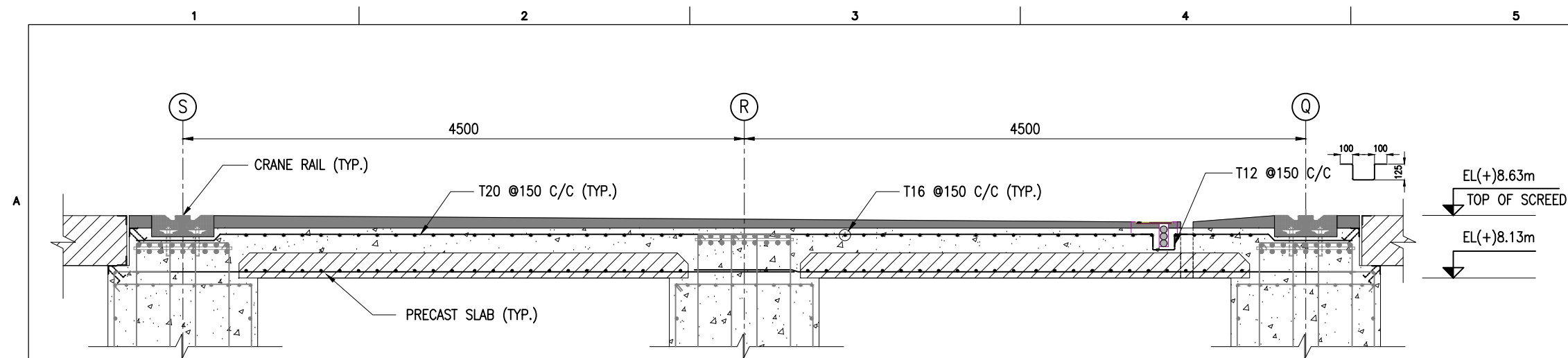
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

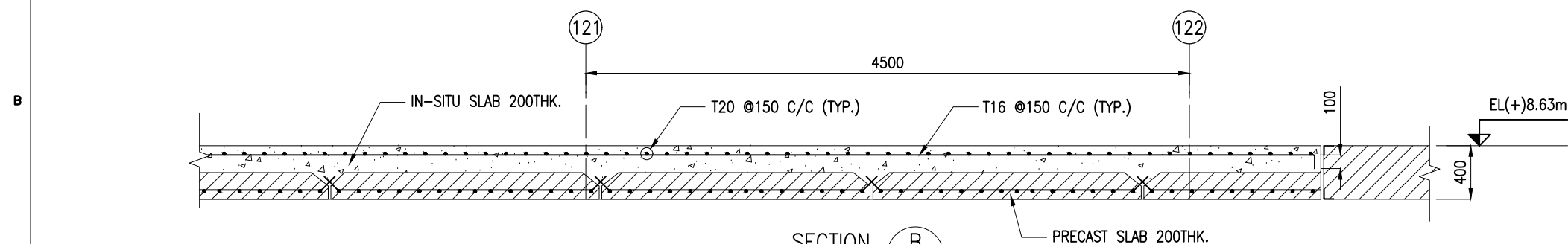
B	20.05.26	ISSUED FOR TENDER	GV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 4 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-205-04			DATE: 20.05.26	REV: B



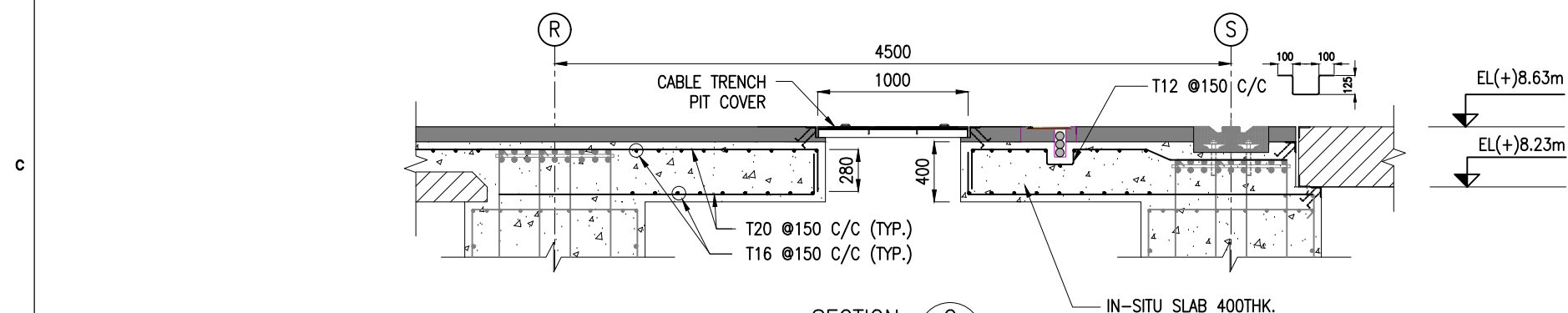




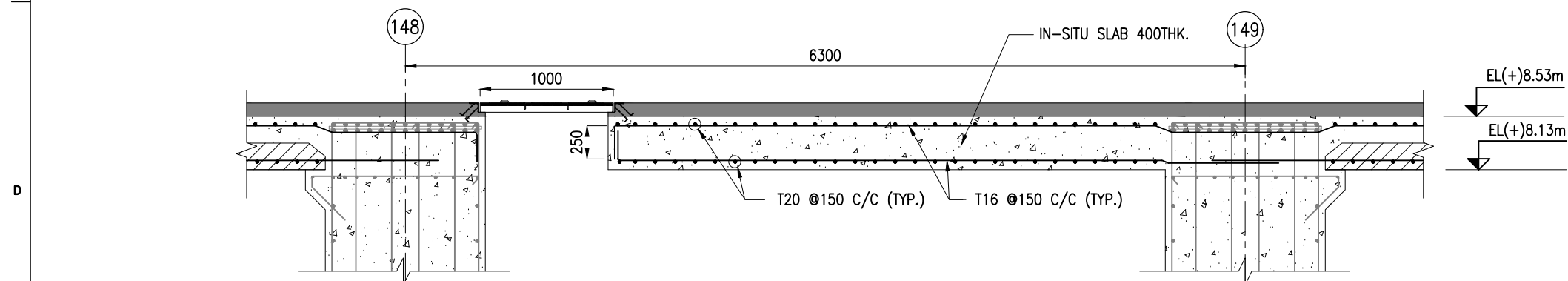
SECTION A
SCALE 1:40
SHT.01



SECTION B
SCALE 1:40
SHT.01





SECTION C
SCALE 1:40
SHT.01

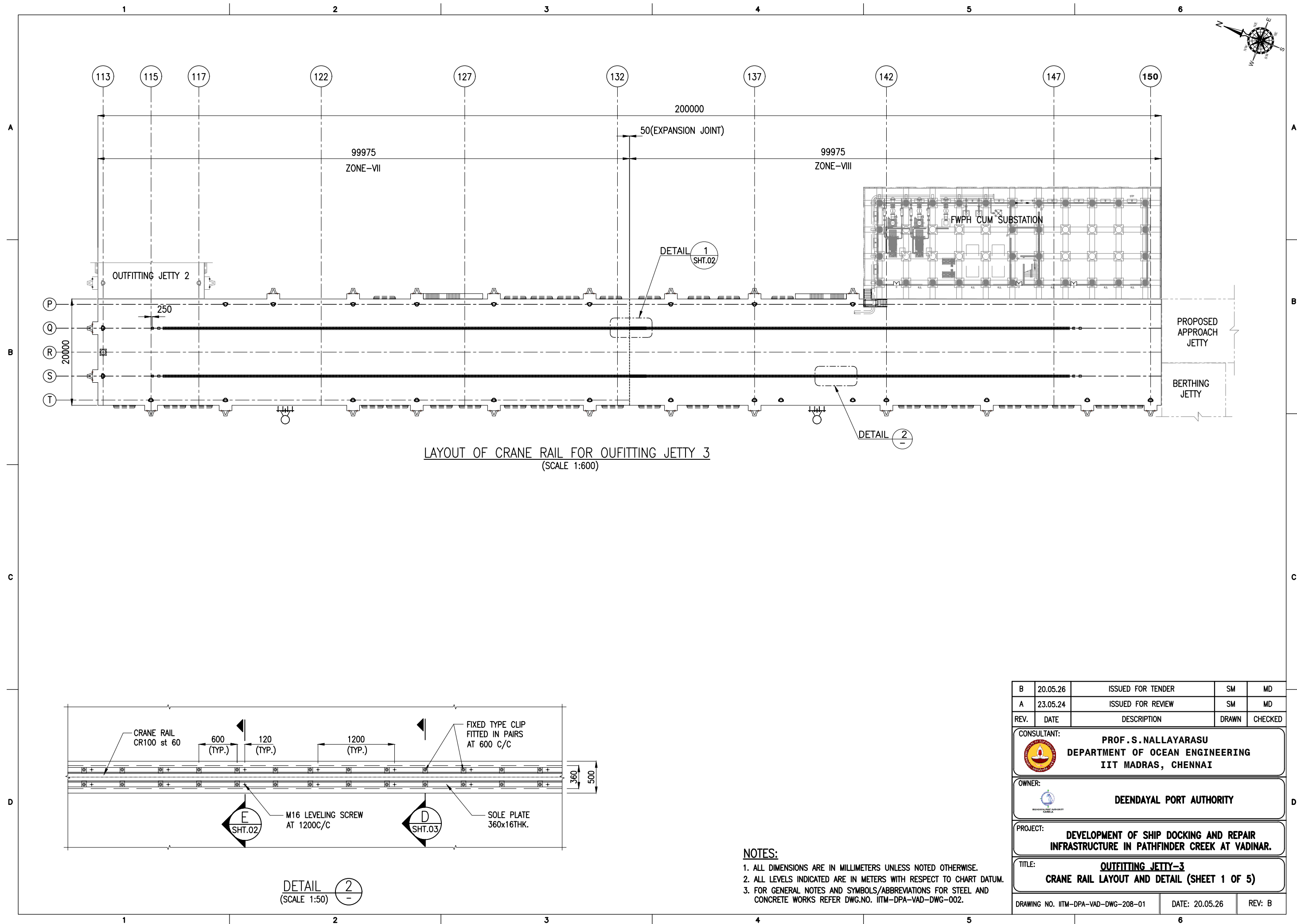


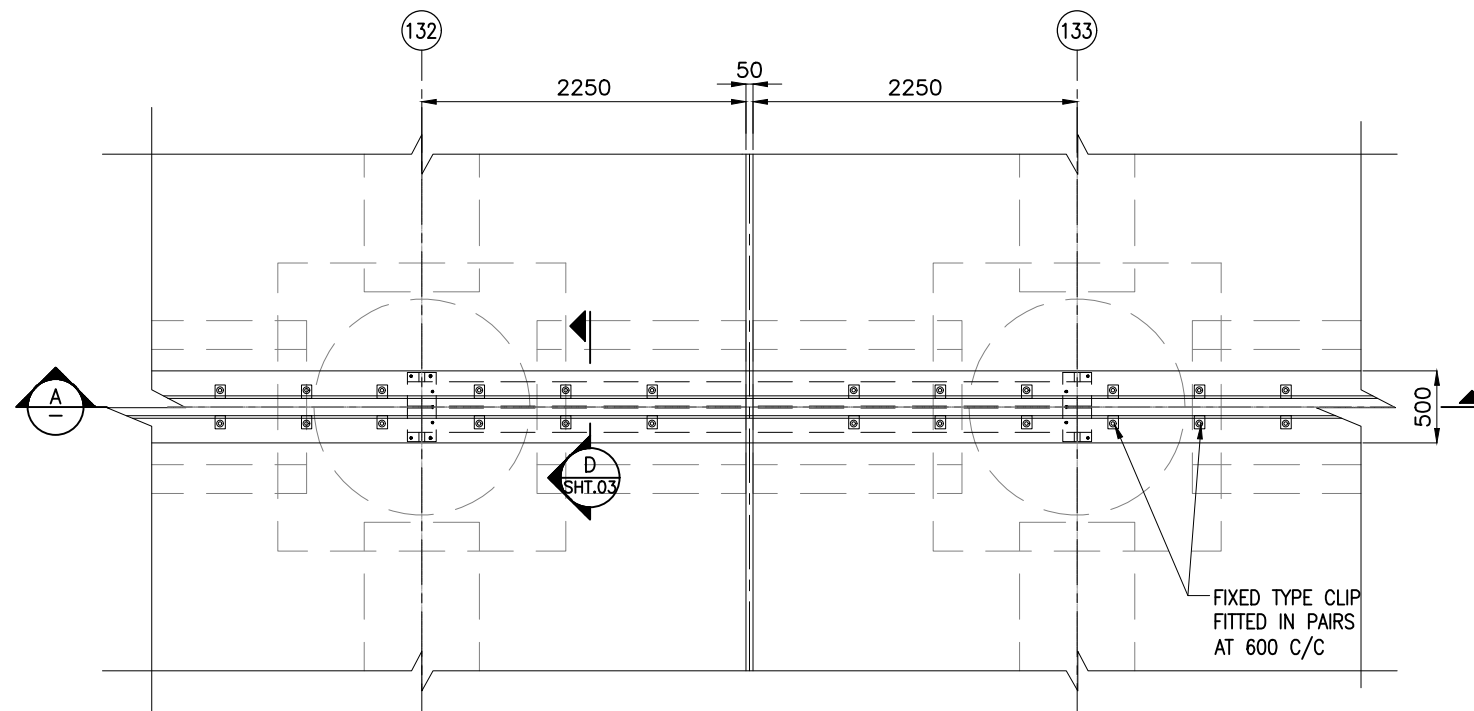
SECTION D
SCALE 1:40
SHT.01

NOTES:

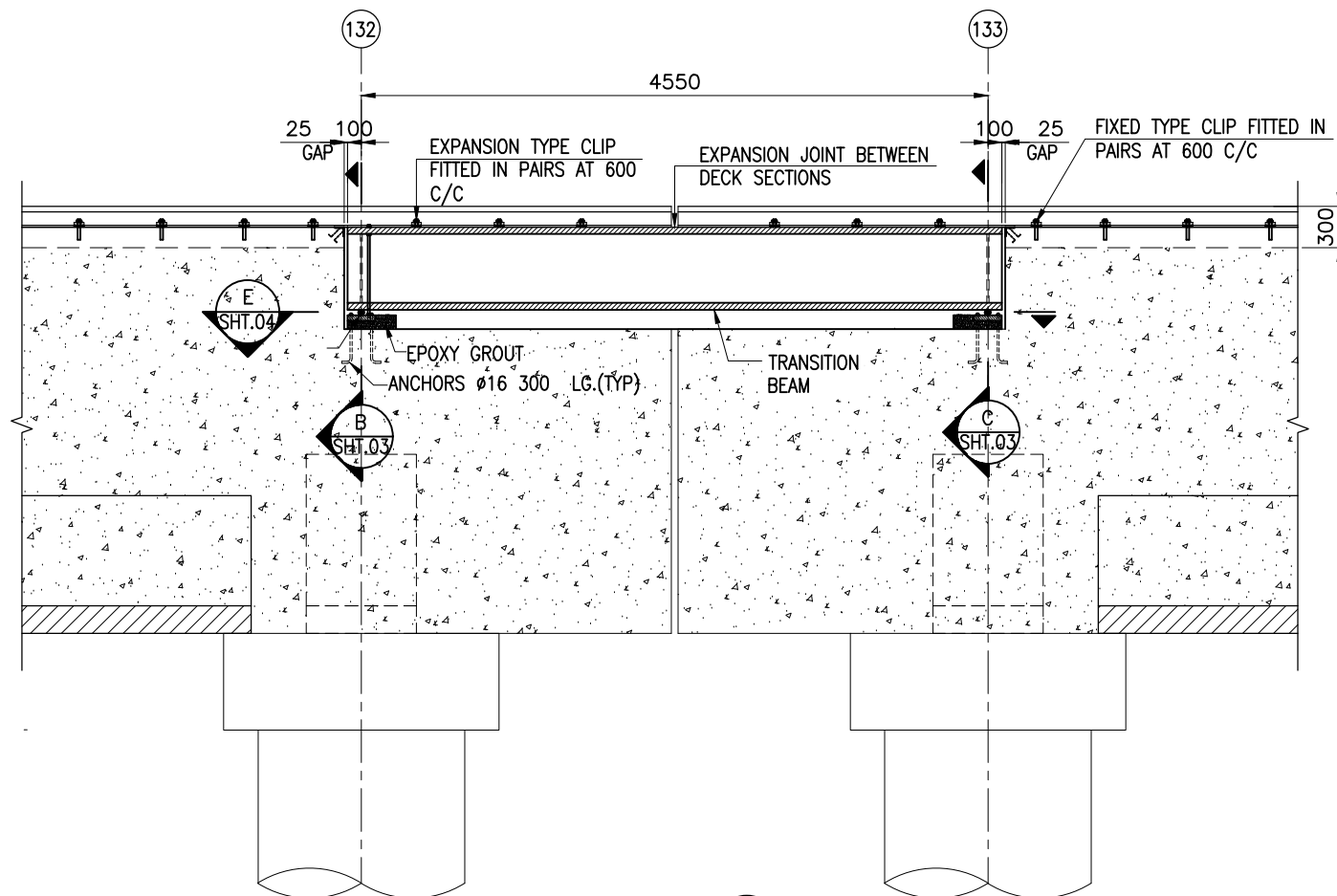
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT & RC DETAILS OF INSITU SLAB FOR TOP DECK AT EL(+8.630) (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-207-02			DATE: 20.05.26	REV: B







DETAIL 1
(SCALE 1:35) SHT.01

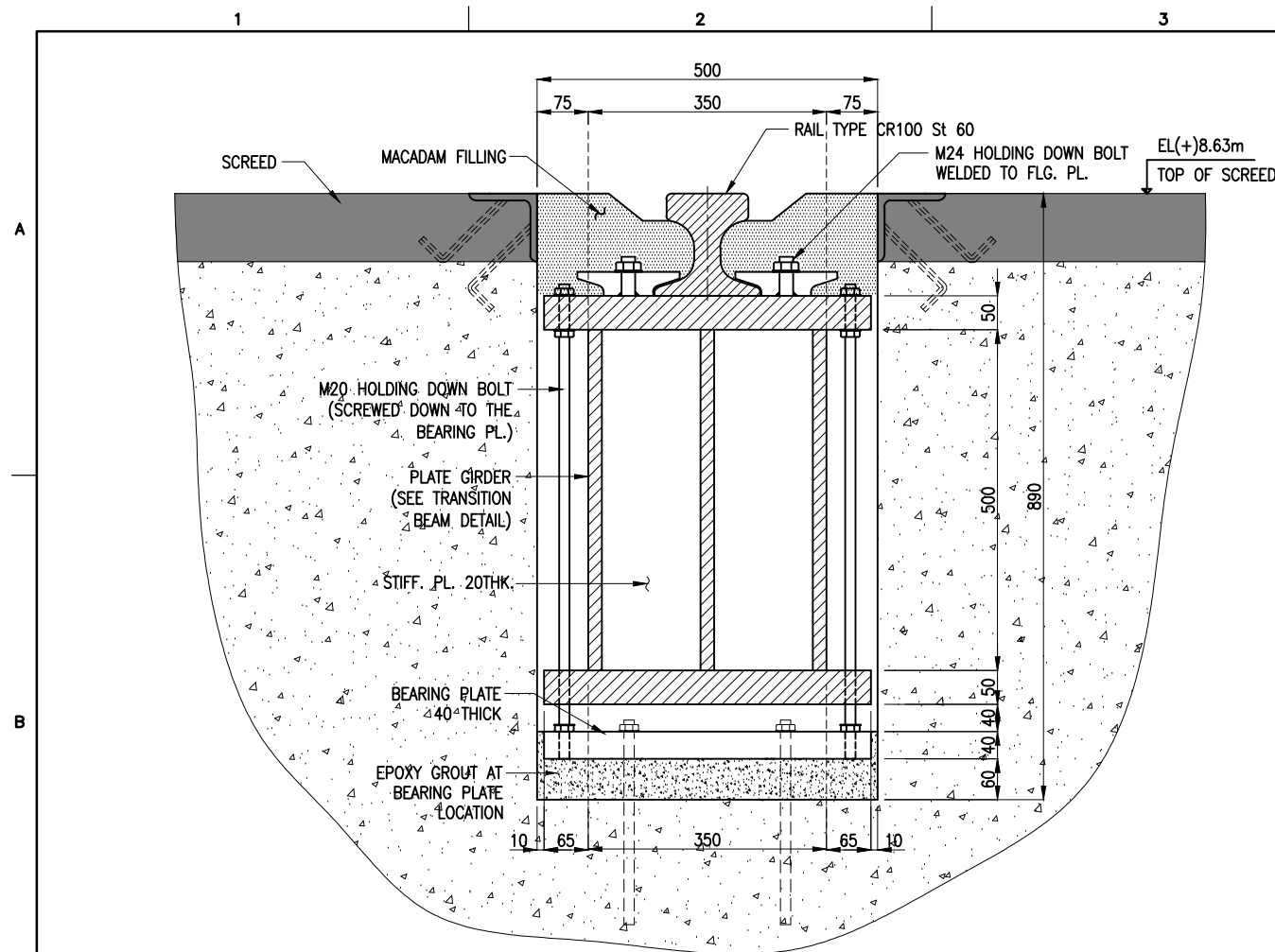


SECTION A
(SCALE 1:35)

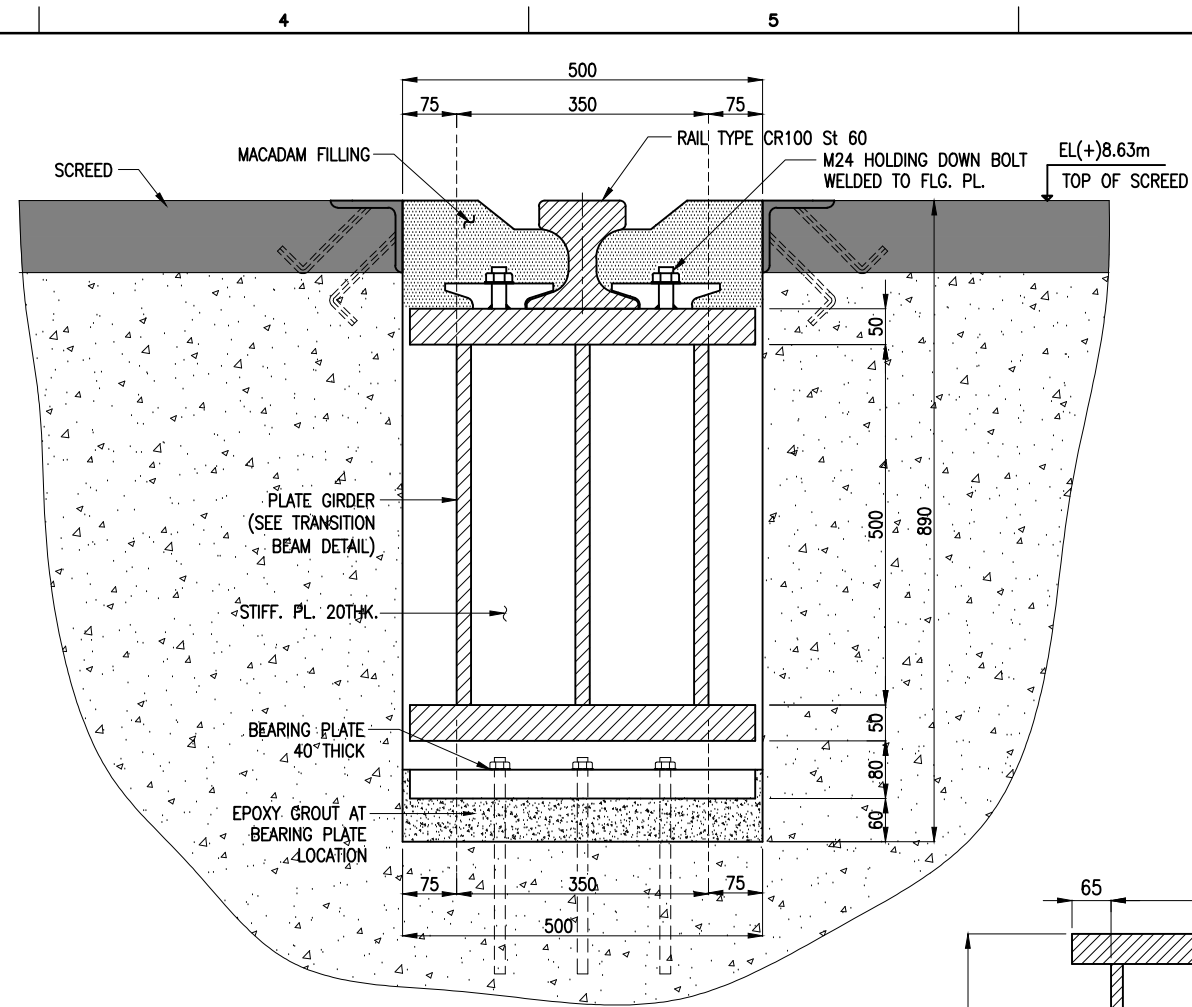
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
4. STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - a) ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'C250' - $F_y=250\text{MPa}$.
 - b) EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' - $F_y=350\text{MPa}$.
5. ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 (GRADE 8.8 AS PER IS1367 PART 3).
6. ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.
7. EPOXY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 100MPa.

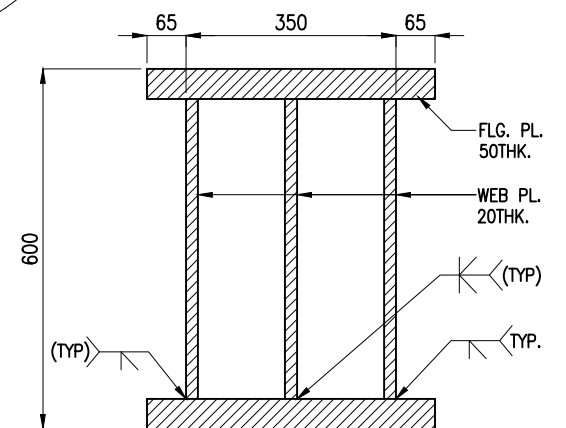
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 CRANE RAIL LAYOUT AND DETAIL (SHEET 2 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-208-02		DATE: 20.05.26		REV: B



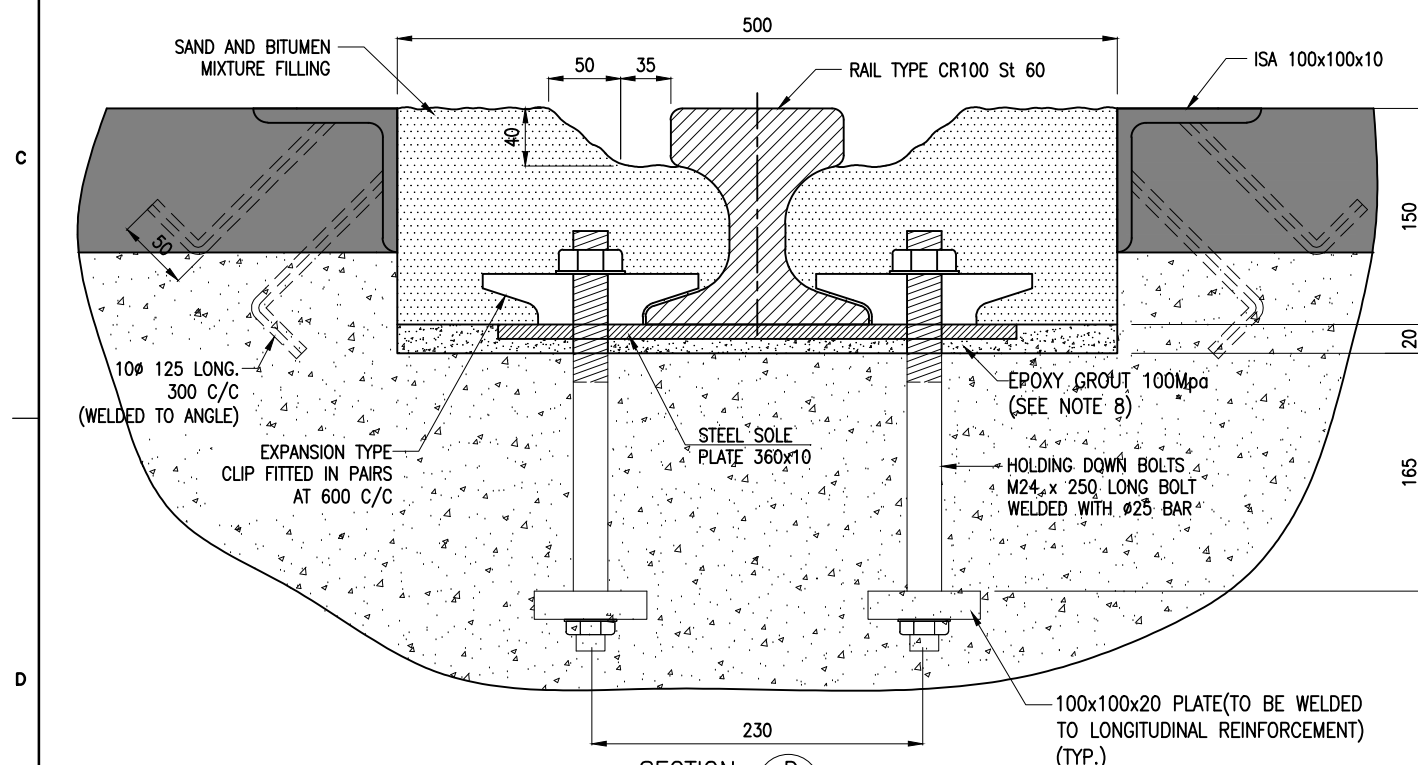
SECTION B (AT FIXED SUPPORT)
(SCALE 1:10) SHT.02



SECTION C (AT SLIDING SUPPORT)
(SCALE 1:10) SHT.02



TRANSITION BEAM DETAIL
(PLATE GIRDER)

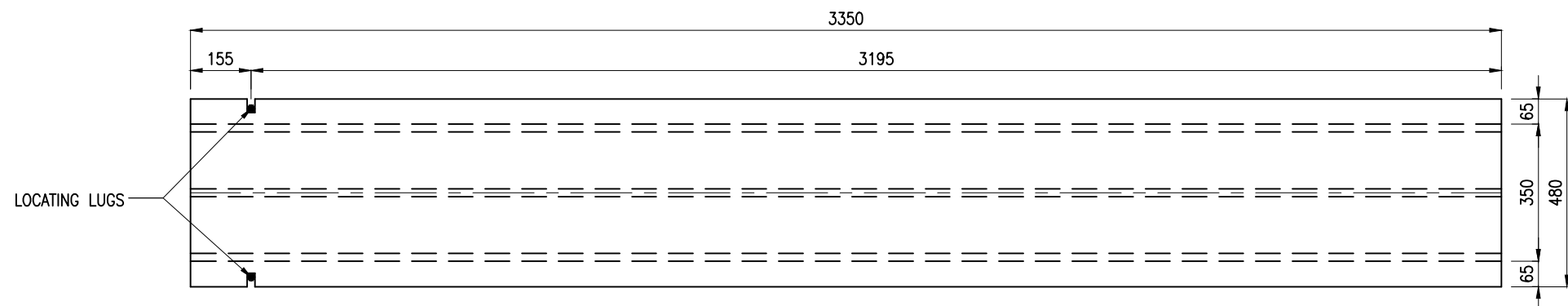


SECTION D (RAIL IN RECESS)
(SCALE 1:5) SHT.02

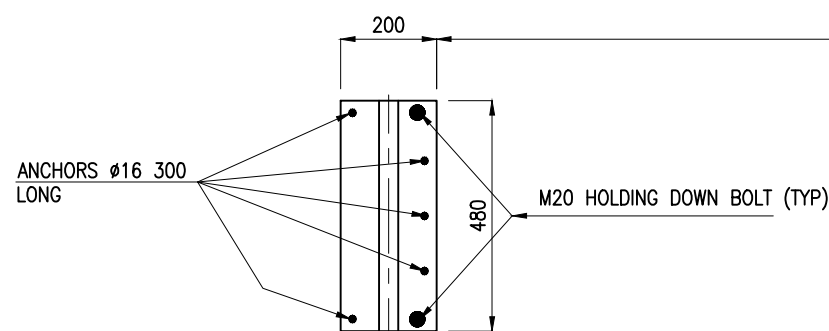
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- CONCRETE GRADE FOR ALL RC STRUCTURE SHALL BE M40 WITH MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF 40 MPa.
- STEEL GRADE FOR ALL REINFORCEMENT USED IN RC STRUCTURES SHALL BE CORROSION RESISTANT STEEL WITH A MINIMUM YIELD STRENGTH OF 500 MPa (Fe 500)
- STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'E250' - $F_y=250\text{MPa}$.
 - EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' - $F_y=350\text{MPa}$.
- ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 (GRADE 8.8 AS PER IS1367 PART 3).
- ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.
- EPOXY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 100MPa.

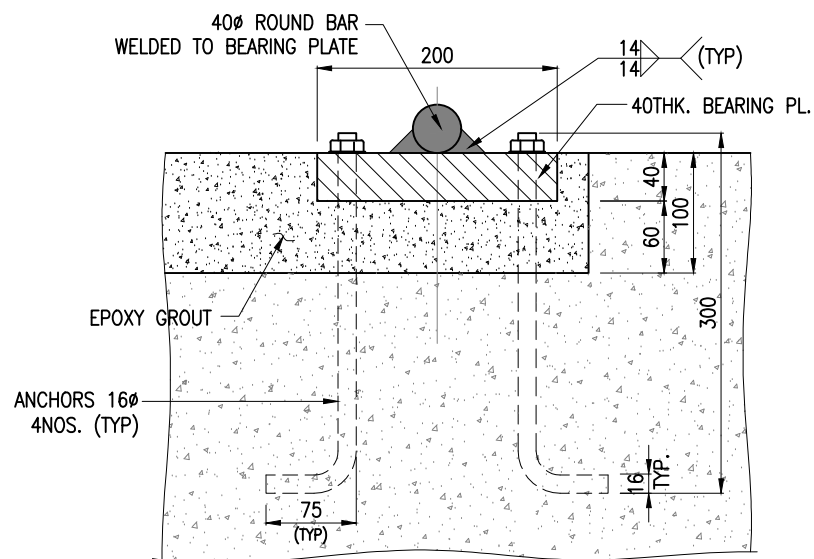
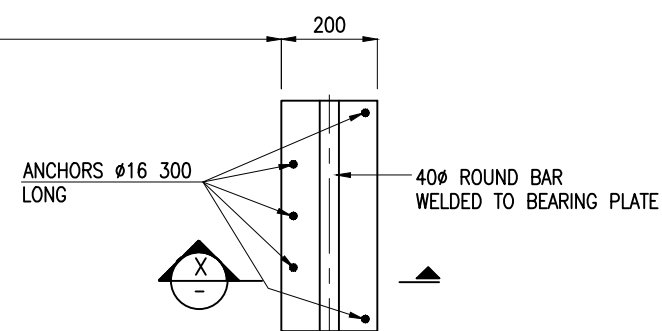
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 CRANE RAIL LAYOUT AND DETAIL (SHEET 3 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-208-03			DATE: 20.05.26	
			REV: B	



SECTION E
(SCALE 1:15) (SHT.02)
(UNDER SIDE OF TRANSITION BEAM)



TOP VIEW OF BEARING PLATES
(SCALE 1:15)

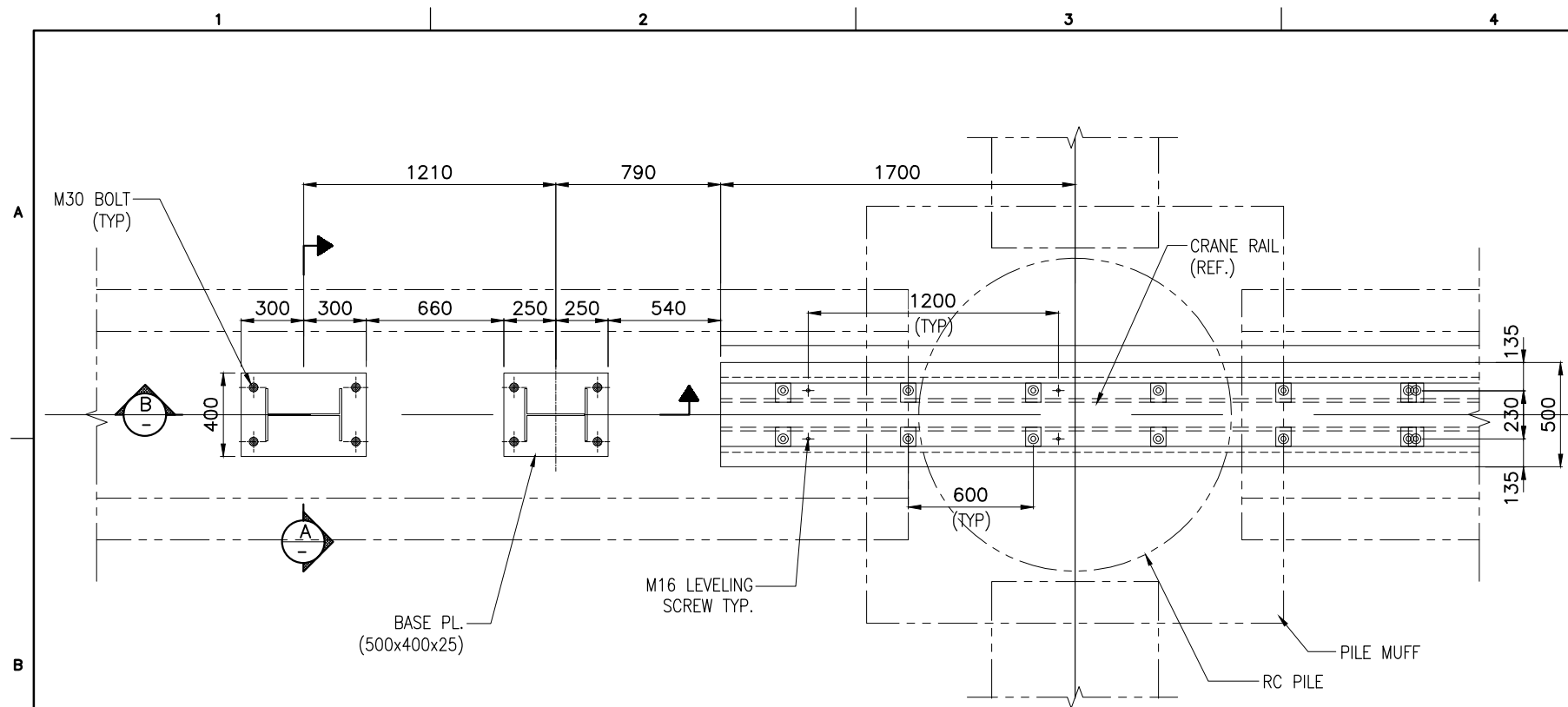


SECTION X
(SCALE 1:5)

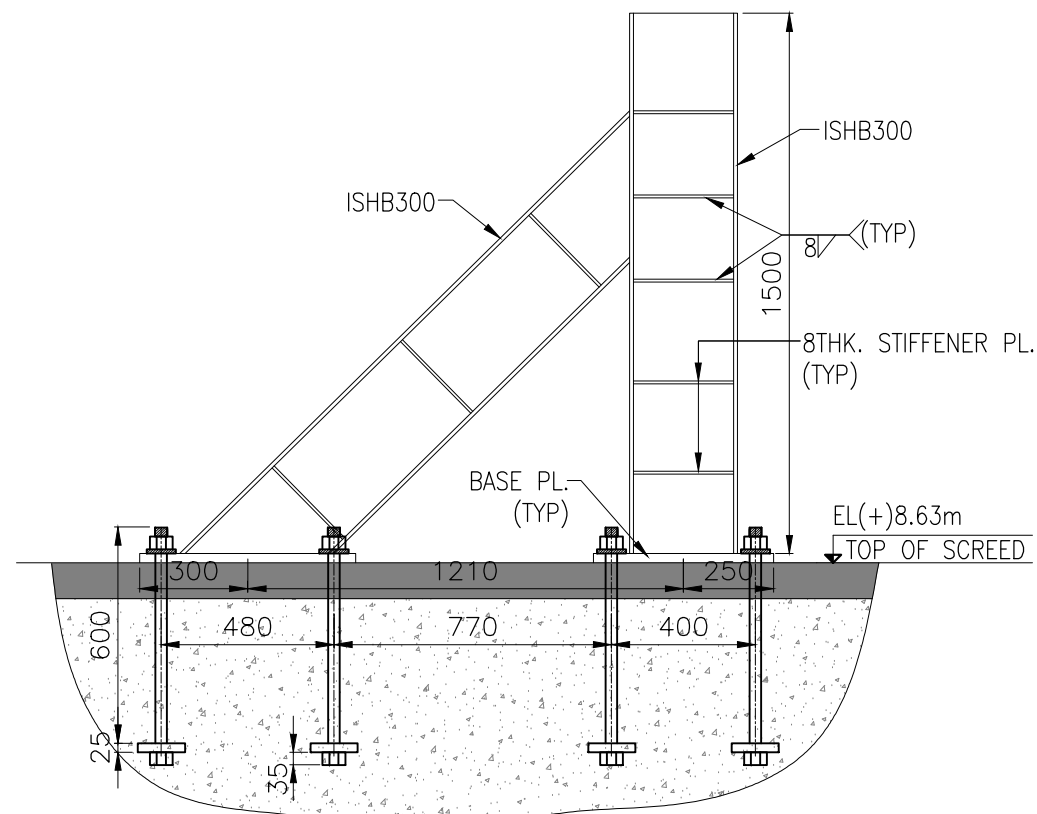
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
- STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'C250' - $F_y=250\text{MPa}$.
 - EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' - $F_y=350\text{MPa}$.
- ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 GRADE 8.8.
- ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 CRANE RAIL LAYOUT AND DETAIL (SHEET 4 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-208-04			DATE: 20.05.26	REV: B



BUFFER STAND
SCALE 1:30



VIEW B
(SCALE 1:25)

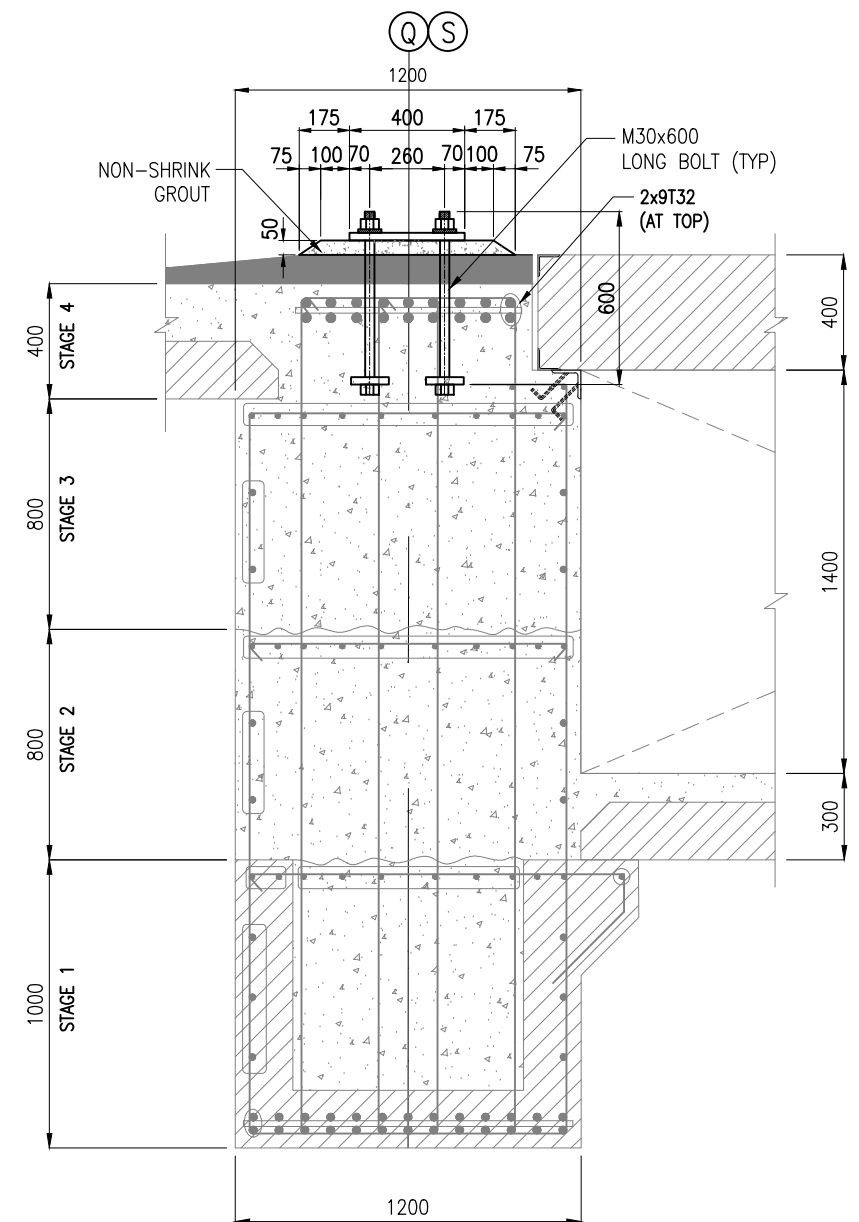
POSITION, SIZE, NUMBER OF BOLTS, SPACING OF BOLTS ON HOLD PENDING DETAILS FROM VENDOR.

LEGEND:

- PRECAST
- IN-SITU

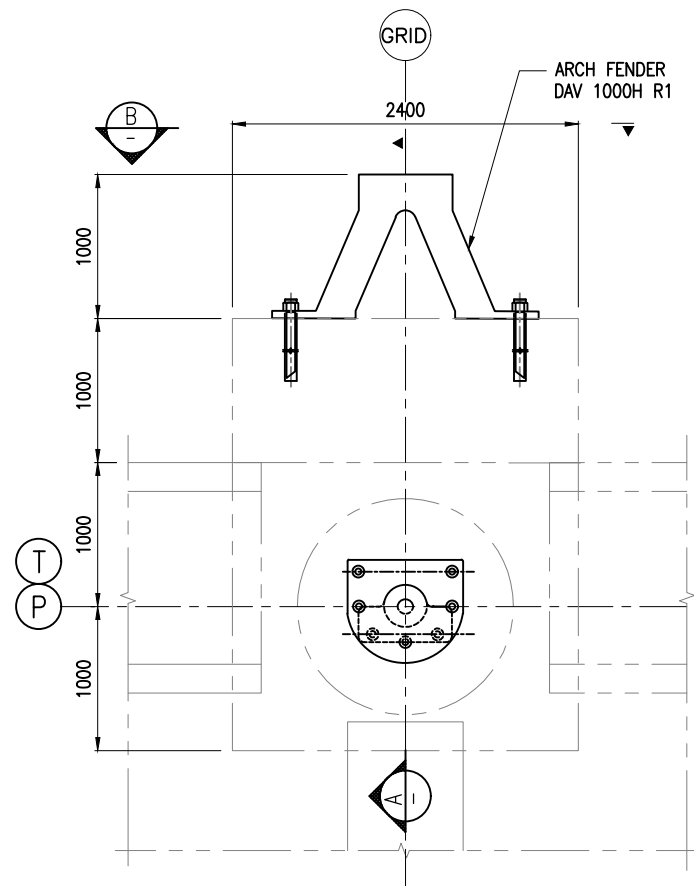
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
4. STRUCTURAL STEEL MATERIAL SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS
 - a) ANGLES, BASE PLATE FOR CONVEYOR SUPPORT POST.
TYPE I - IS2062 GRADE 'C250' - $F_y=250\text{MPa}$.
 - b) EXPANSION JOINT AT CRANE RAIL, BASE PLATE FOR ANCHORS.
TYPE II - IS2062 GRADE 'E350' CLASS C - $F_y=350\text{MPa}$.
5. ALL ANCHOR BOLTS SHALL CONFIRM TO IS5624 GRADE 8.8.
6. ALL ANCHOR BOLTS AND STRUCTURAL BOLTS SHALL BE HOT DIP GALVANISED.



SECTION A
(SCALE 1:25)

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 CRANE RAIL LAYOUT AND DETAIL (SHEET 5 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-208-05			DATE: 20.05.26	REV: B



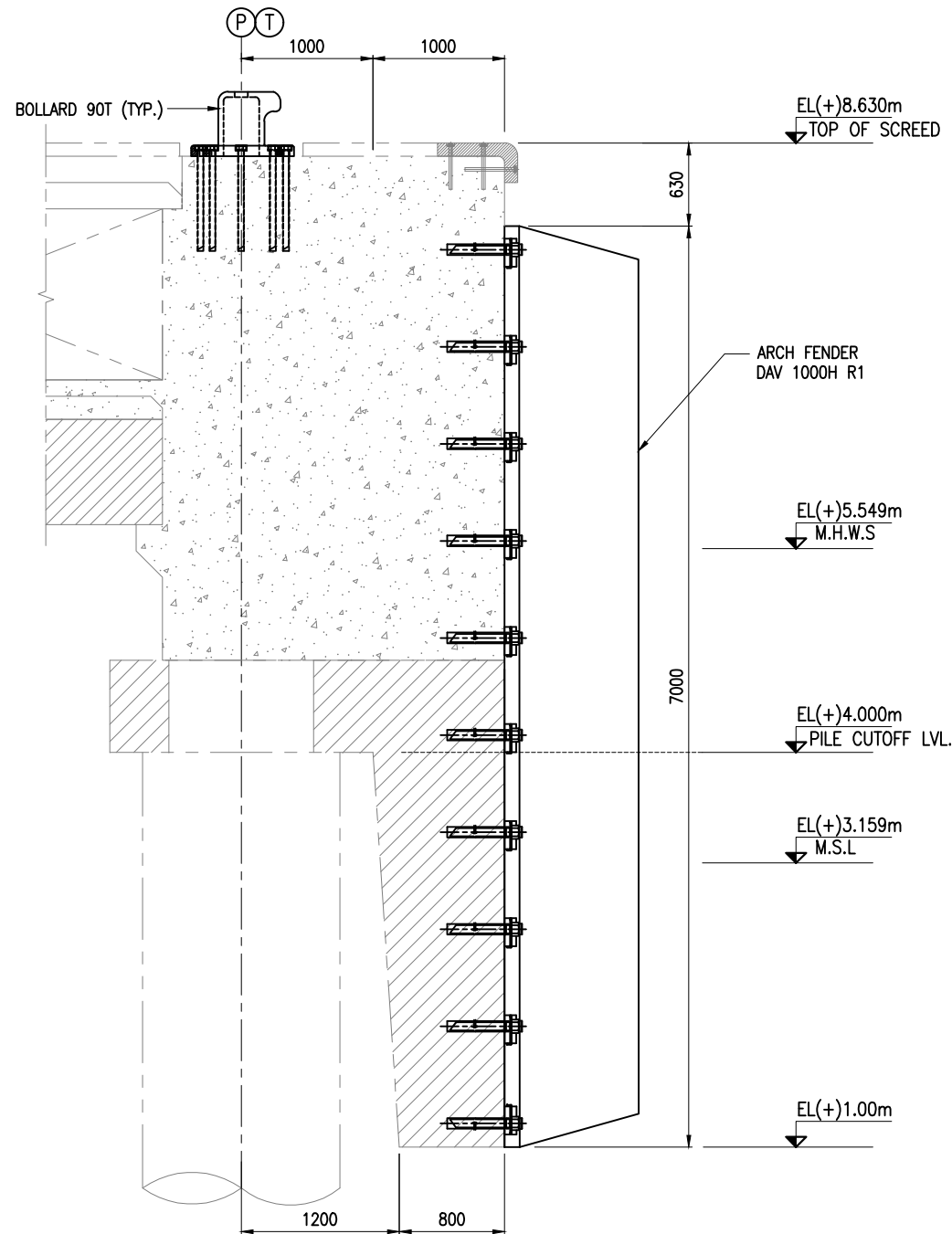
PLAN
SCALE 1:50

SCHEDULE FOR FENDER

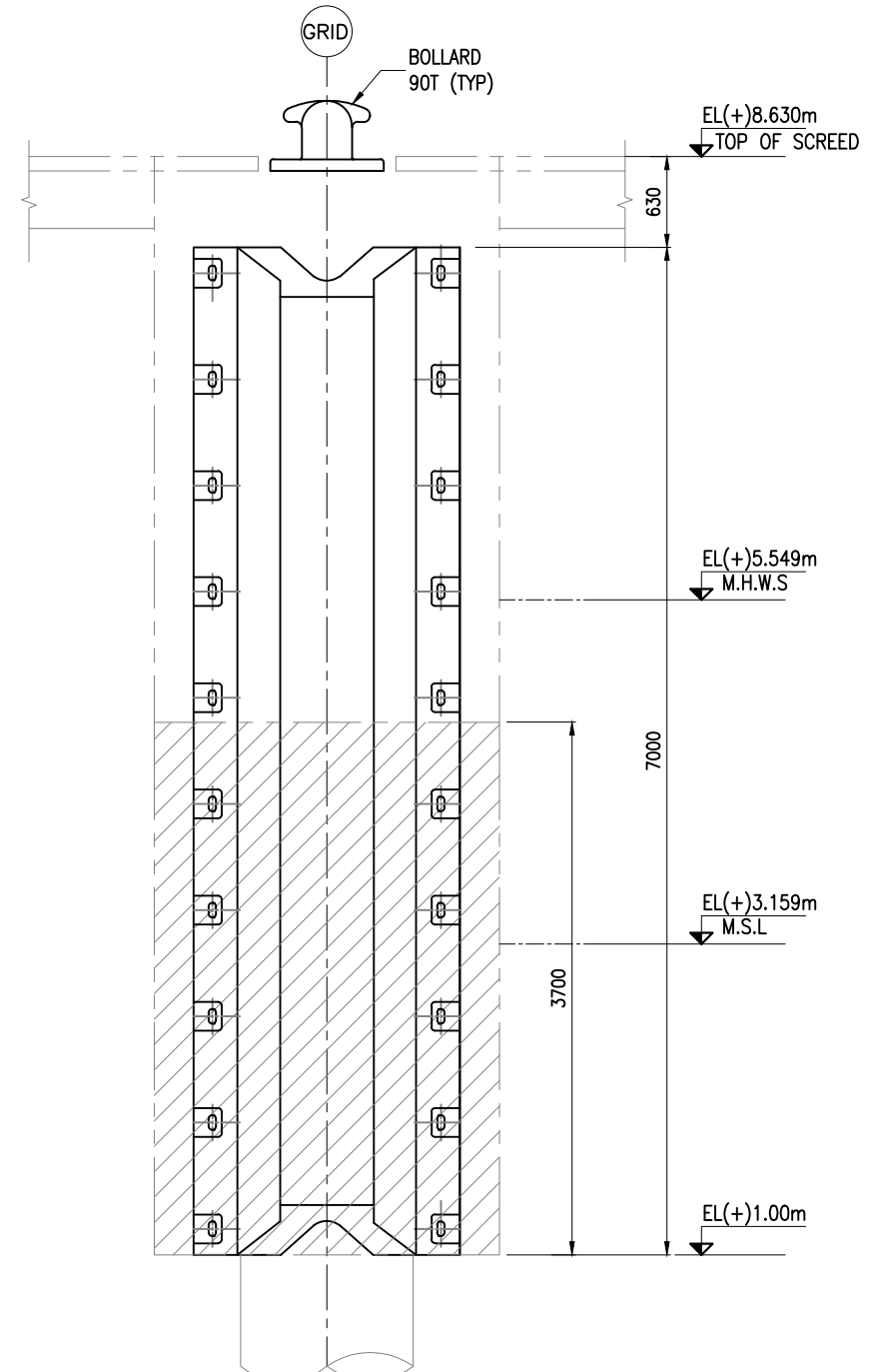
GRID	FENDER AT GRID LOCATION	NOS.
P	120,123,125,128,131,134,137,141	8
T	115,118,123,125,128,131,134,137,142,145,148,150	12
Q	113	1
S	113	1

SCHEDULE FOR BOLLARD

GRID	BOLLARD AT GRID LOCATION	NOS.
P	118,120,123,125,128,131,134,137,141	9
T	115,118,119,122,123,125,128,131,134,137,138,141,142,145,148,150	16
Q	113	1
S	113	1



SECTION A
(SCALE 1:50)

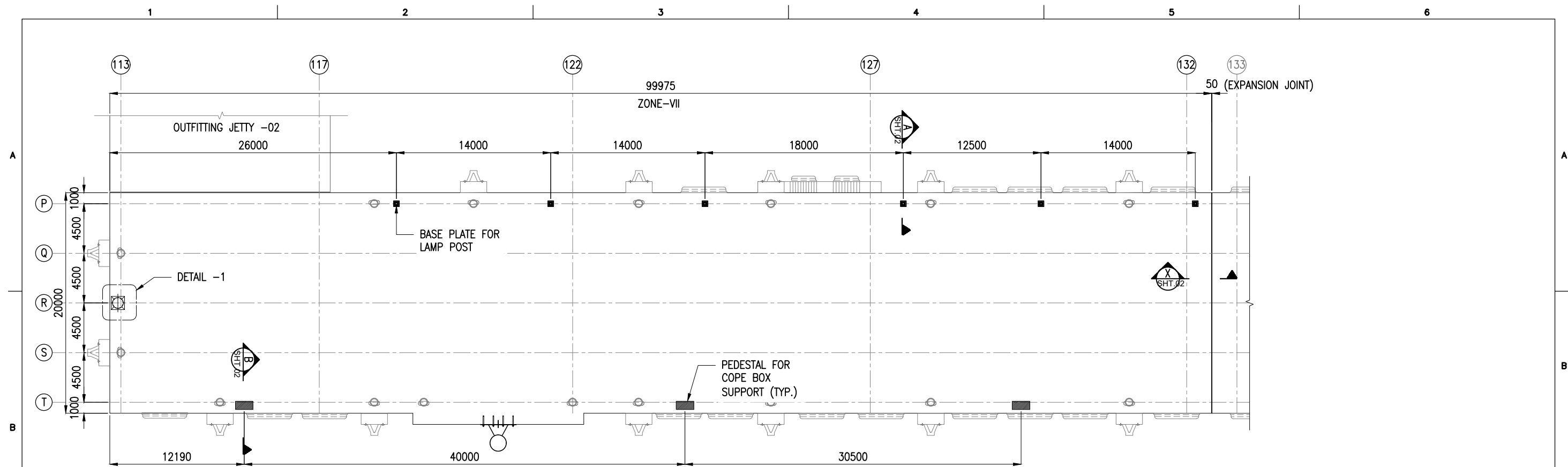


SECTION B
(SCALE 1:50)

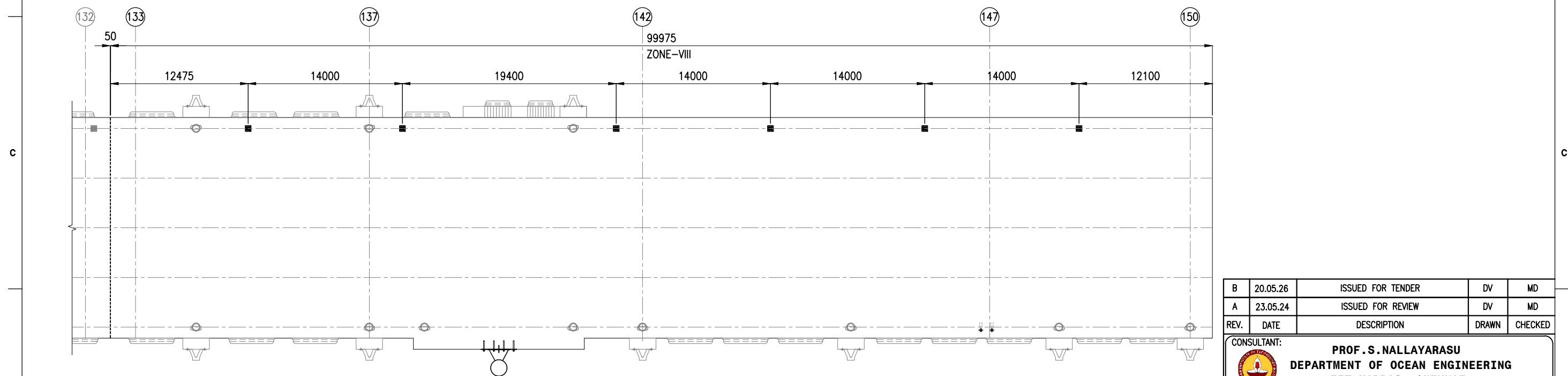
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- ARCH TYPE FENDER WITH 217kNm/m ENERGY CAPACITY SHALL BE SELECTED WITH NOT TO EXCEED REACTION OF 556kN/m. SELECTED FENDER SHALL BE INSTALLED WITH ALL NECESSARY ANCHORS ON TO THE CONCRETE. THE ANCHORS SHALL BE DESIGNED FOR ALL DESIGN FORCES DURING BERTHING.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 FIXING DETAILS OF FENDER/BOLLARD				
DRAWING NO. IITM-DPA-VAD-DWG-209			DATE: 20.05.26	REV: B



LAYOUT OF LAMP POST / EXPANSION JOINT
ZONE-VII
(SCALE 1:350)

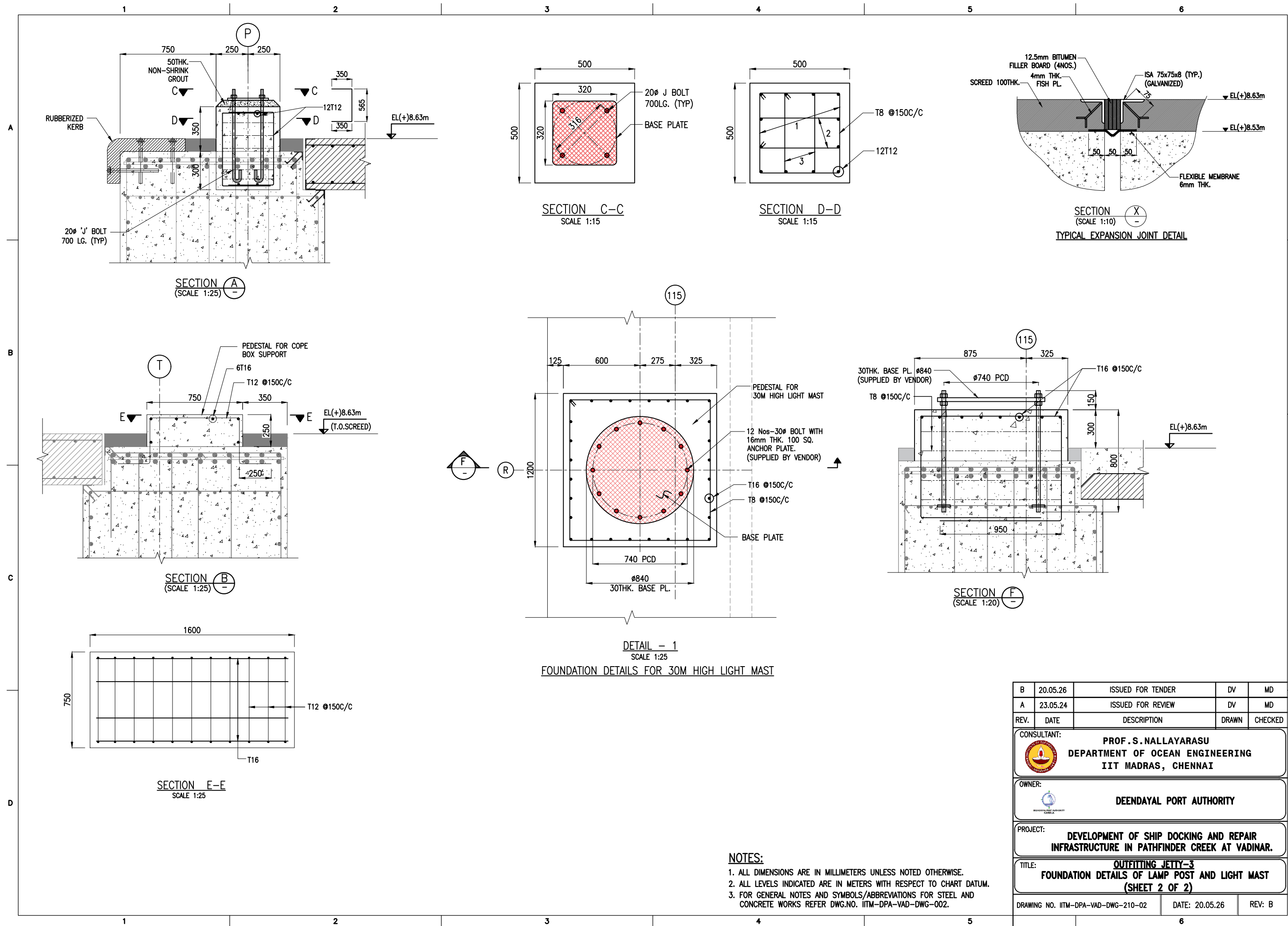


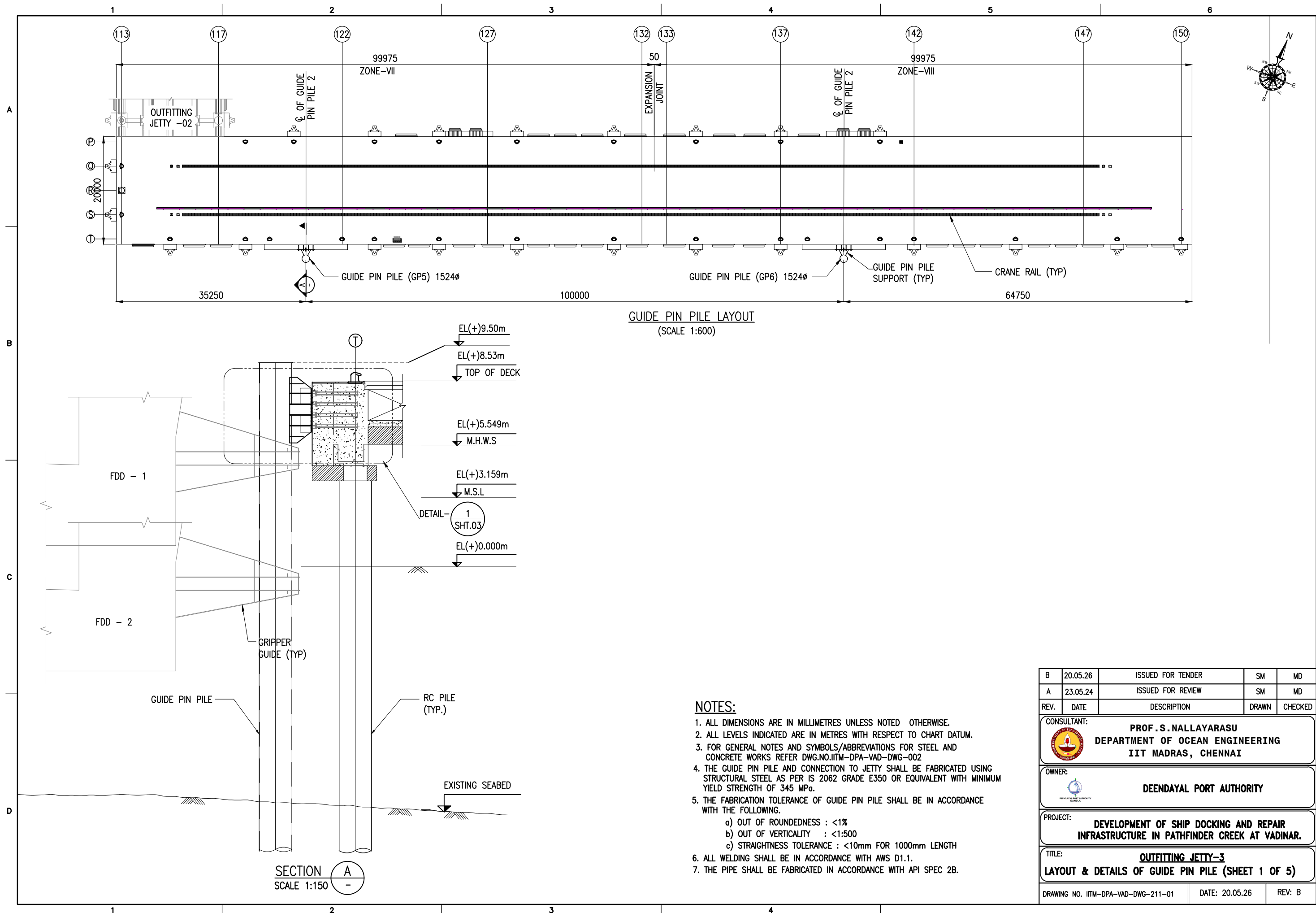
LAYOUT OF LAMP POST / EXPANSION JOINT
ZONE-VIII
(SCALE 1:350)

NOTES:

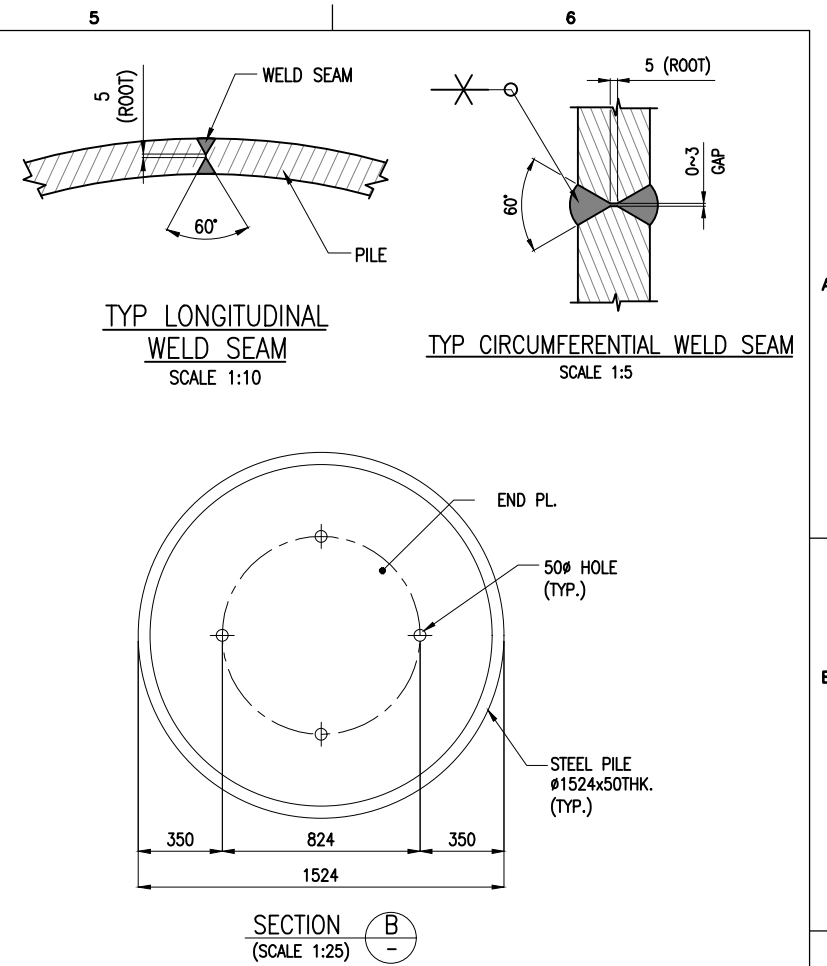
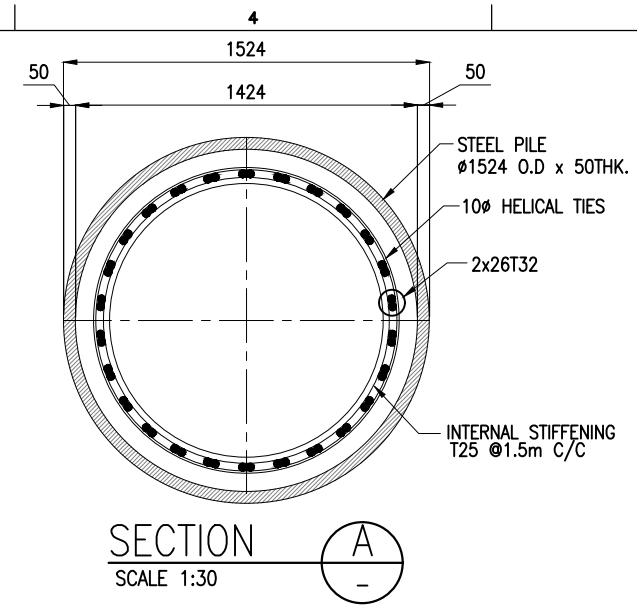
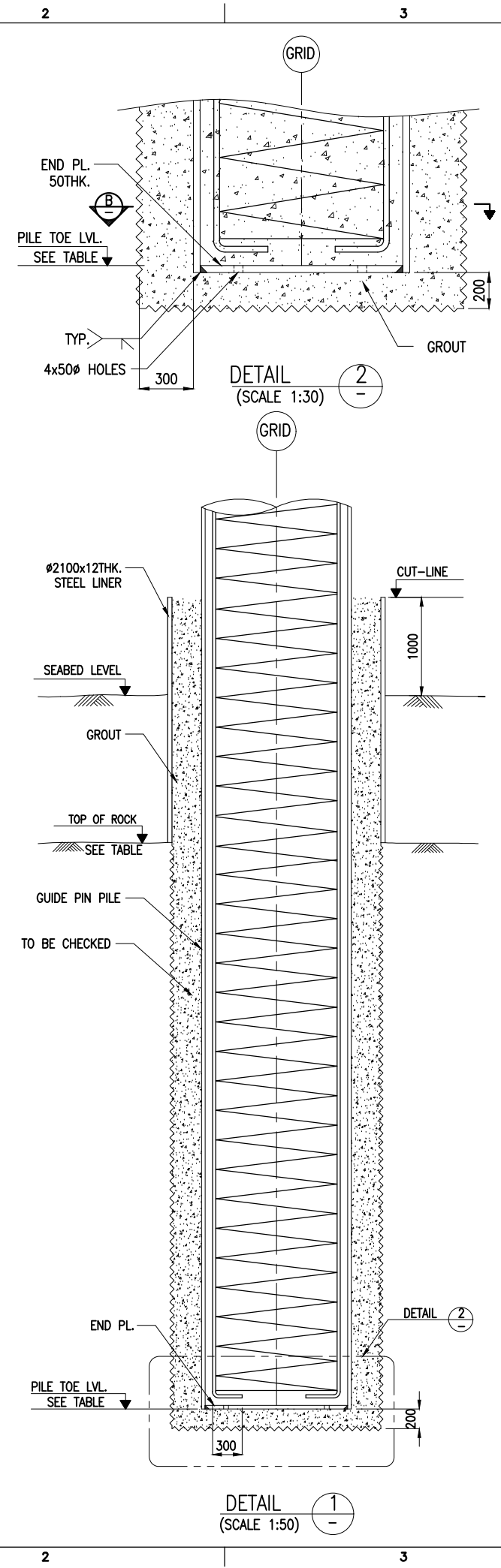
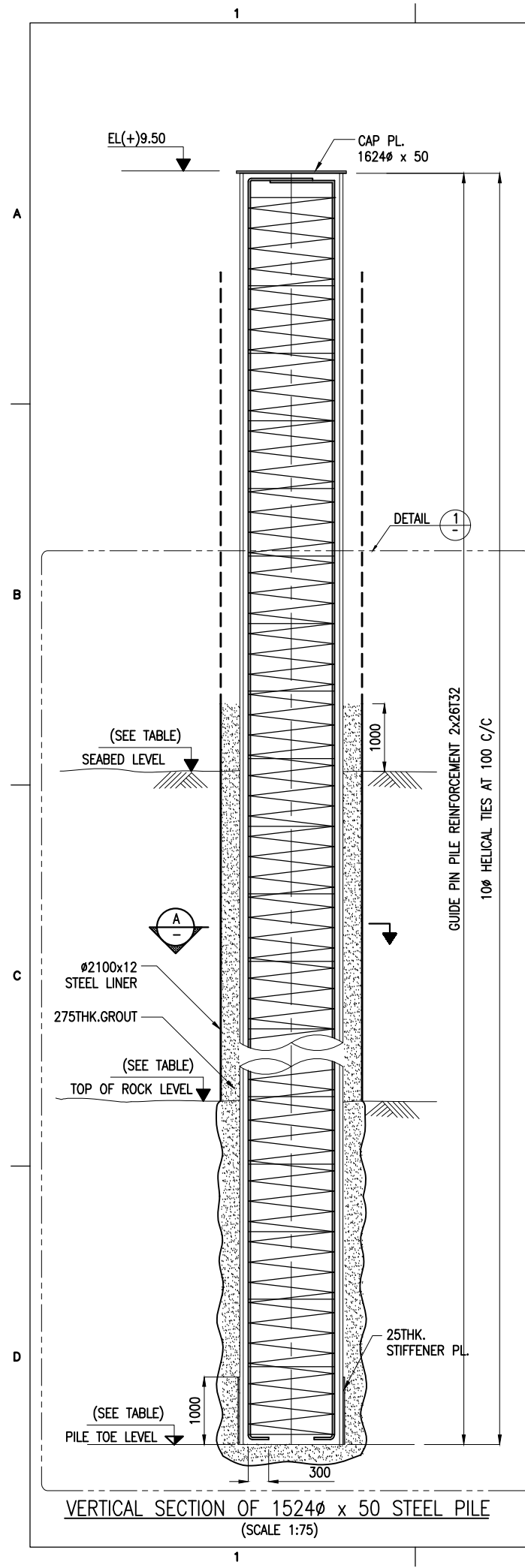
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 FOUNDATION DETAILS OF LAMP POST AND LIGHT MAST (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-210-01			DATE: 20.05.26	REV: B





B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 1 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-211-01		DATE: 20.05.26		REV: B



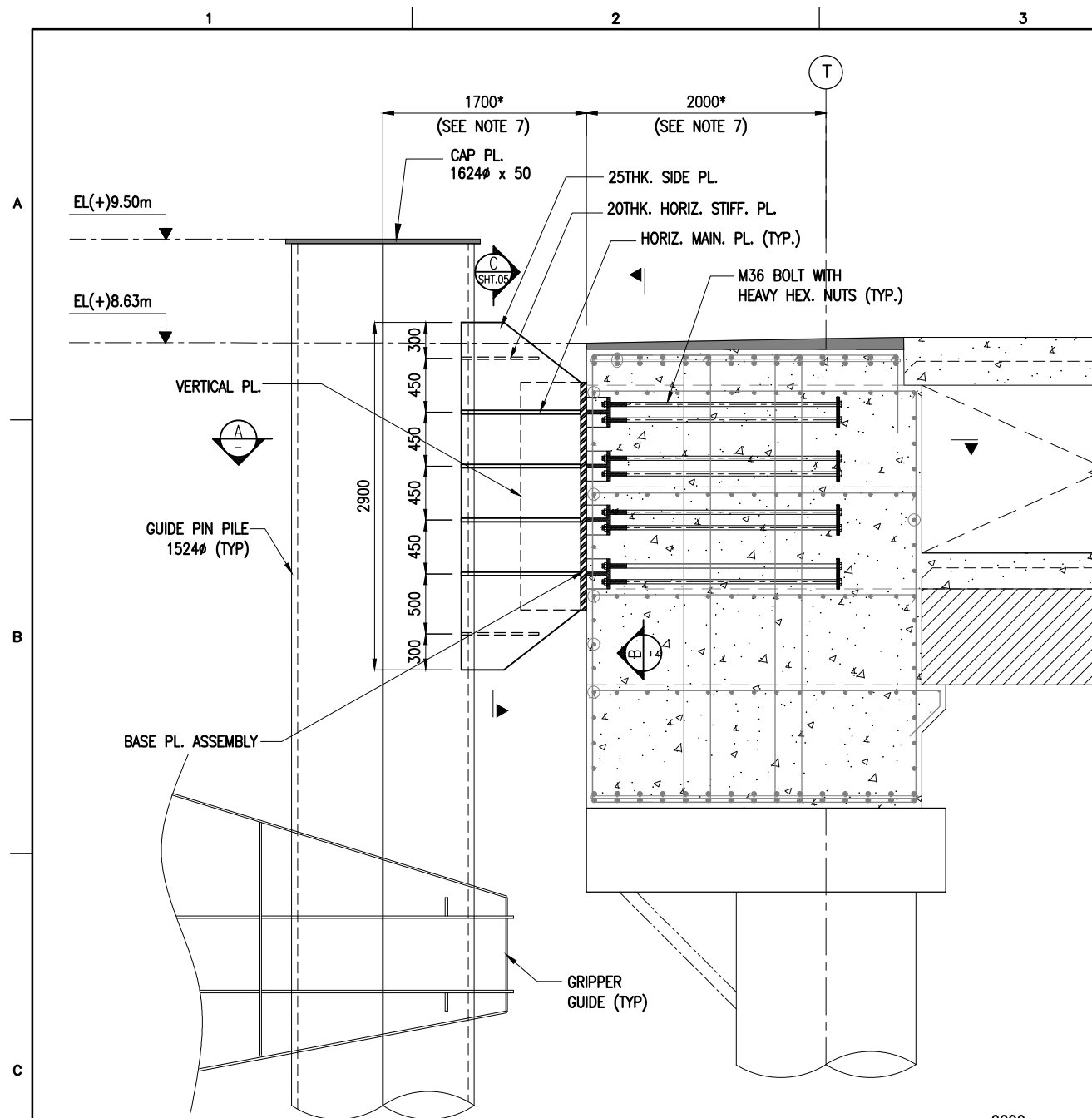
PILE SCHEDULE:

S.NO	DESCRIPTION	PILE Ø (mm)	NO.OF PILES	BOTTOM OF LINER (m)	SEABED LVL. (m)	PILE CUT-OFF LVL. (m)	ROCK LVL.(m)	PILE TOE LVL. (m)	PILE WORKING LOAD (T)	
									VERT.	HORIZ.
1	OUTFITTING JETTY 3 - GP5,GP6	1524x50	2	-23.00	-12.00 TO -14.00	(+)9.50	(-)23.00	(-)27.50	350	200

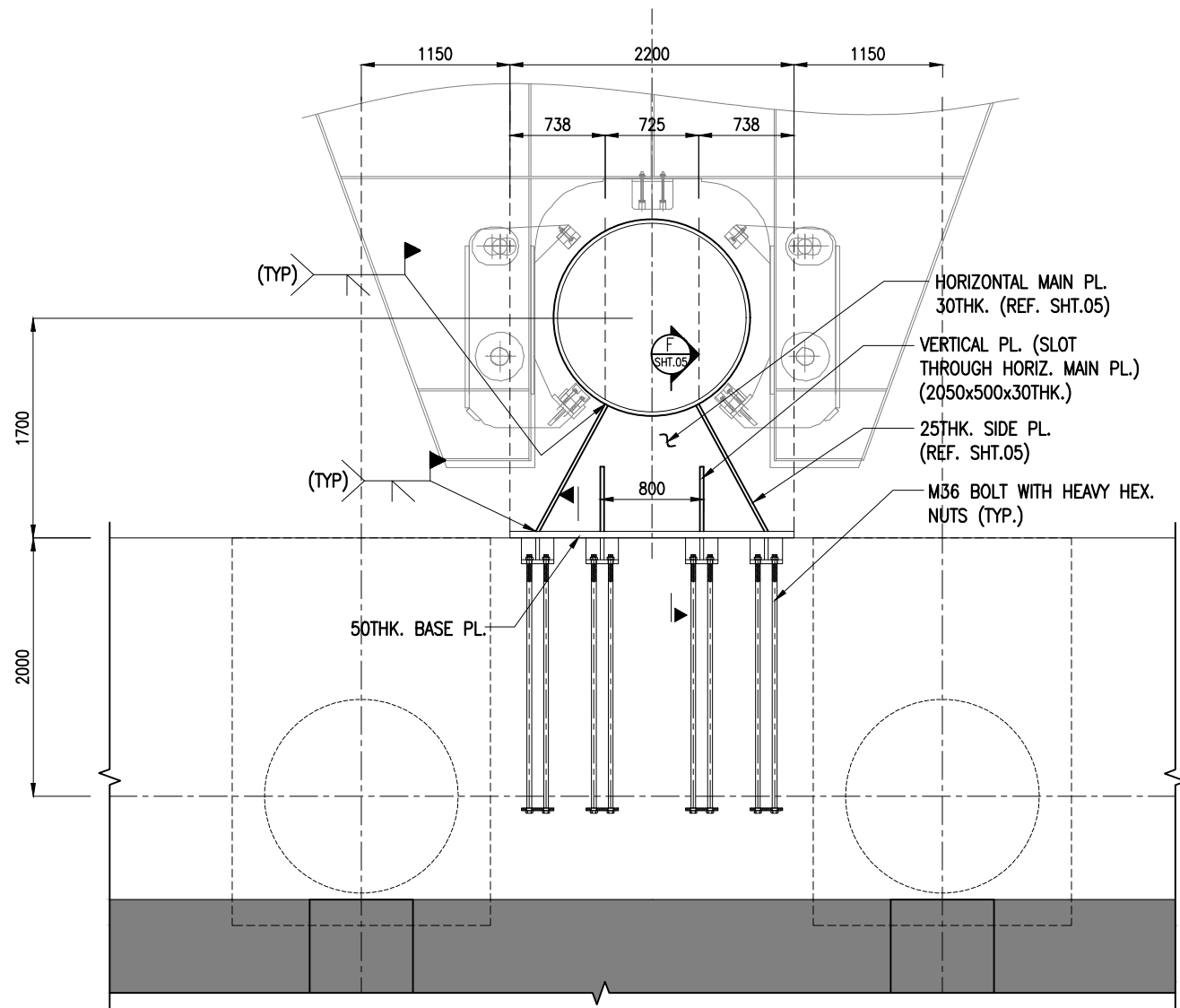
NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES, MATERIAL DETAILS AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG. NO. IITM-DPA-VAD-DWG-002.
- LINER SHALL BE DRIVEN TO REFUSAL.
- THE SEABED AND HARD ROCK LEVELS ARE BASED ON EXISTING GEOTECHNICAL DATA AND THE ACTUAL ELEVATIONS SHALL BE ESTABLISHED DURING EXECUTION.
- PILE SHALL BE SOCKETED INTO HARD/WEATHERED ROCK. THE MINIMUM SOCKET LENGTH SHALL BE AS FOLLOWS:
 - 6 TIMES THE DIAMETER IN TO SOFT OR WEATHERED ROCK.
 - 3 TIMES THE DIAMETER IN TO HARD ROCK.
 - A COMBINATION OF SOFT/WEATHERED AND HARD/INTACT ROCK THE DEPTH TO BE DETERMINED BASED ON CASE TO CASE BASIS BY THE ENGINEER'S REPRESENTATIVE. THE DECISION OF ENGINEER'S REPRESENTATIVE/CONSULTANT IS FINAL.
- THE ROCK LEVEL SHALL BE DETERMINED BASED ON THE FOLLOWING CRITERIA.
 - SPT EXCEEDING
 - INTACT/HARD ROCK - 100
 - WEATHERED/SOFT ROCK - 50
 - CHISELLING/BORING ENERGY CALCULATED AS PER IRC78.
 - INTACT/HARD ROCK - 250 Tm/m²/cm
 - WEATHERED/SOFT ROCK - 150 Tm/m²/cm
- THE PILE TERMINATION LEVELS SHOWN IN THIS DRAWING IS APPROXIMATE AND MAY VARY DEPENDING ON HARD ROCK LEVELS.
- PILE SHALL BE CAST 600mm HIGHER THAN THE PILE CUT-OFF LEVEL AND OVERFLOW OF CONCRETE SHALL BE OBSERVED AND THE ADDITIONAL LENGTH OF PILE SHALL BE CUT AFTER 28 DAYS OF CASTING THE PILE.
- SUITABLE SIZE OF OVERSIZED LINER SHALL BE USED TO DRILL 2100Ø HOLE FOR ERECTION OF GUIDE PILE.
- OVERSIZE LINER SHALL BE CUT AND REMOVED AT SEABED AFTER ERECTION OF PILE.

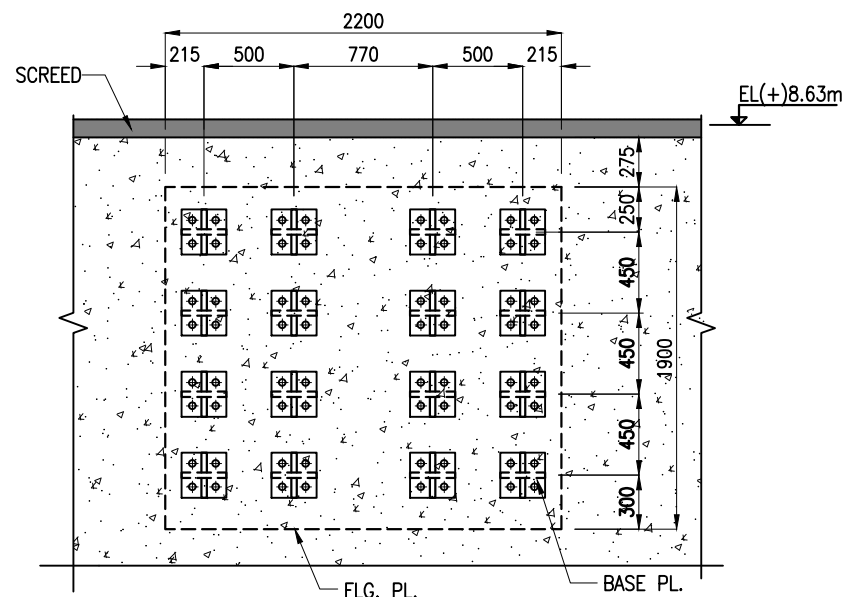
B	20.05.26	ISSUED FOR TENDER	DV	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 2 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-211-02		DATE: 20.05.26		REV: B



DETAIL 1
SCALE 1:50 SHT.01



SECTION A
SCALE 1:50



SECTION B
SCALE 1:40

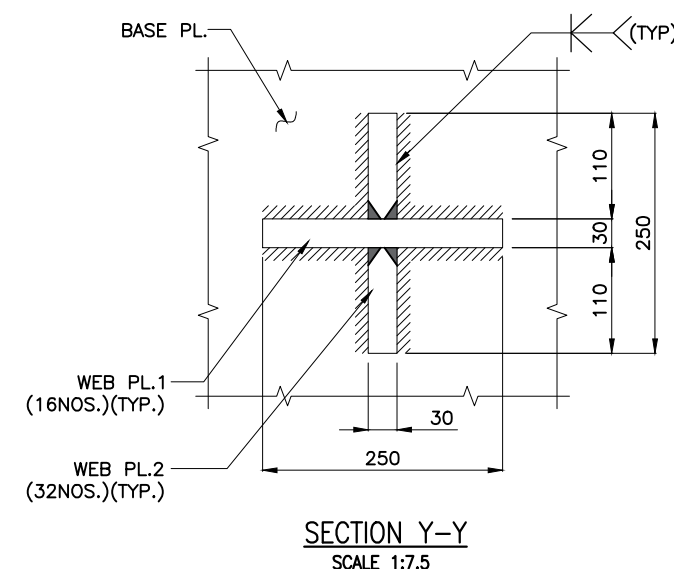
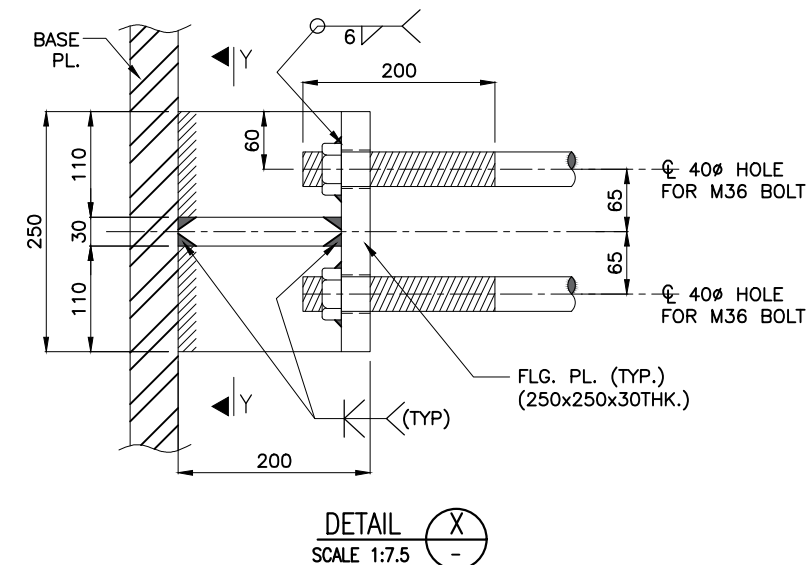
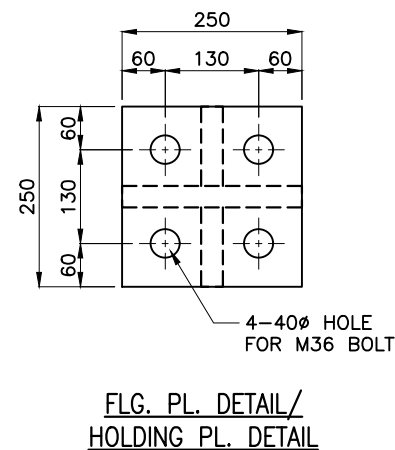
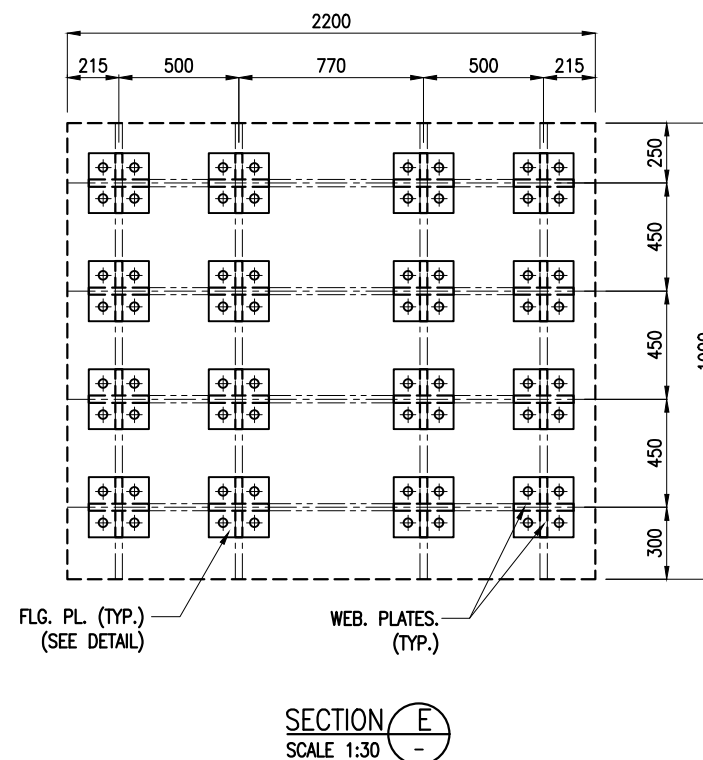
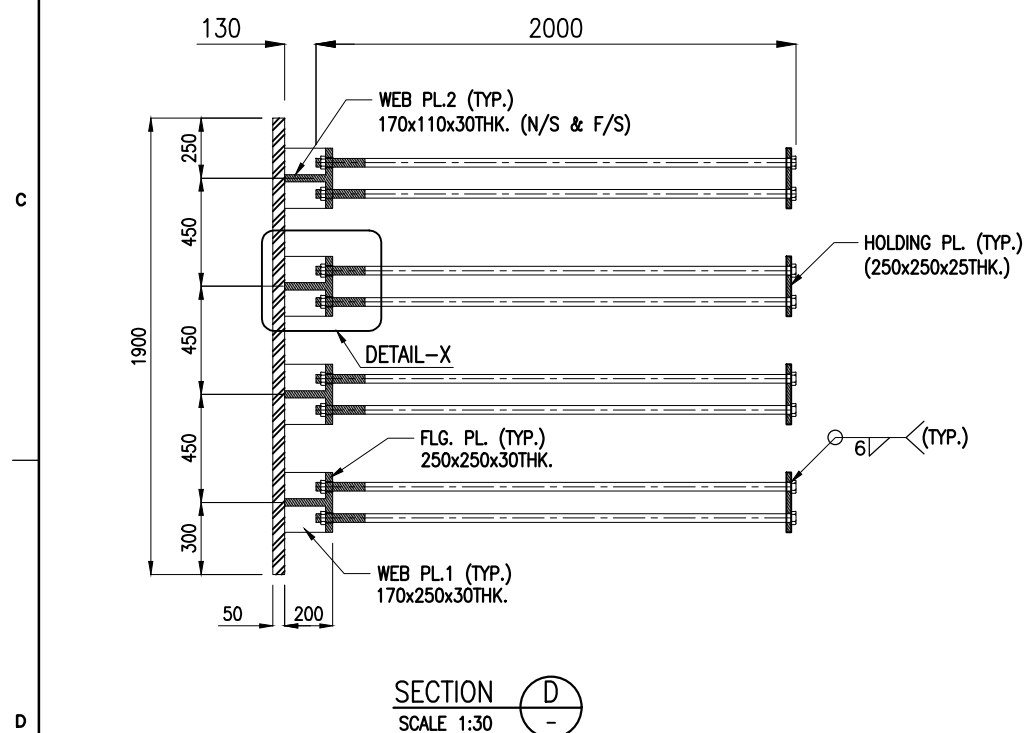
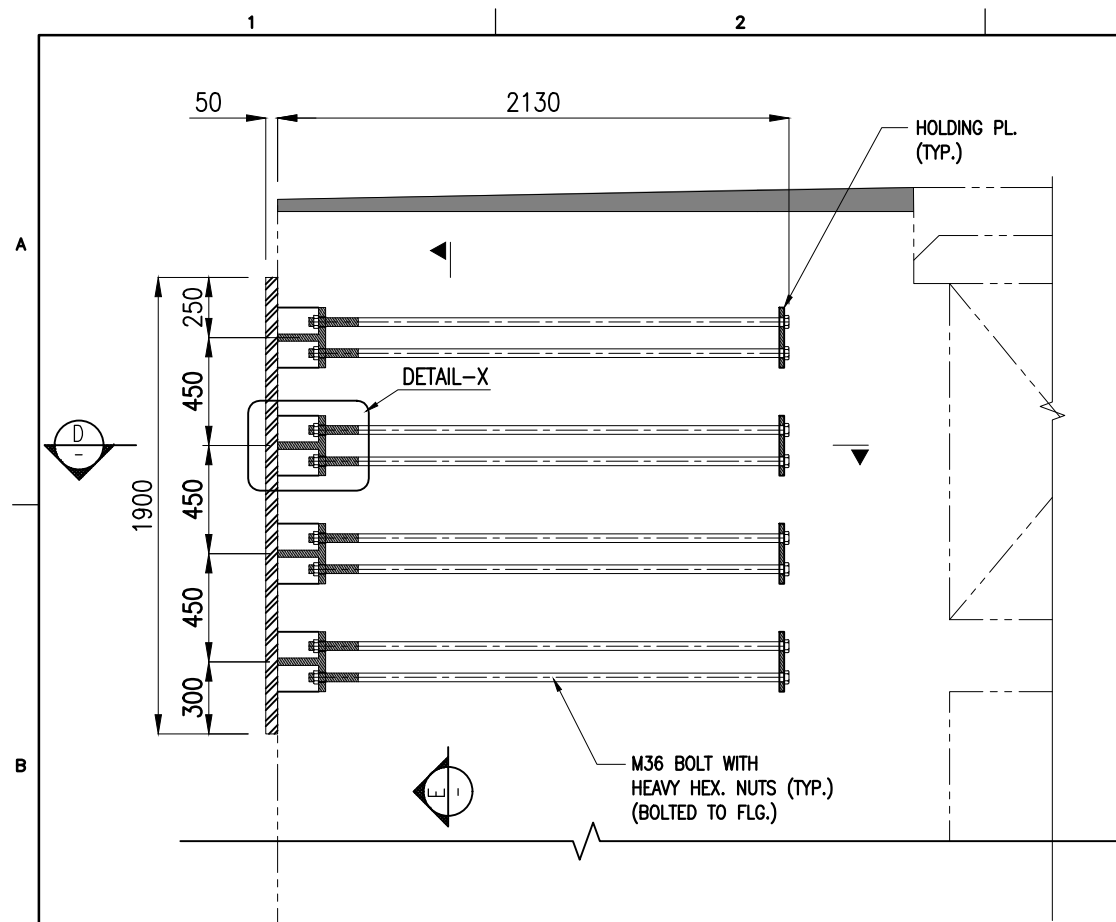
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002
4. THE GUIDE PIN PILE AND CONNECTIONS TO JETTY SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS 2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 345 MPa.
5. ALL WELDING SHALL BE FULL PENETRATION BUTT WELD AND SHALL BE IN ACCORDANCE WITH AWS D1.1.
6. ANCHOR BOLTS SHALL CONFORM TO ASTM A325 AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563, GRADE C OR D AND SHALL BE HEAVY HEX. TYPE. BOLTS AND NUTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH A153 U.N.O.
7. THE FABRICATION OF STEEL CONNECTIONS/CONCRETE BEAM BETWEEN THE GUIDE PIN PILE AND DECK SHALL BE CARRIED OUT AFTER THE ERECTION OF GUIDE PIN PILE/SURVEY.

ERECTION SEQUENCE:



1. ERECTION OF GUIDE PIN PILE WITH COMPLETE REINFORCEMENT AND CONCRETE.
2. WELDING OF HORIZONTAL MAIN PLATES (4NOS.)
3. INSERT AND WELDING OF VERTICAL PLATES (2NOS.)
4. WELDING OF SIDE PLATES (IN PIECES).
5. WELDING OF HORIZONTAL STIFFENER PLATES AT TOP & BOTTOM.

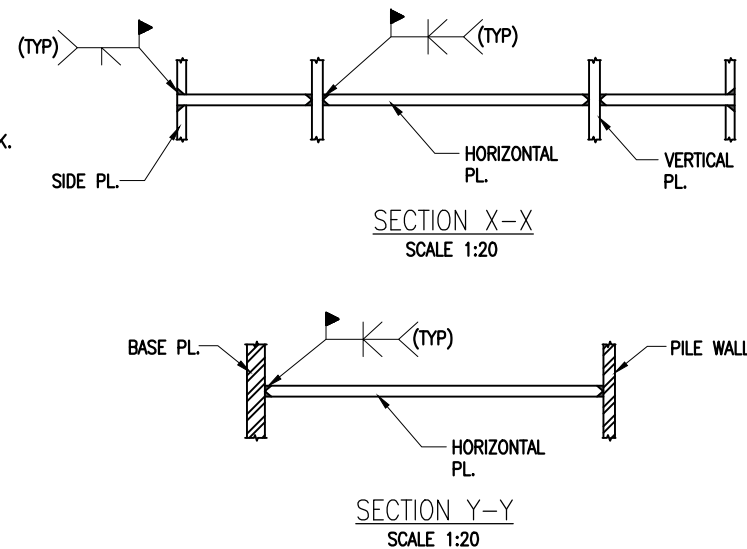
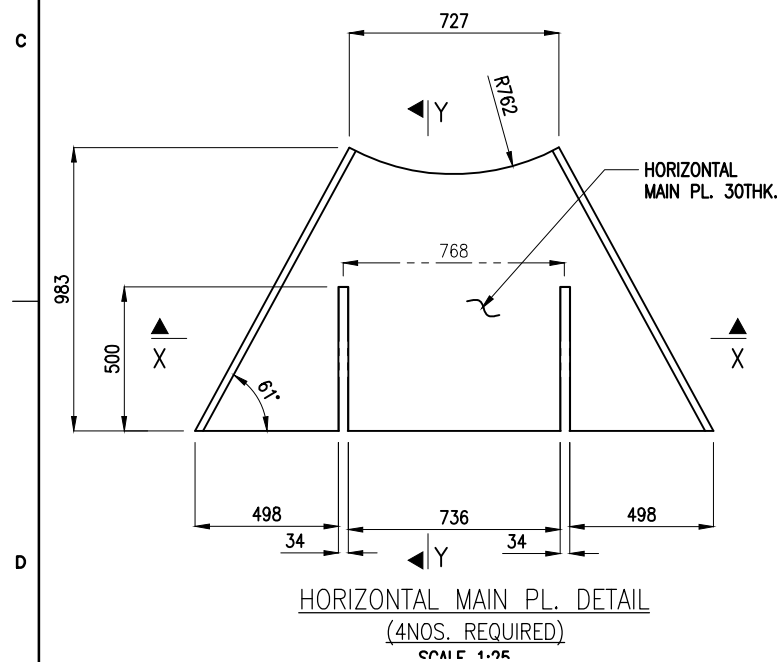
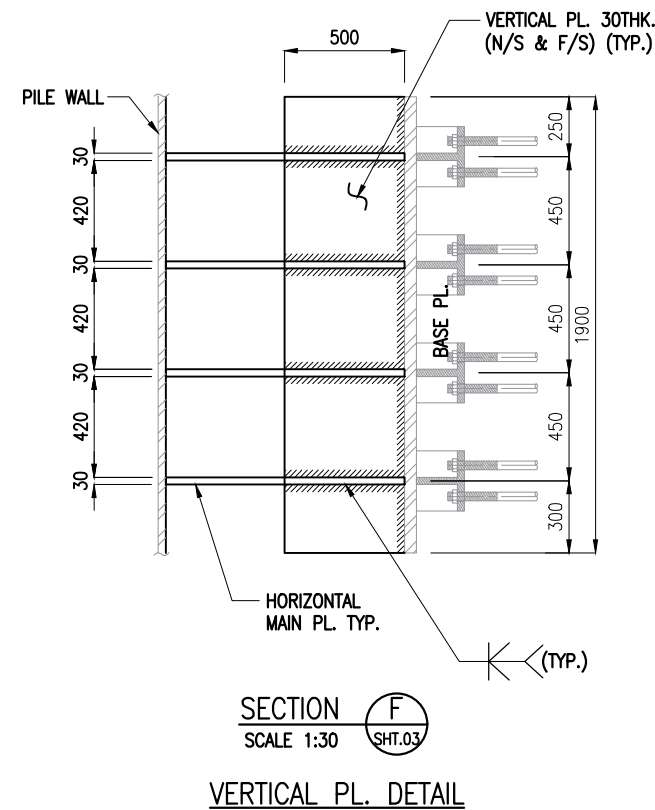
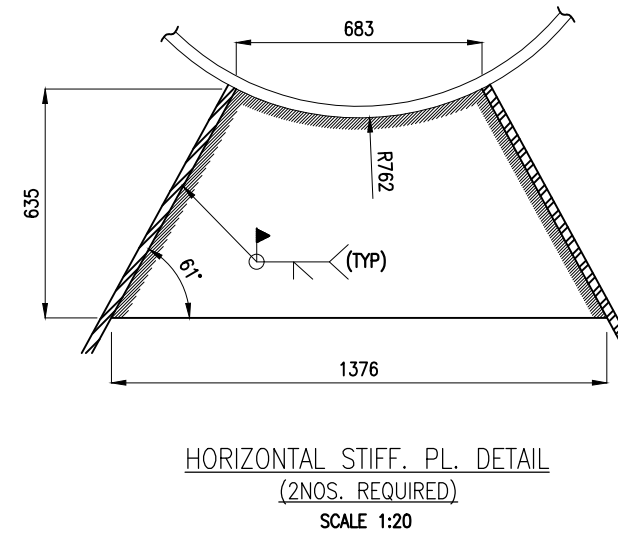
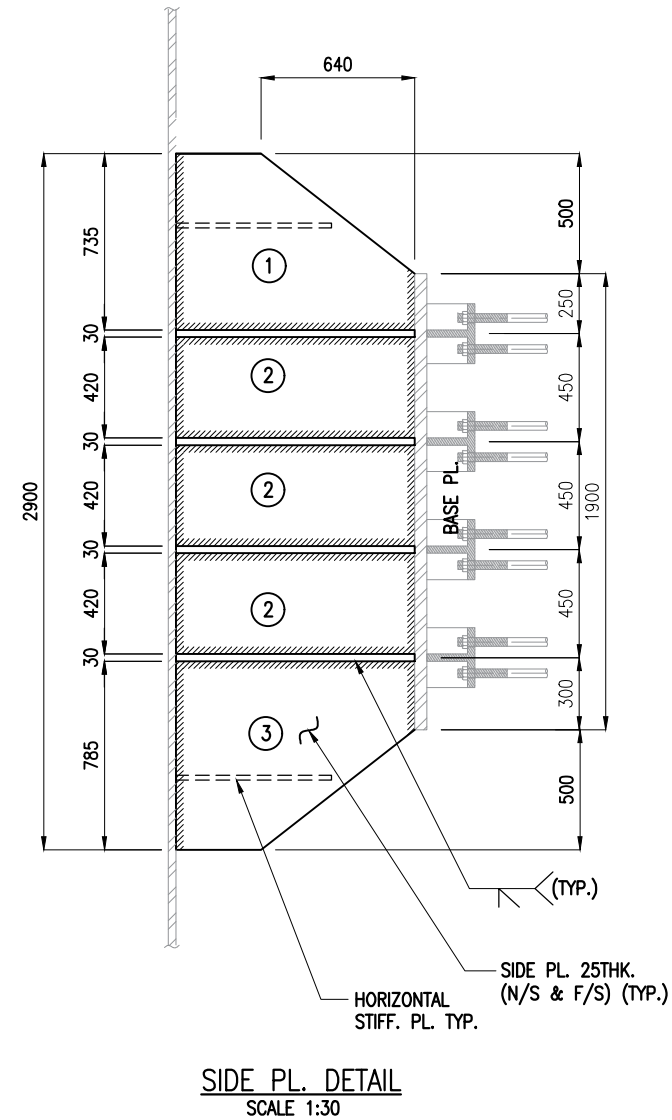
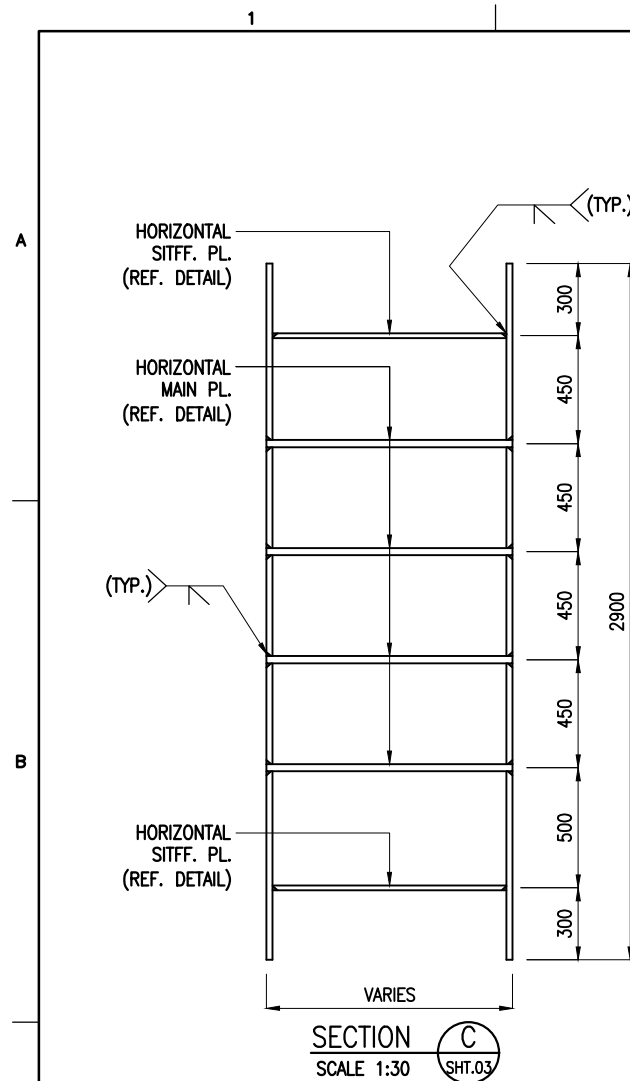
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 3 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-211-03		DATE: 20.05.26		REV: B



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002
- THE GUIDE PIN PILE AND CONNECTIONS TO JETTY SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS 2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 345 MPa.
- ALL WELDING SHALL BE FULL PENETRATION BUTT WELD AND SHALL BE IN ACCORDANCE WITH AWS D1.1.
- ANCHOR BOLTS SHALL CONFORM TO ASTM A325 AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563, GRADE C OR D AND SHALL BE HEAVY HEX. TYPE. BOLTS AND NUTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH A153 U.N.O.

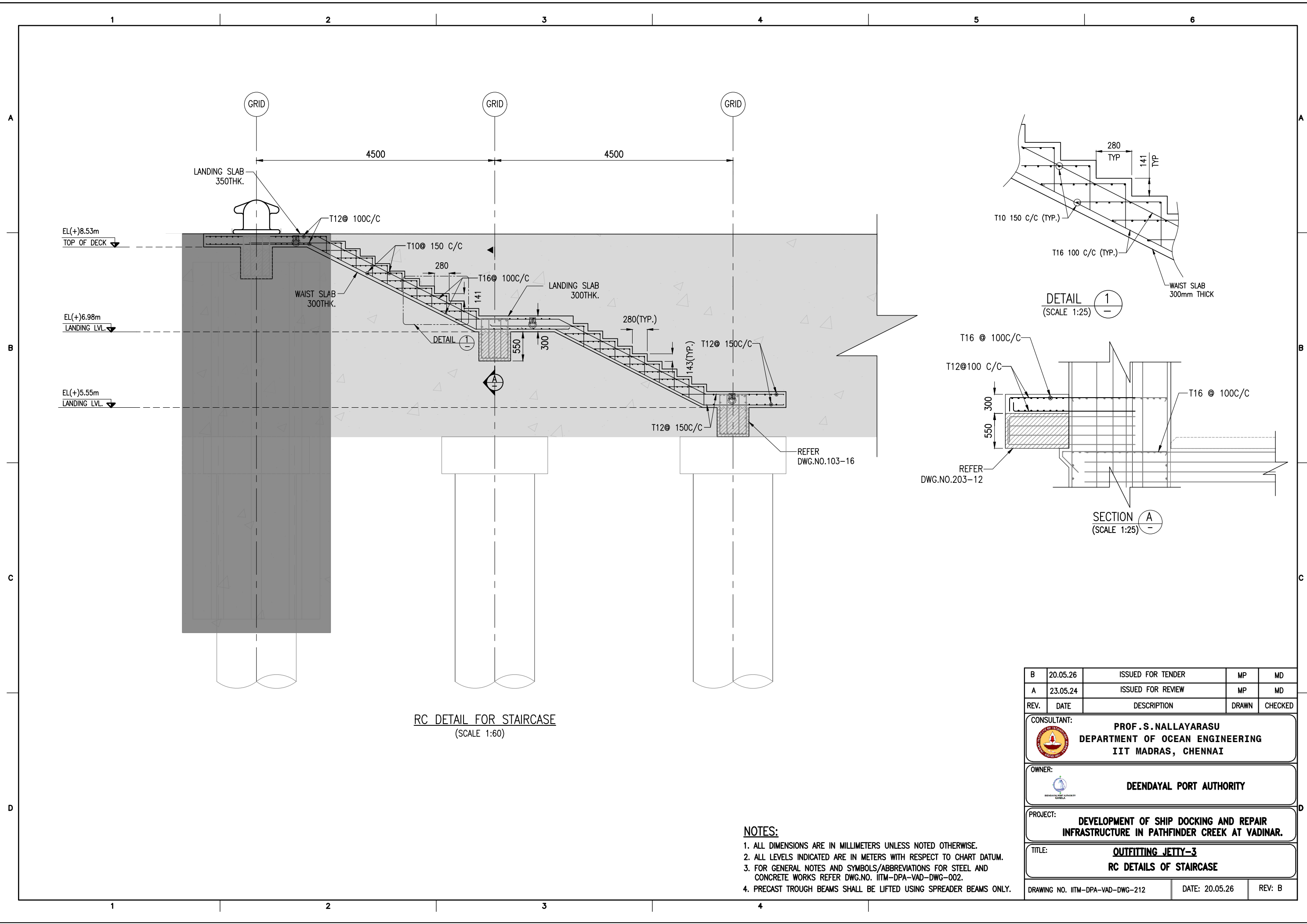
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
OUTFITTING JETTY-3 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 4 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-211-04			DATE: 20.05.26	REV: B



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002
- THE GUIDE PIN PILE AND CONNECTIONS TO JETTY SHALL BE FABRICATED USING STRUCTURAL STEEL AS PER IS 2062 GRADE E350 OR EQUIVALENT WITH MINIMUM YIELD STRENGTH OF 345 MPa.
- ALL WELDING SHALL BE FULL PENETRATION BUTT WELD AND SHALL BE IN ACCORDANCE WITH AWS D1.1.
- ANCHOR BOLTS SHALL CONFORM TO ASTM A325 AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563, GRADE C OR D AND SHALL BE HEAVY HEX. TYPE. BOLTS AND NUTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH A153 U.N.O.

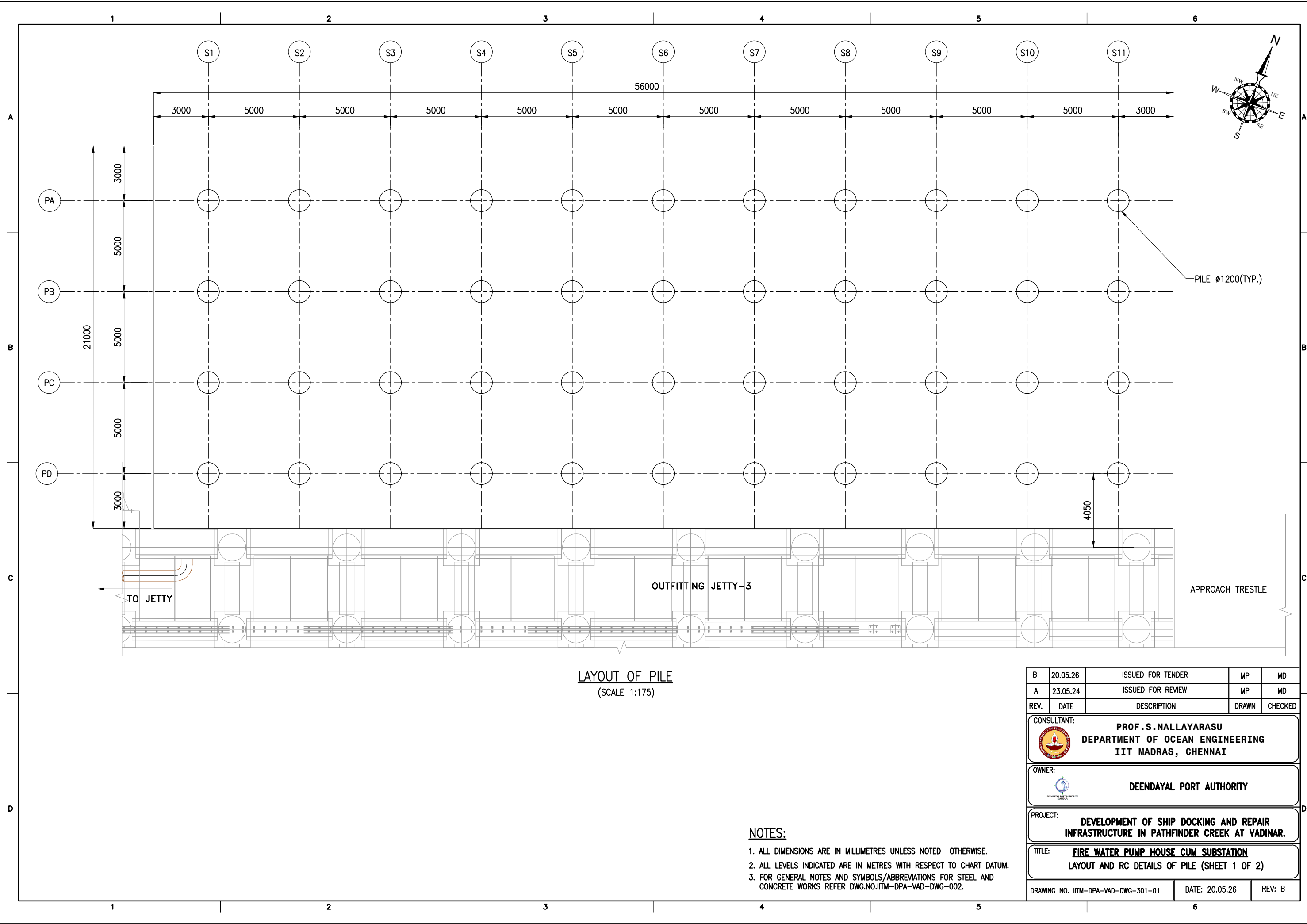
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 LAYOUT & DETAILS OF GUIDE PIN PILE (SHEET 5 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-211-05		DATE: 20.05.26		REV: B



RC DETAIL FOR STAIRCASE
(SCALE 1:60)



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: OUTFITTING JETTY-3 RC DETAILS OF STAIRCASE				
DRAWING NO. IITM-DPA-VAD-DWG-212			DATE: 20.05.26	REV: B

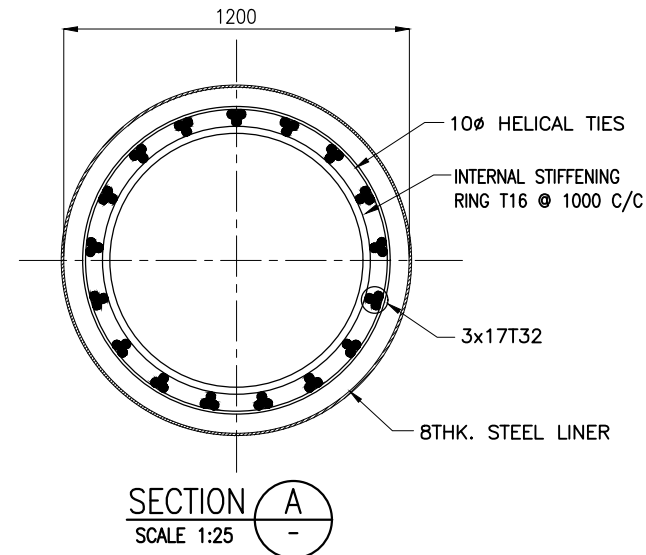


LAYOUT OF PILE
(SCALE 1:175)



- NOTES:
- 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - 2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
 - 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

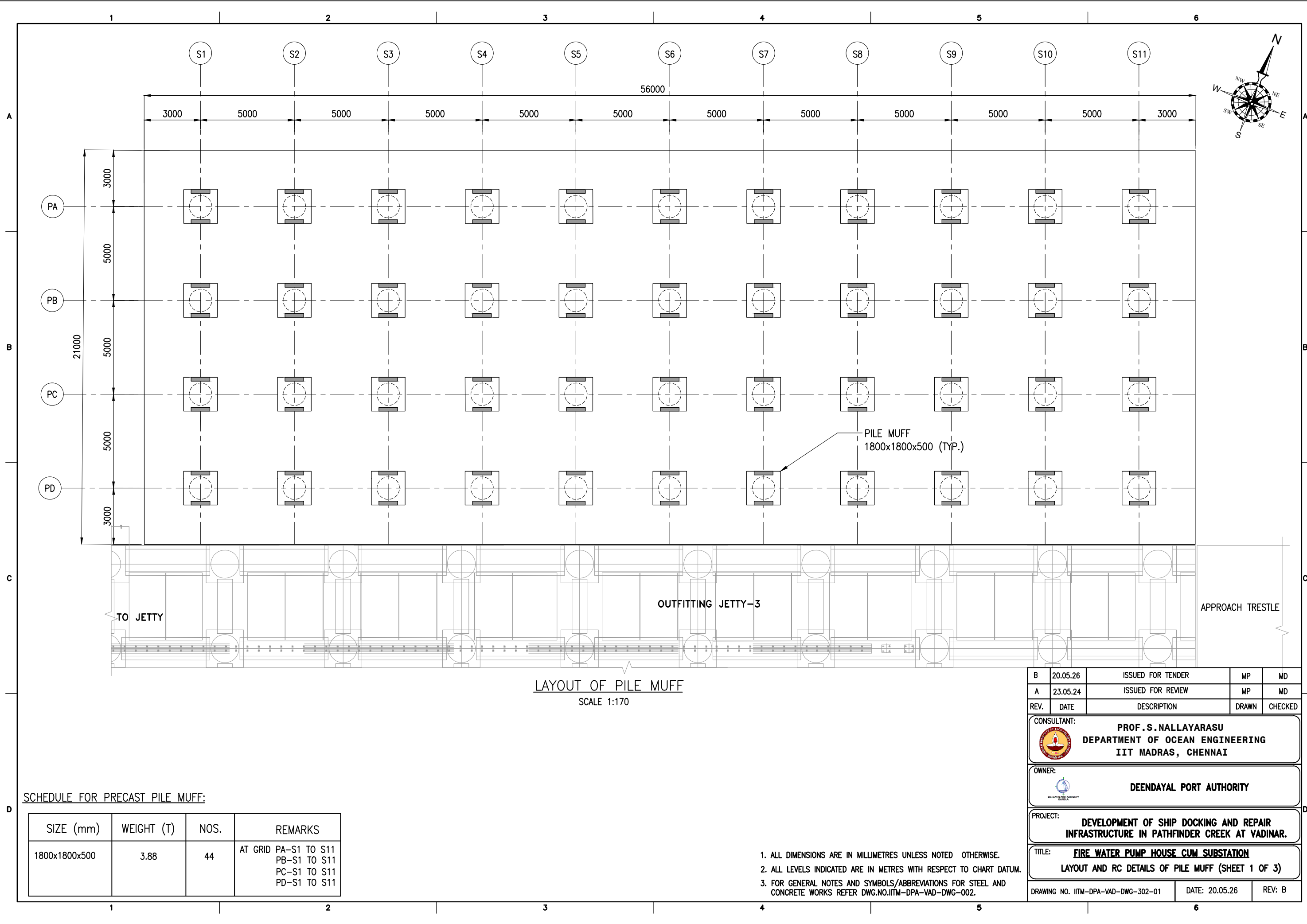
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-301-01			DATE: 20.05.26	REV: B

S.NO	GRID	PILE ϕ (mm)	NO.OF PILES	SEABED LEVEL (m)	ROCK LVL.(m)	BOTTOM OF LINER (m)	PILE CUT-OFF LVL. (m)	PILE TOE LVL. (m)	VERTICAL PILE LOAD (T)	HORIZONTAL PILE LOAD (T)
1	PA TO PD	1200	44	-10.00 TO -13.00	-22	-23.00	+6.83	-25.6	400	25
TOTAL			44							



1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.ITM-DPA-VAD-DWG-002-01
4. BARS TO BE BENT AFTER THE PLACING OF PILEMUFF AND PRECAST BEAM.
5. LINER SHALL BE DRIVEN TO REFUSAL.
6. THE SEABED AND ROCK LEVELS ARE BASED ON EXISTING GEOTECHNICAL DATA.
THE ACTUAL ELEVATIONS SHALL BE ESTABLISHED BY SITE SPECIFIC BORE HOLE INVESTIGATION OR DURING PILING.
7. PILE SHALL BE SOCKETED INTO HARD/WEATHERED ROCK.
THE MINIMUM SOCKET LENGTH SHALL BE AS FOLLOWS:
 - a) 6 TIMES THE DIAMETER IN TO SOFT OR WEATHERED ROCK.
 - b) 3 TIMES THE DIAMETER IN TO HARD ROCK.
 - c) A COMBINATION OF SOFT/WEATHERED AND HARD/INTACT ROCK THE DEPTH TO BE DETERMINED BASED ON CASE TO CASE BASIS BY THE ENGINEER'S REPRESENTATIVE.
THE DECISION OF ENGINEER'S REPRESENTATIVE/CONSULTANT IS FINAL.
7. THE ROCK LEVEL SHALL BE DETERMINED BASED ON THE FOLLOWING CRITERIA.
 - a). SPT EXCEEDING
 - (i) INTACT/HARD ROCK - 100
 - (ii) WEATHERED/SOFT ROCK - 50
 - b). CHISELLING/BORING ENERGY CALCULATED AS PER IRC78.
 - (i) INTACT/HARD ROCK - $250 \text{ Tm/m}^2/\text{cm}$
 - (ii) WEATHERED/SOFT ROCK - $150 \text{ Tm/m}^2/\text{cm}$
8. THE PILE TERMINATION LEVELS SHOWN IN THIS DRAWING IS APPROXIMATE AND MAY VARY DEPENDING ON HARD ROCK LEVELS.
9. STRUCTURAL STEEL FOR LINER SHALL CONFORM TO IS:2062 GRADE E250.
10. PILE SHALL BE CAST 600mm HIGHER THAN THE PILE CUT-OFF LEVEL AND OVERFLOW OF CONCRETE SHALL BE OBSERVED AND THE ADDITIONAL LENGTH OF PILE SHALL BE CUT AFTER 28 DAYS OF CASTING THE PILE.

B	23.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: <u>FIRE WATER PUMP HOUSE CUM SUBSTATION</u> LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-301-02			DATE: 20.05.26	REV: B





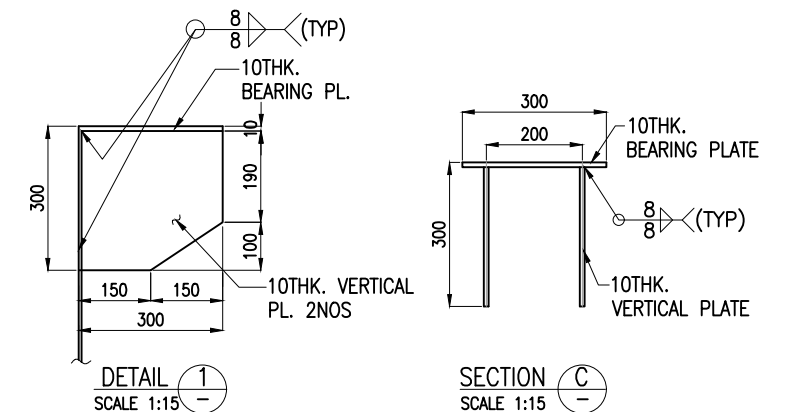
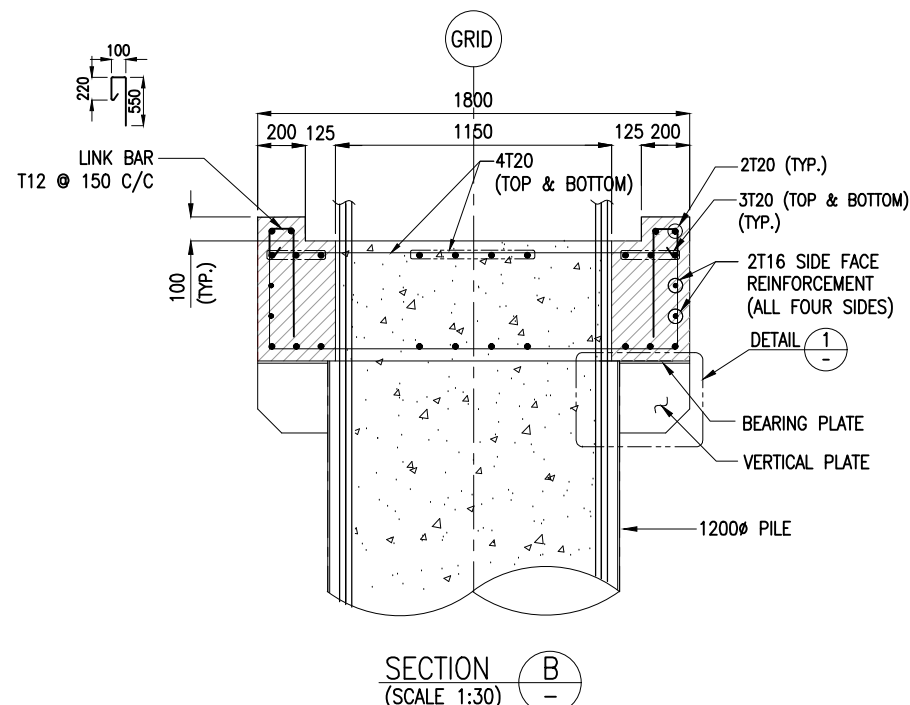
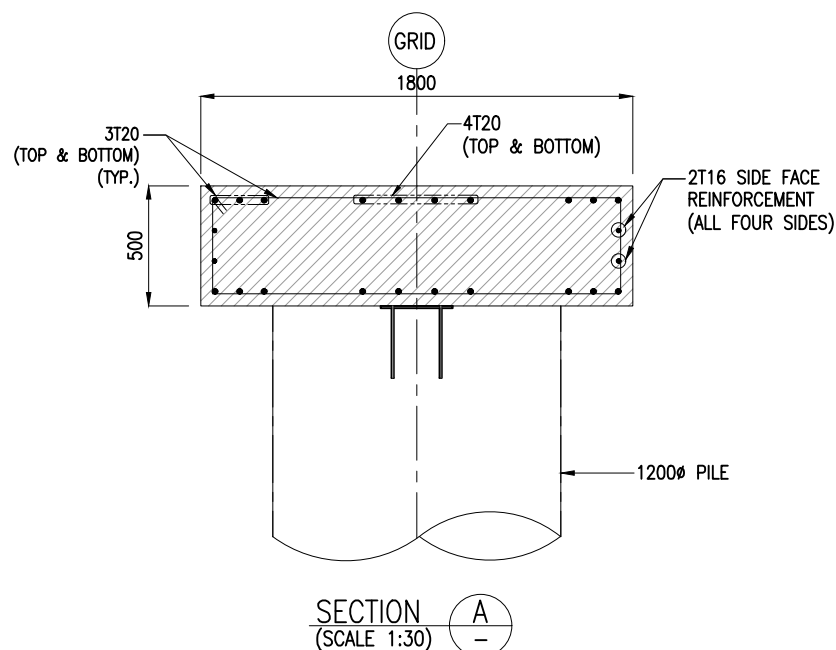
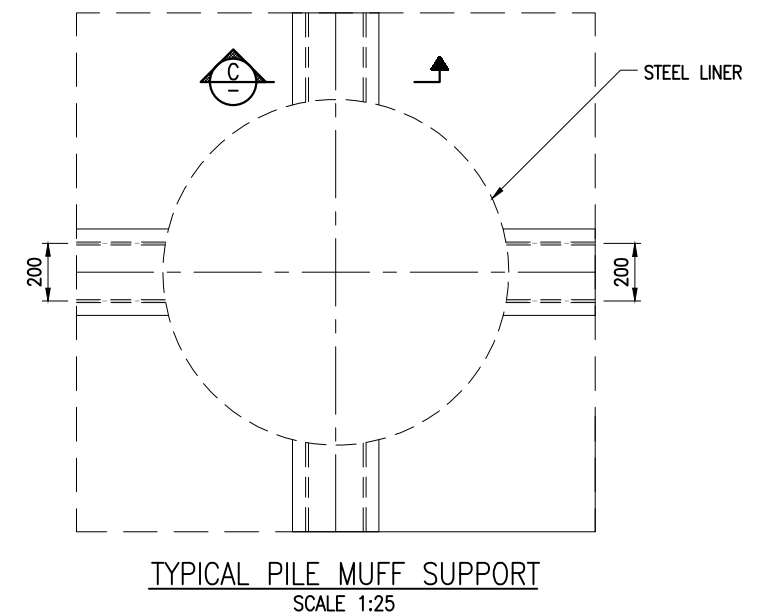
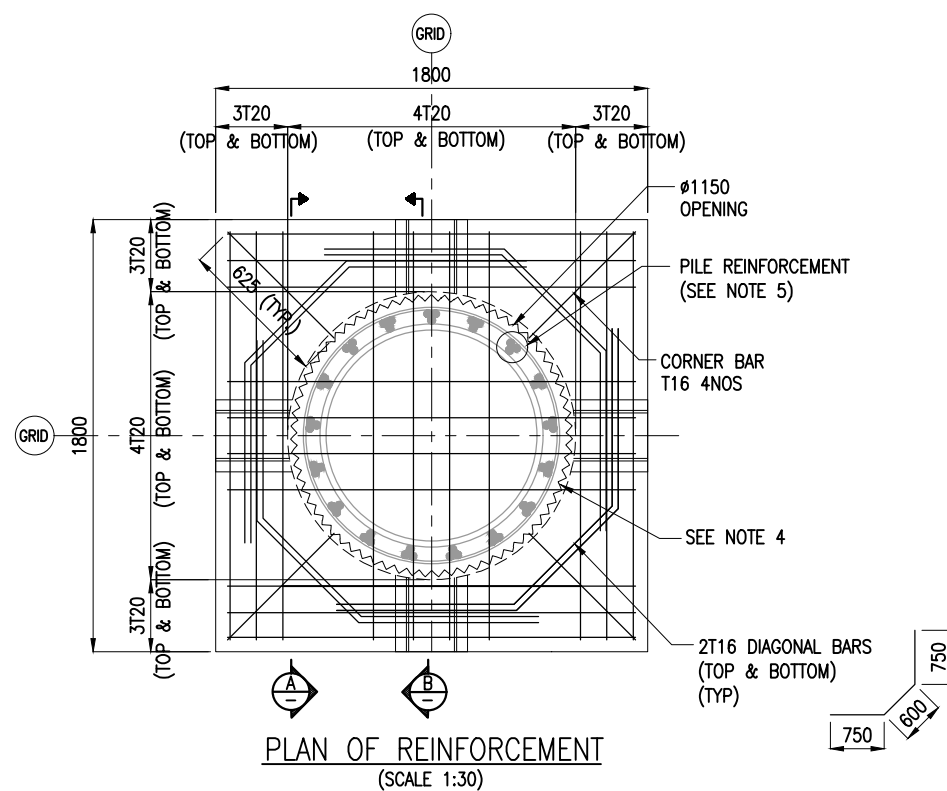
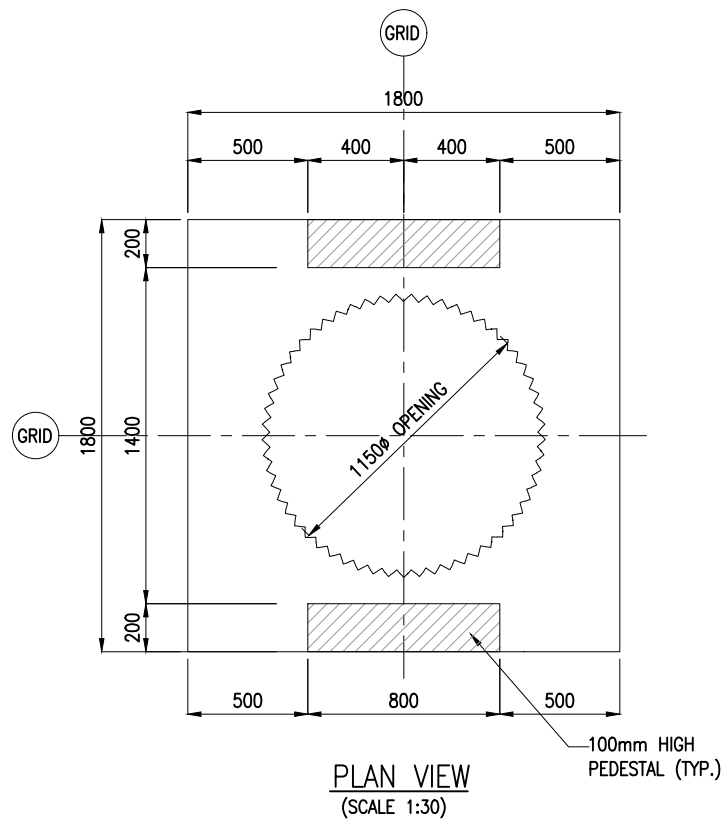
LAYOUT OF PILE MUFF
SCALE 1:170

SCHEDULE FOR PRECAST PILE MUFF:

SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
1800x1800x500	3.88	44	AT GRID PA-S1 TO S11 PB-S1 TO S11 PC-S1 TO S11 PD-S1 TO S11

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 1 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-302-01			DATE: 20.05.26	REV: B

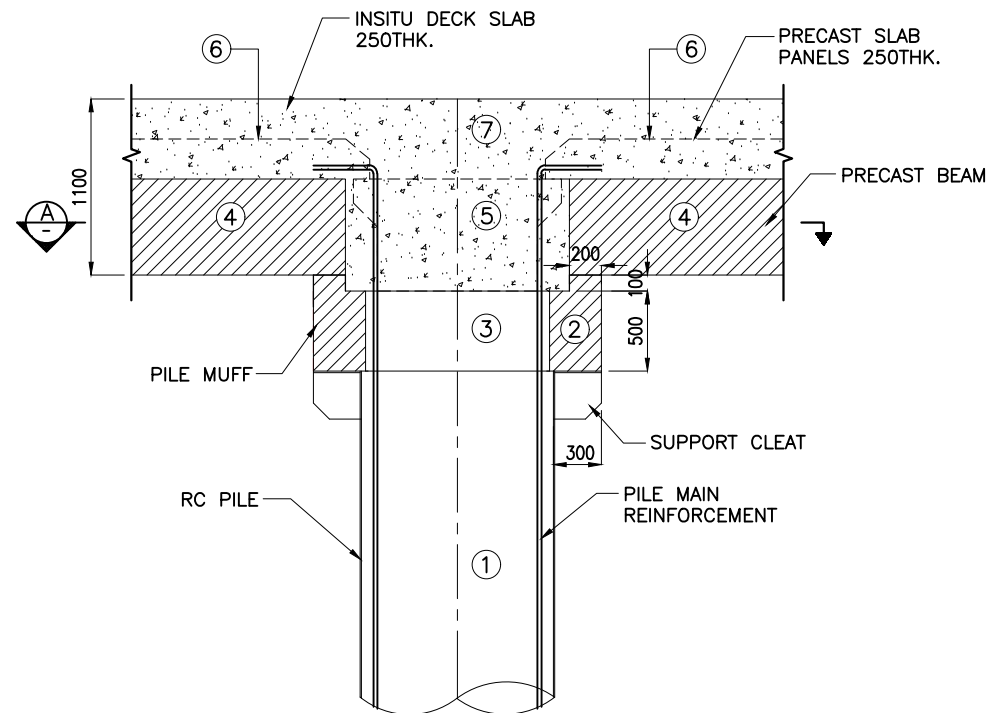


PILE MUFF
1800x1800x500

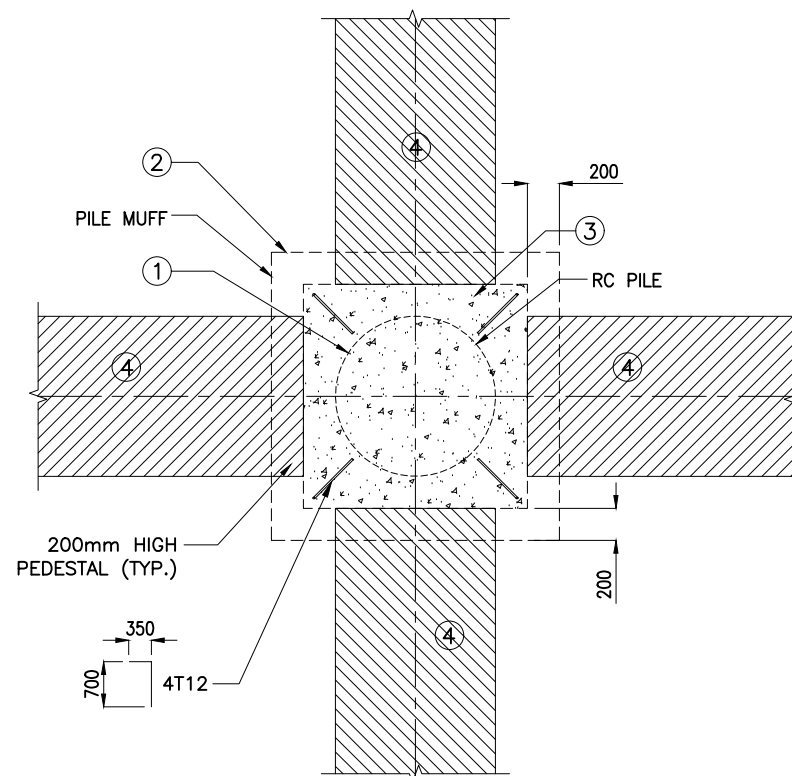
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-MBPT-PP-FWPH-DWG-002.
- INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
- PILE REINFORCEMENT SHALL BE BENT AFTER PLACEMENT OF PRECAST PILE MUFF.
- PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 2 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-302-02		DATE: 20.05.26		REV: B



TYPICAL PILE HEAD CONSTRUCTION SEQUENCE
(SCALE 1:45)



SECTION A
(SCALE 1:45)

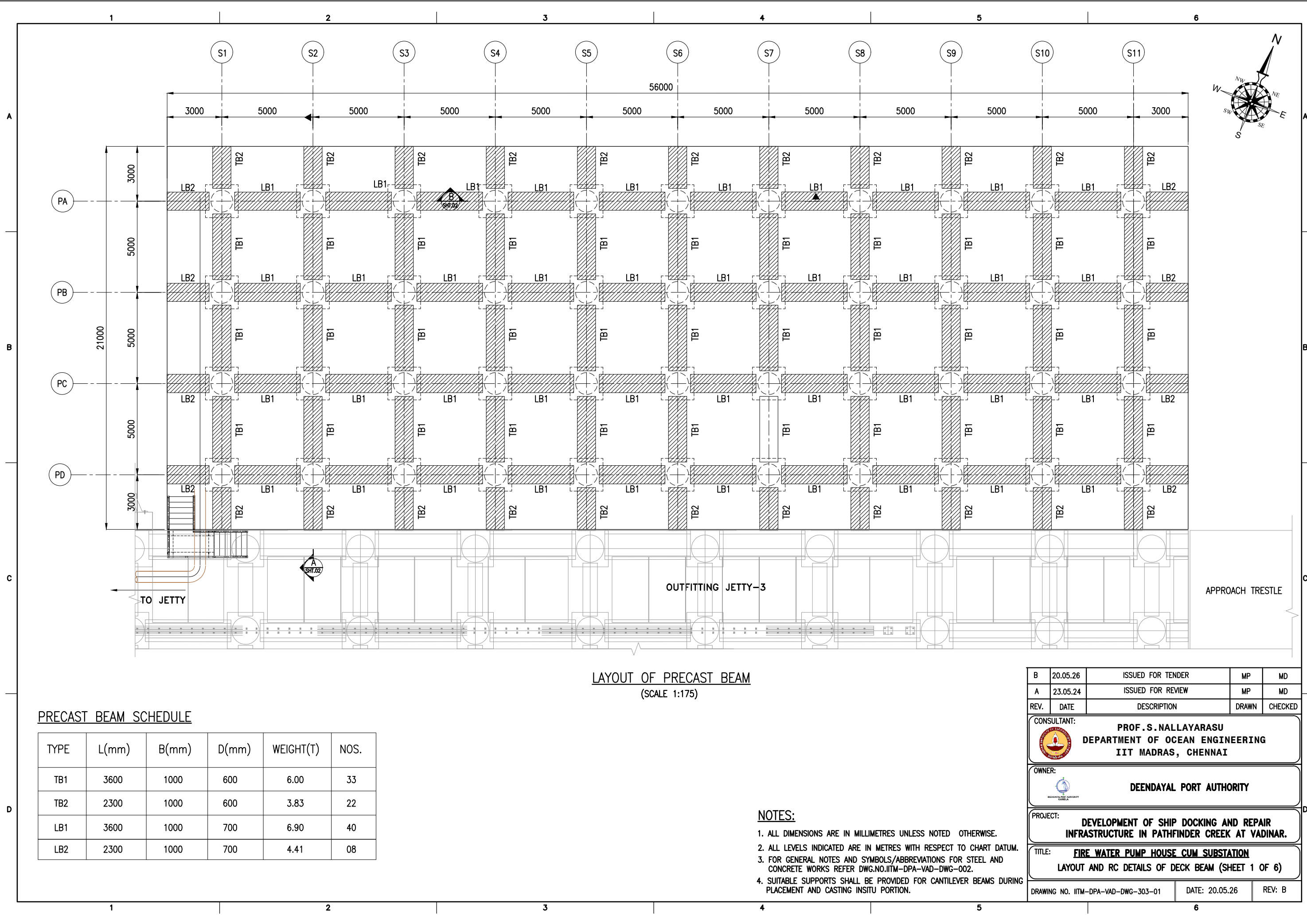
CONSTRUCTION SEQUENCE

1. CONSTRUCTION OF BORED RC PILE
2. PILE MUFF PLACEMENT
3. PILE MUFF INFILL
4. PLACEMENT OF PRECAST BEAM
5. IN-FILL AT JUNCTION
6. PLACEMENT OF PRECAST SLAB
7. FINAL IN-SITU SLAB

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 3 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-302-03		DATE: 20.05.26		REV: B





LAYOUT OF PRECAST BEAM
(SCALE 1:175)

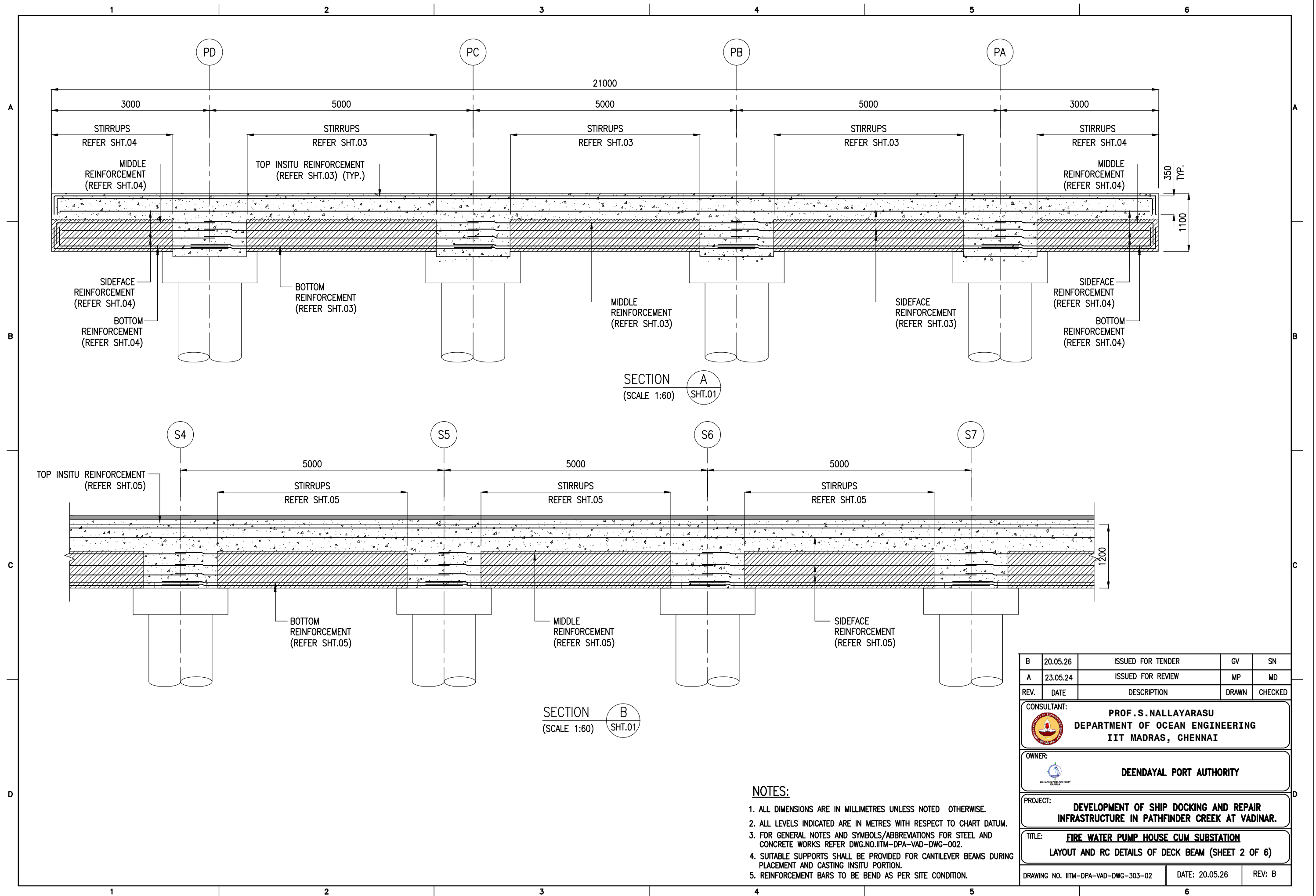
PRECAST BEAM SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS.
TB1	3600	1000	600	6.00	33
TB2	2300	1000	600	3.83	22
LB1	3600	1000	700	6.90	40
LB2	2300	1000	700	4.41	08

NOTES:

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- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
- SUITABLE SUPPORTS SHALL BE PROVIDED FOR CANTILEVER BEAMS DURING PLACEMENT AND CASTING INSITU PORTION.

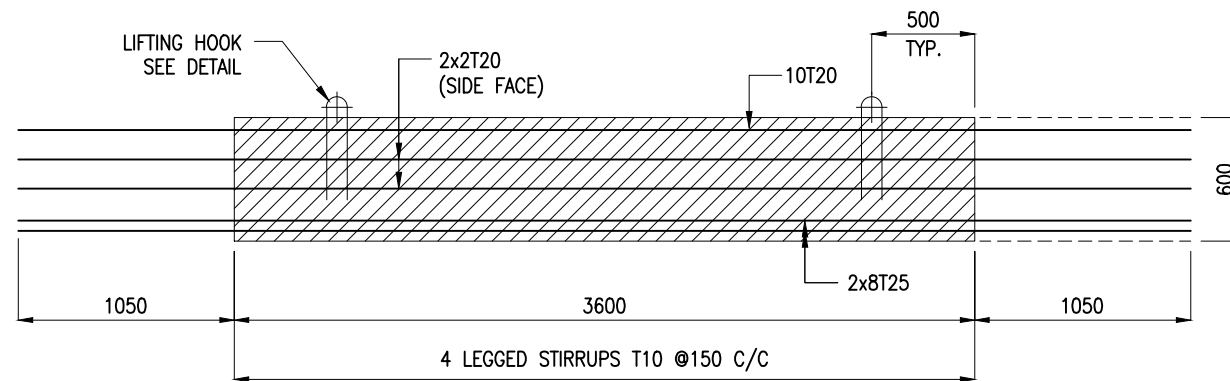
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A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK BEAM (SHEET 1 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-303-01			DATE: 20.05.26	REV: B



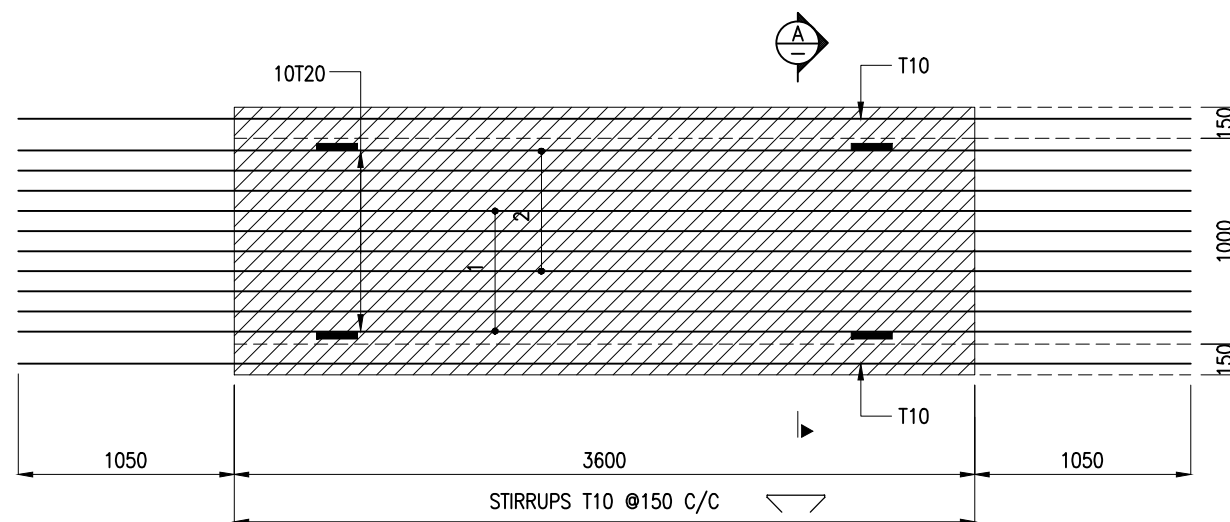
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
4. SUITABLE SUPPORTS SHALL BE PROVIDED FOR CANTILEVER BEAMS DURING PLACEMENT AND CASTING INSITU PORTION.
5. REINFORCEMENT BARS TO BE BEND AS PER SITE CONDITION.

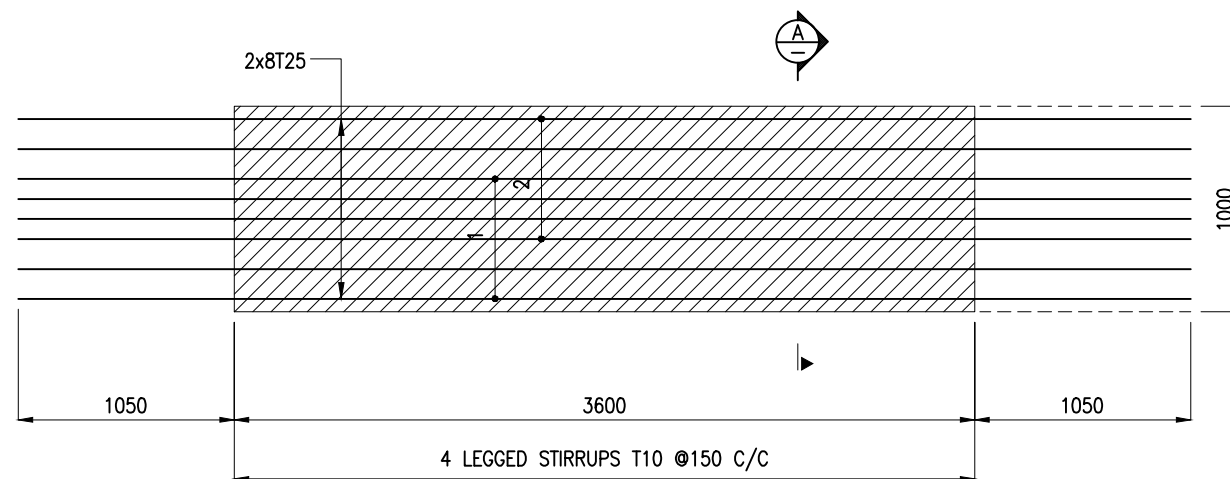
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A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK BEAM (SHEET 2 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-303-02			DATE: 20.05.26	REV: B



LONGITUDINAL SECTION OF PRECAST BEAM
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:40)

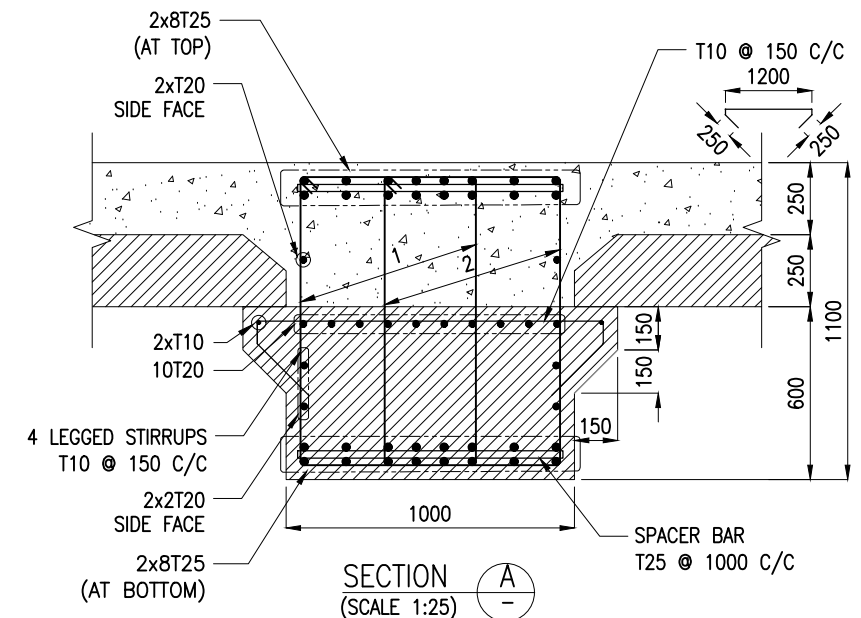


TOP VIEW OF PRECAST BEAM
(SCALE 1:40)

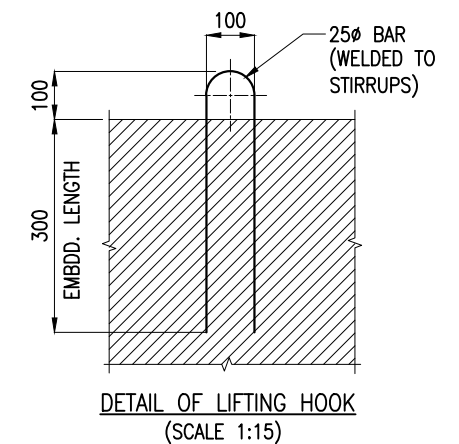


BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:40)

RC DETAILS FOR TRANSVERSE BEAMS (TB1)





SECTION A-A
(SCALE 1:25)

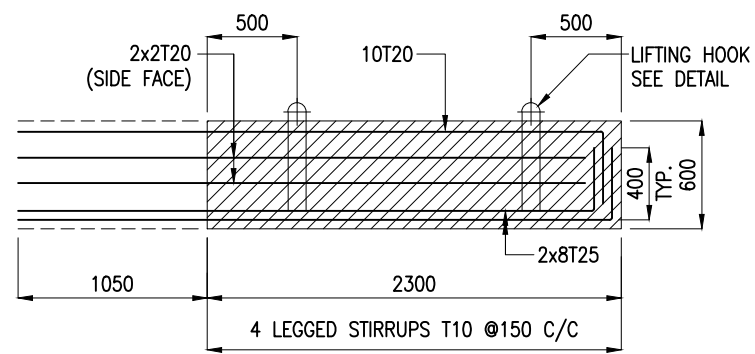


DETAIL OF LIFTING HOOK
(SCALE 1:15)

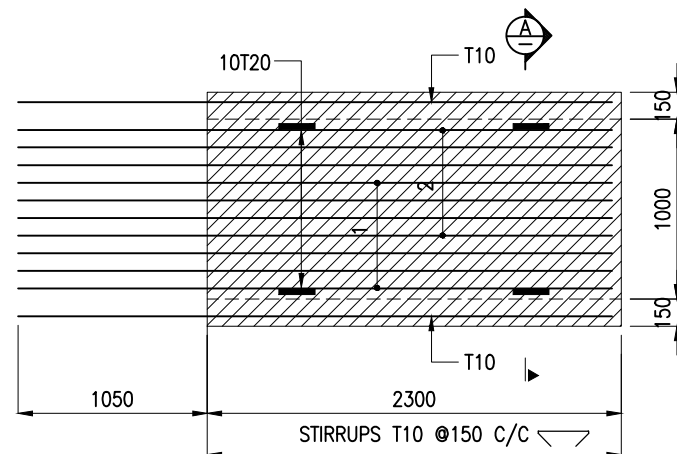
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

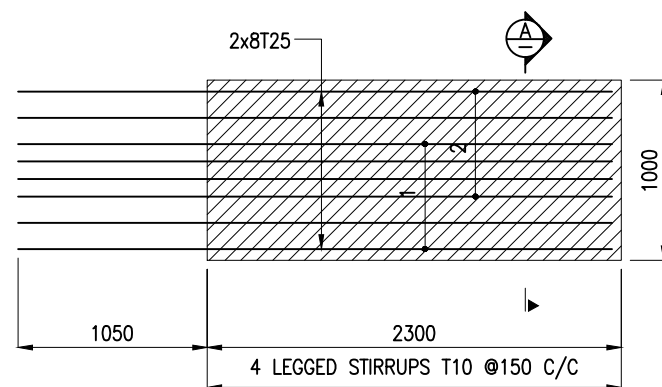
B	20.05.26	ISSUED FOR TENDER	MP	MD
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-303-03			DATE: 20.05.26	REV: B



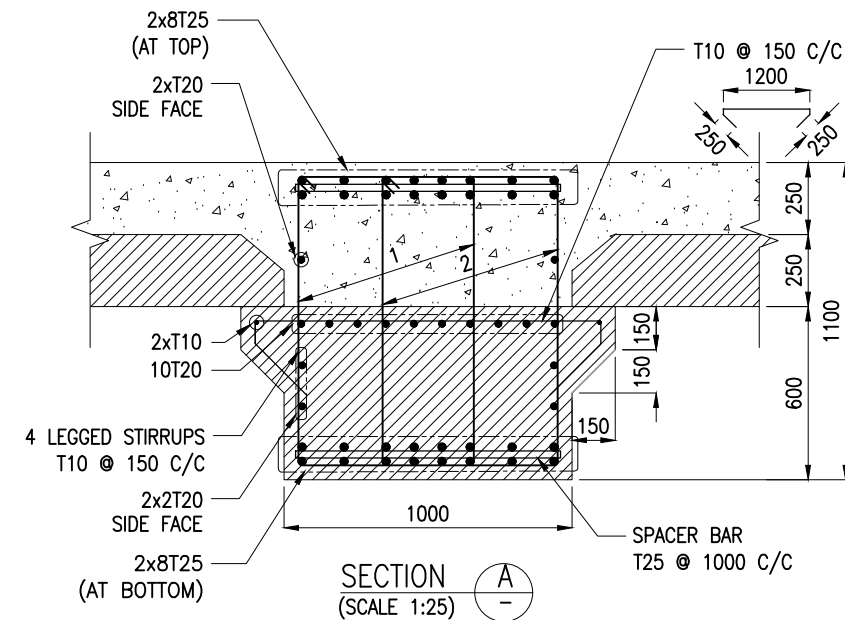
LONGITUDINAL SECTION OF PRECAST BEAM
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:40)



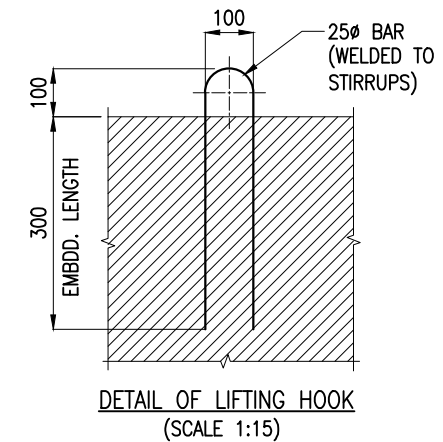
TOP VIEW OF PRECAST BEAM
(SCALE 1:40)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:40)
RC DETAILS FOR TRANSVERSE BEAMS (TB2)



SECTION A-A
(SCALE 1:25)

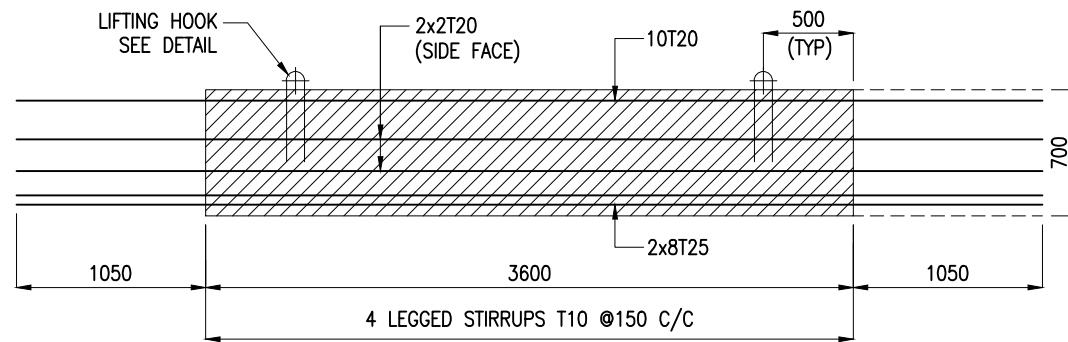


DETAIL OF LIFTING HOOK
(SCALE 1:15)

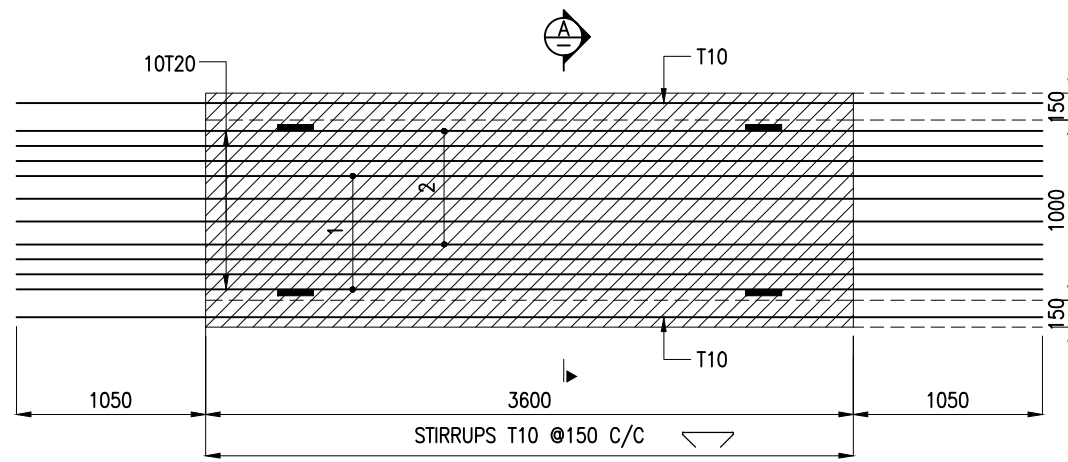
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

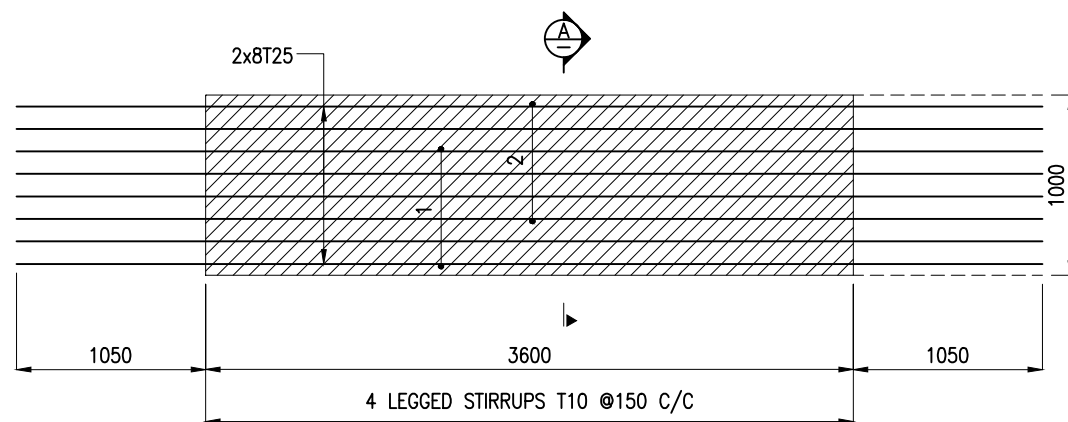
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-303-04			DATE: 20.05.26	REV: B



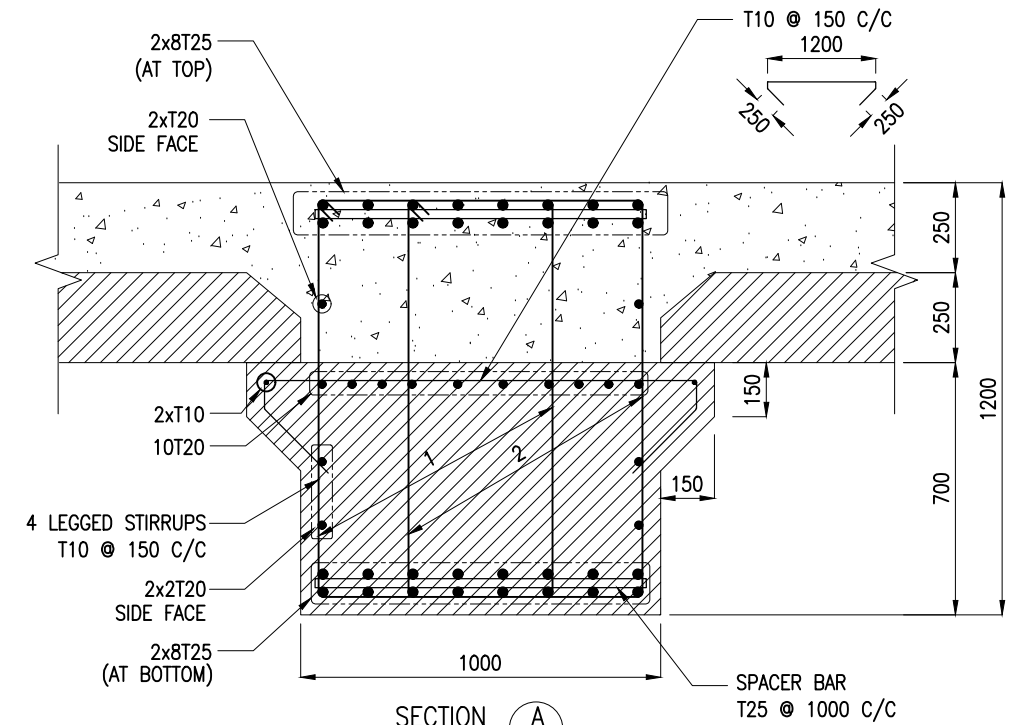
LONGITUDINAL SECTION OF PRECAST BEAM
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:40)



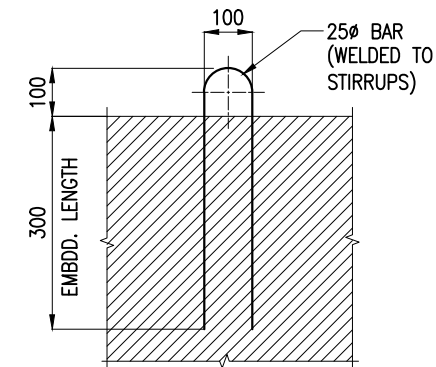
TOP VIEW OF PRECAST BEAM
(SCALE 1:40)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:40)
RC DETAILS FOR TRANSVERSE BEAMS (LB1)





SECTION A-A
(SCALE 1:20)

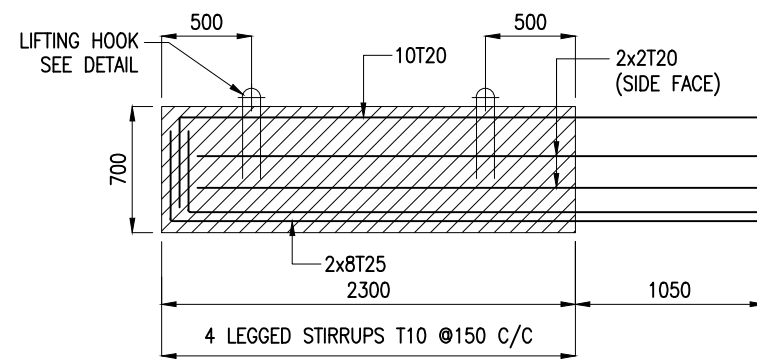


DETAIL OF LIFTING HOOK
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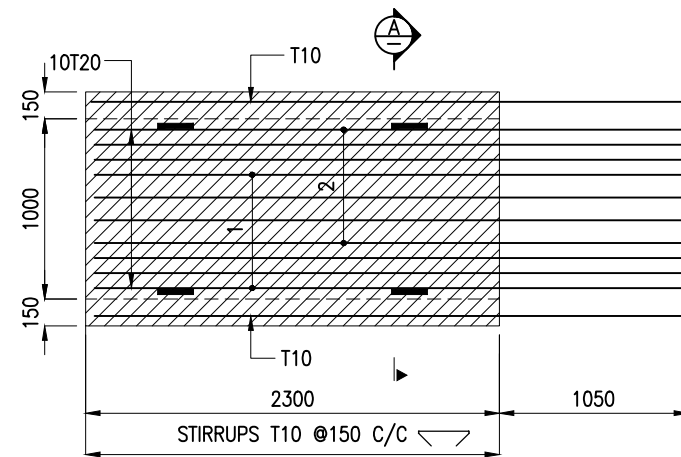
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

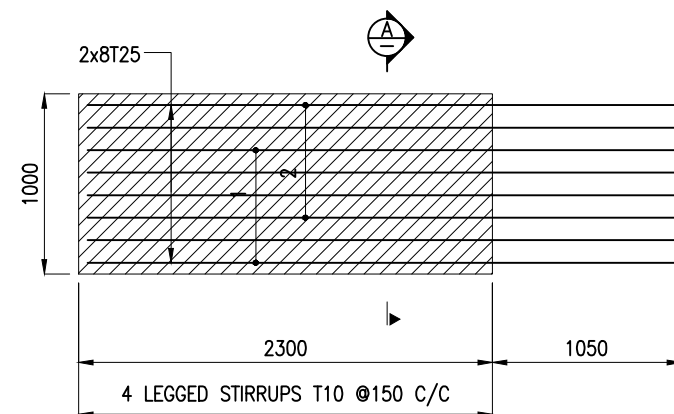
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-303-05			DATE: 20.05.26	REV: B



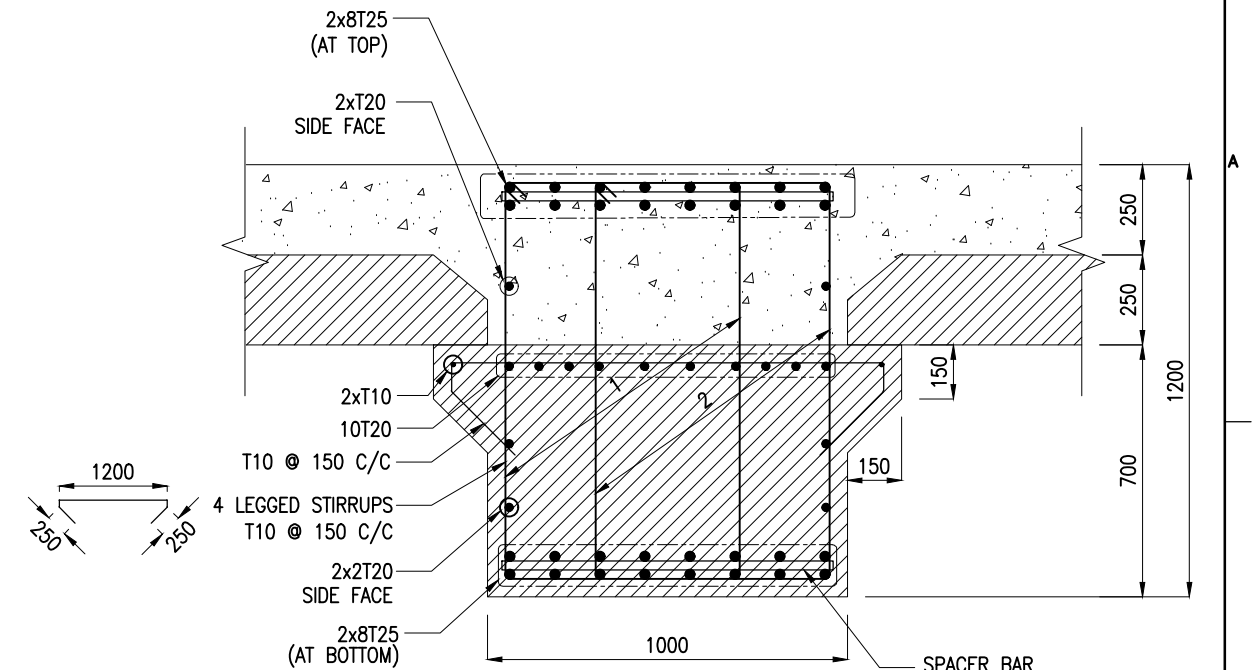
LONGITUDINAL SECTION OF PRECAST BEAM
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:40)



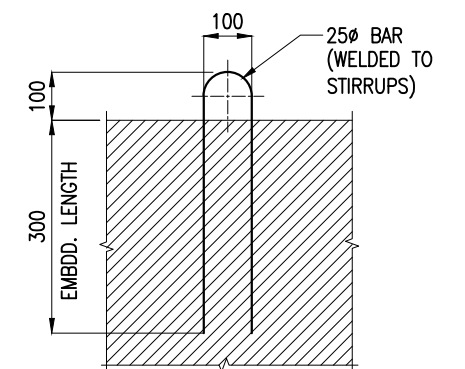
TOP VIEW OF PRECAST BEAM
(SCALE 1:40)



BOTTOM VIEW OF PRECAST BEAM
(SCALE 1:40)
RC DETAILS FOR TRANSVERSE BEAMS (LB2)



SECTION A-A
(SCALE 1:20)

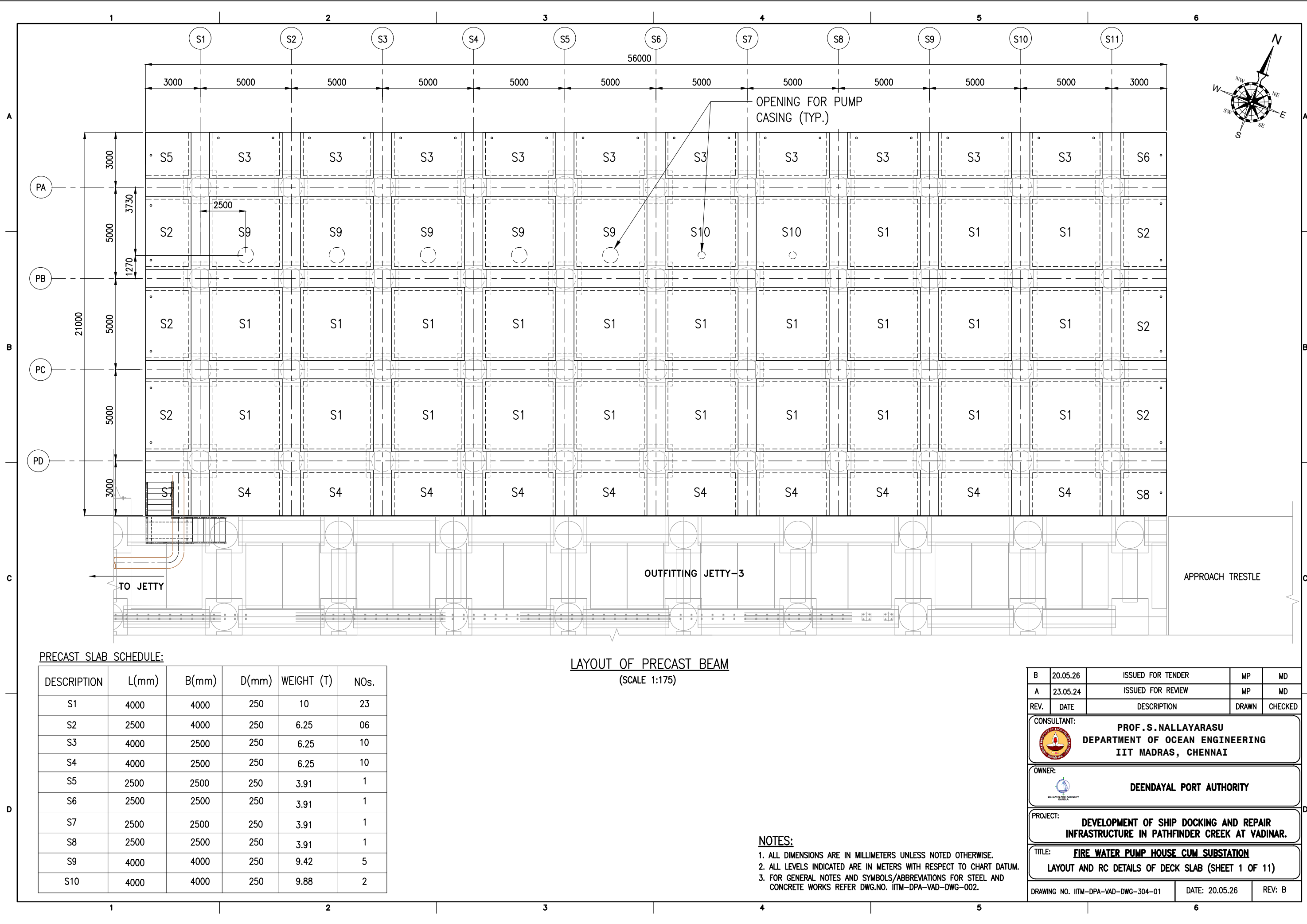


DETAIL OF LIFTING HOOK
(SCALE 1:15)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 6)				
DRAWING NO. IITM-DPA-VAD-DWG-303-06			DATE: 20.05.26	REV: B





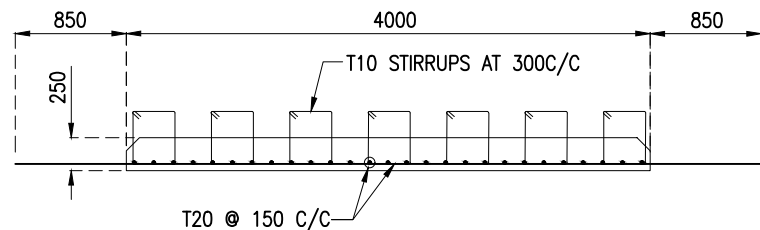
PRECAST SLAB SCHEDULE:

DESCRIPTION	L(mm)	B(mm)	D(mm)	WEIGHT (T)	NOs.
S1	4000	4000	250	10	23
S2	2500	4000	250	6.25	06
S3	4000	2500	250	6.25	10
S4	4000	2500	250	6.25	10
S5	2500	2500	250	3.91	1
S6	2500	2500	250	3.91	1
S7	2500	2500	250	3.91	1
S8	2500	2500	250	3.91	1
S9	4000	4000	250	9.42	5
S10	4000	4000	250	9.88	2

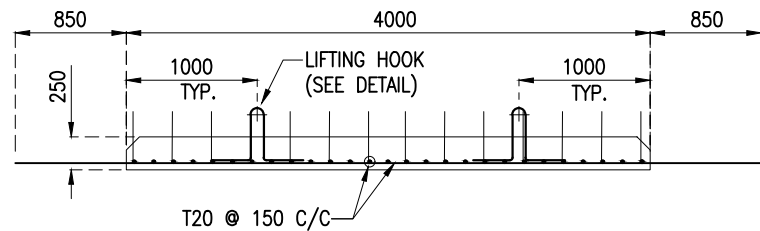
LAYOUT OF PRECAST BEAM
(SCALE 1:175)

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 - FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

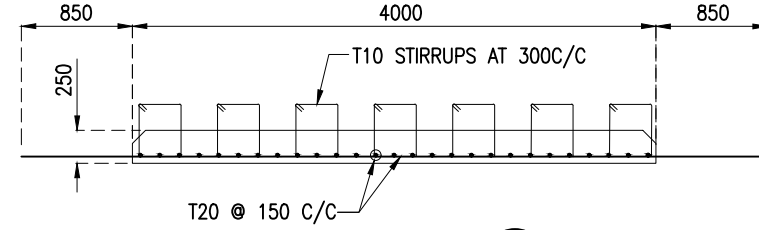
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 1 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-01			DATE: 20.05.26	REV: B



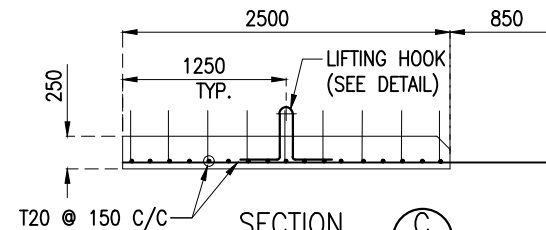
SECTION B
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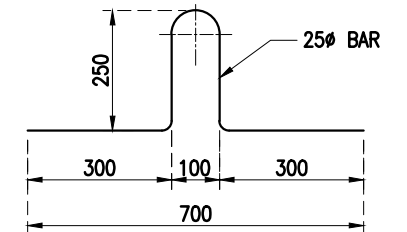
SECTION A
(SCALE 1:55)



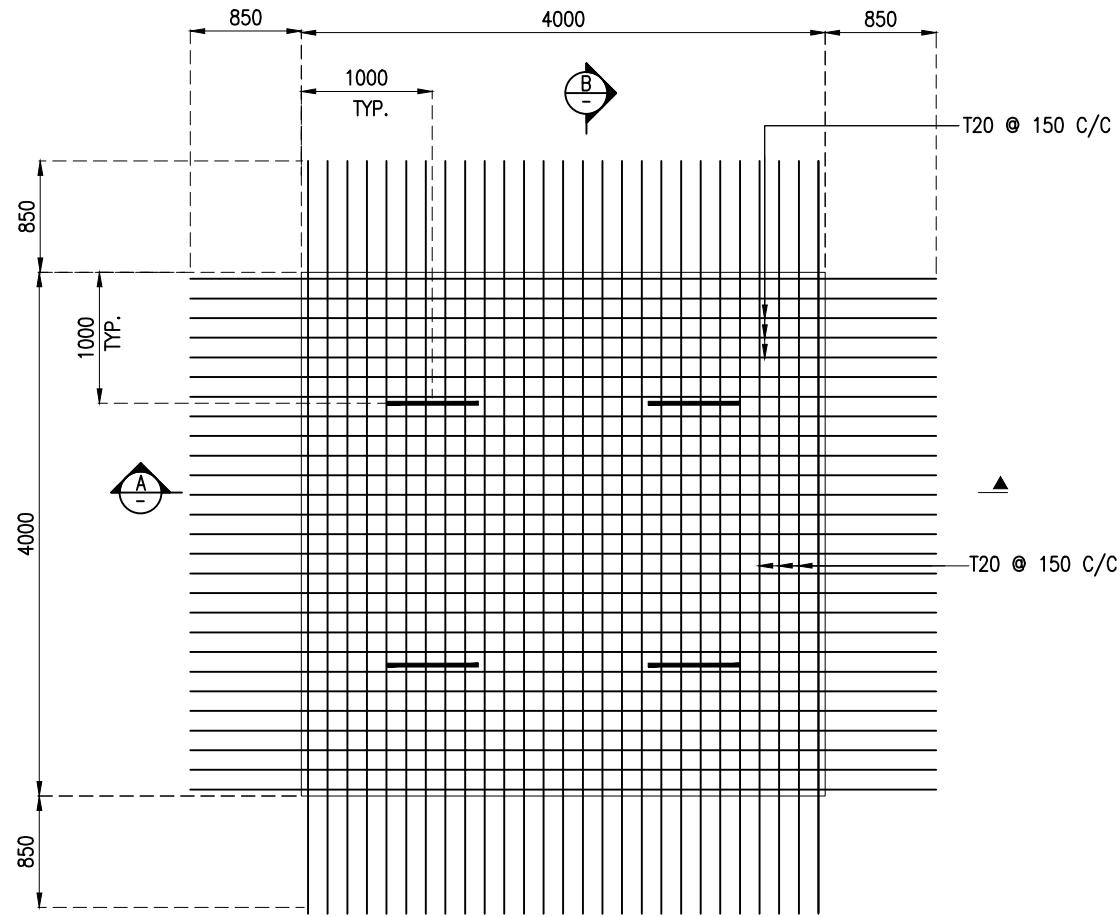
SECTION D
(SCALE 1:55)



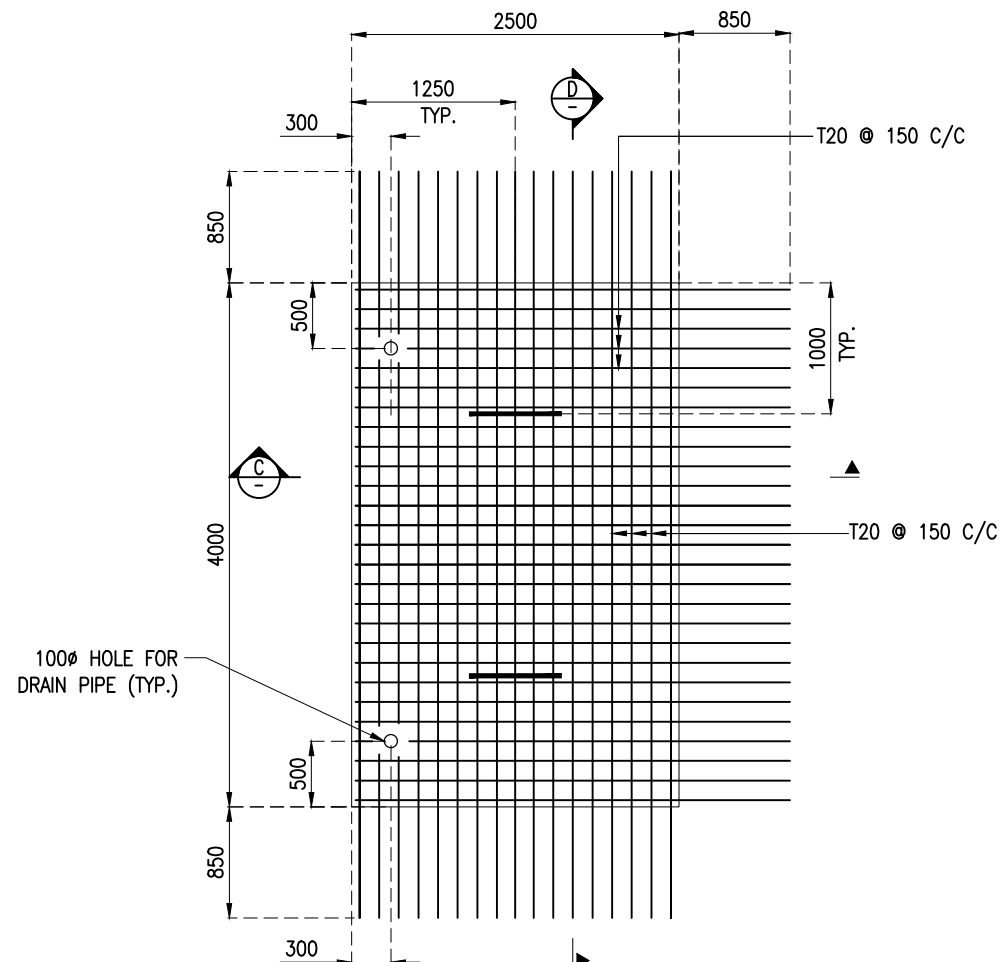
SECTION C
(SCALE 1:55)



DETAIL OF LIFTING HOOK
(SCALE 1:15)



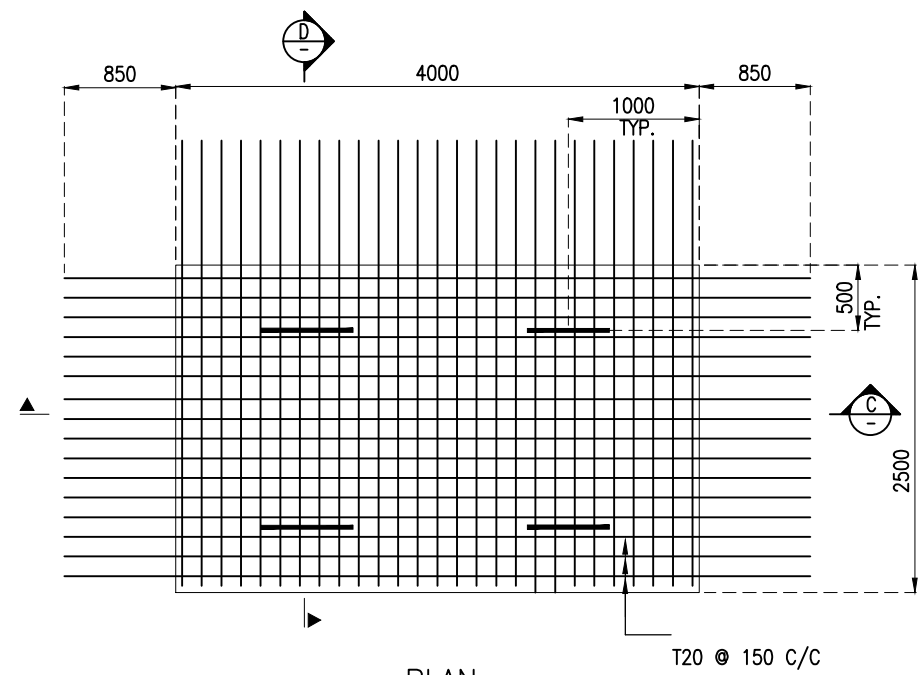
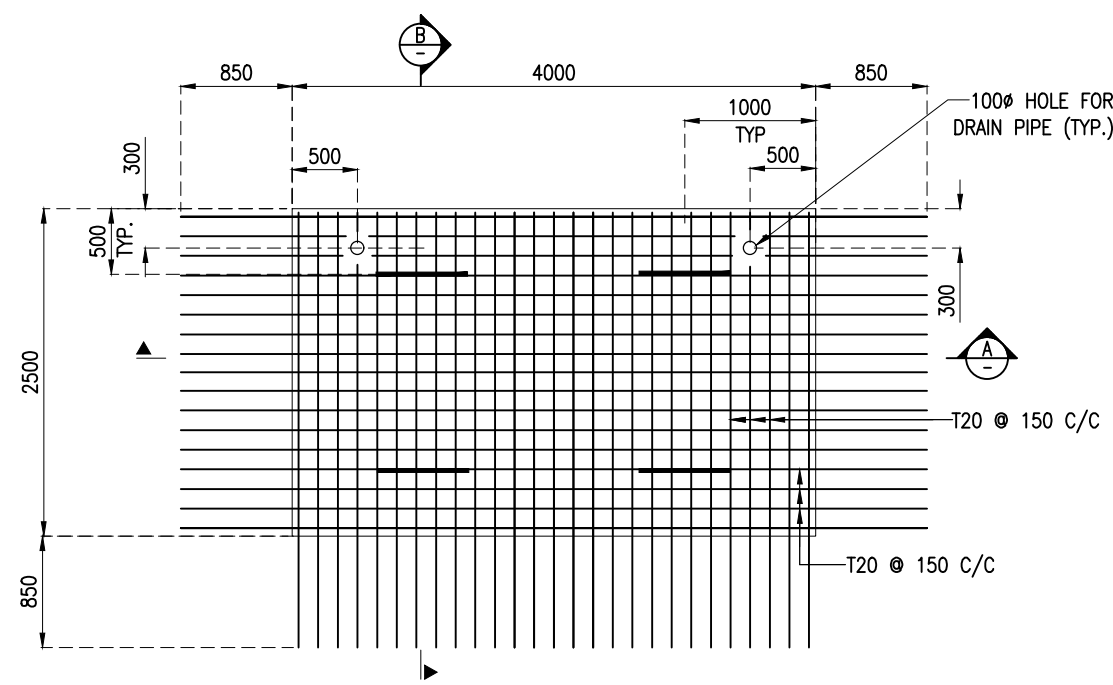
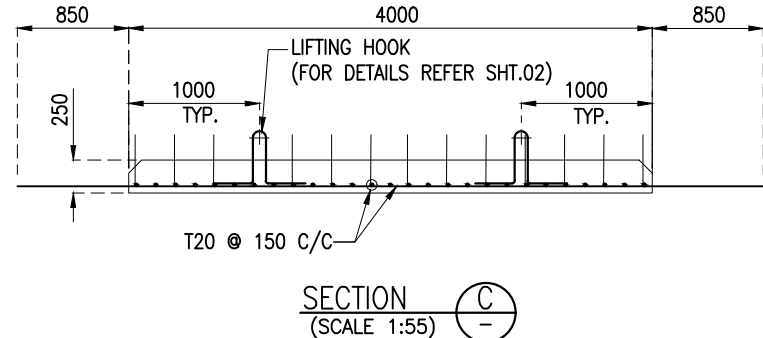
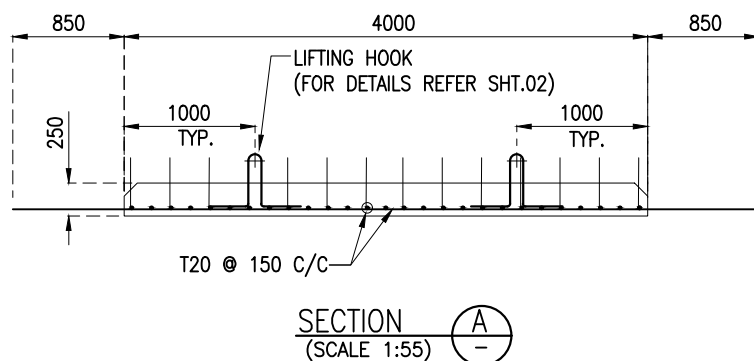
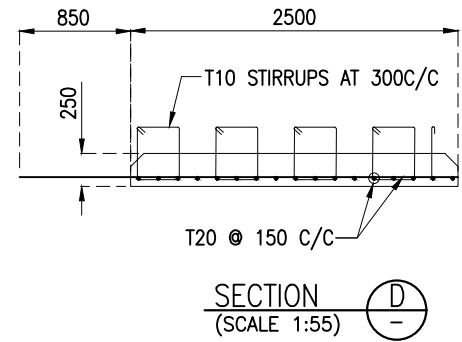
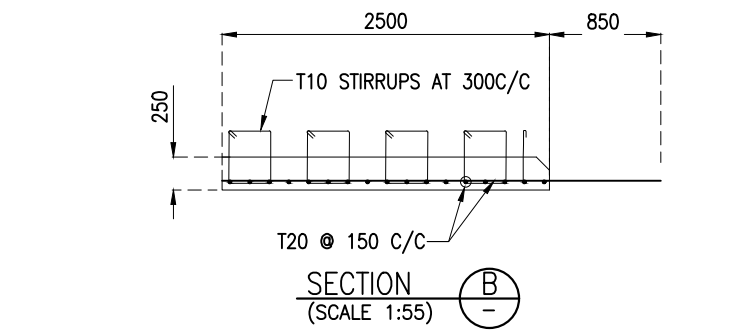
PLAN
DETAILS OF PRECAST SLAB FOR S1
(SCALE 1:55)



PLAN
DETAILS OF PRECAST SLAB FOR S2
(SCALE 1:55)

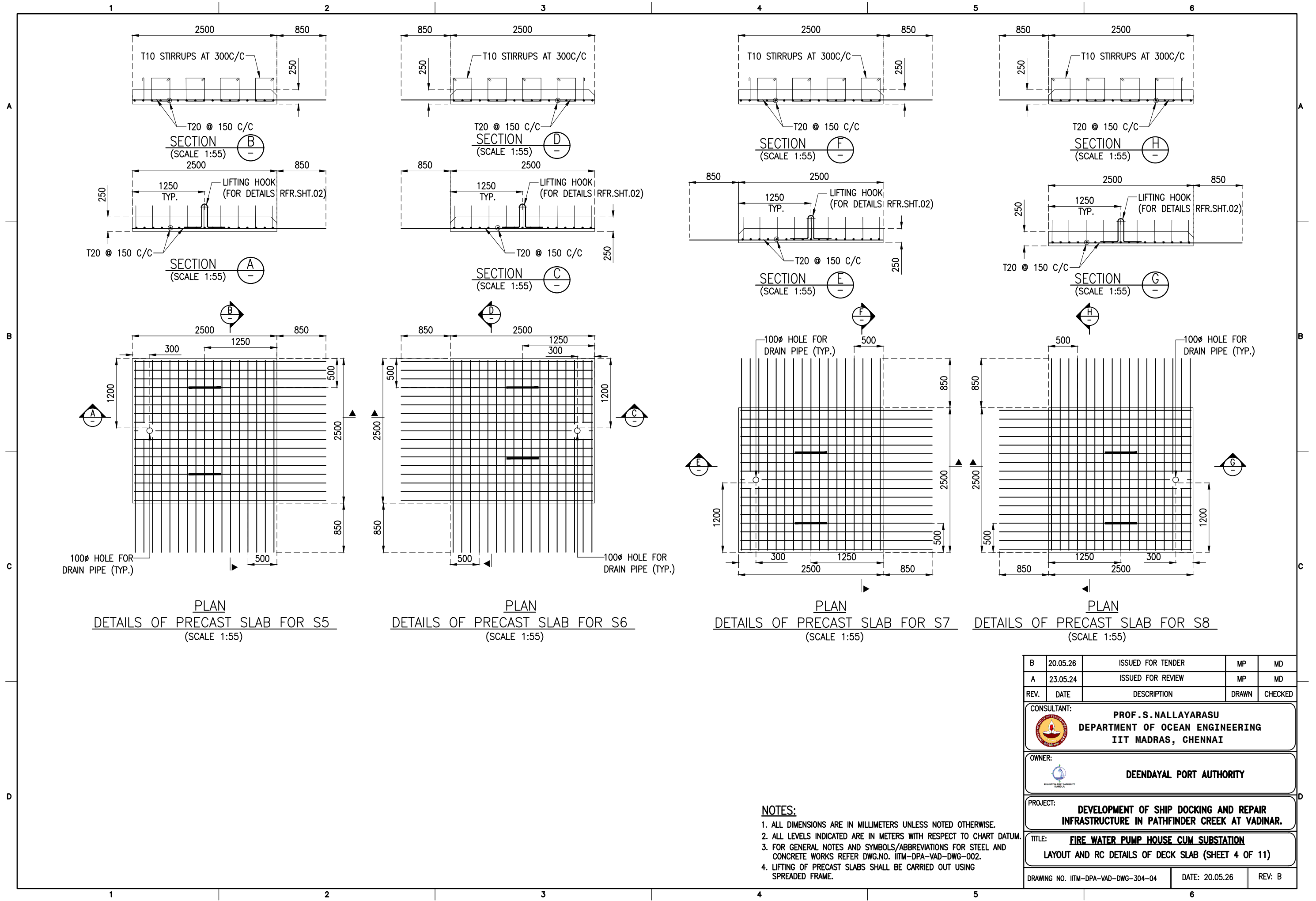
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. ITM-DPA-VAD-DWG-002.
 4. LIFTING OF PRECAST SLABS SHALL BE CARRIED OUT USING SPREADED FRAME.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 2 OF 11)				
DRAWING NO. ITM-DPA-VAD-DWG-304-02		DATE: 20.05.26		REV: B





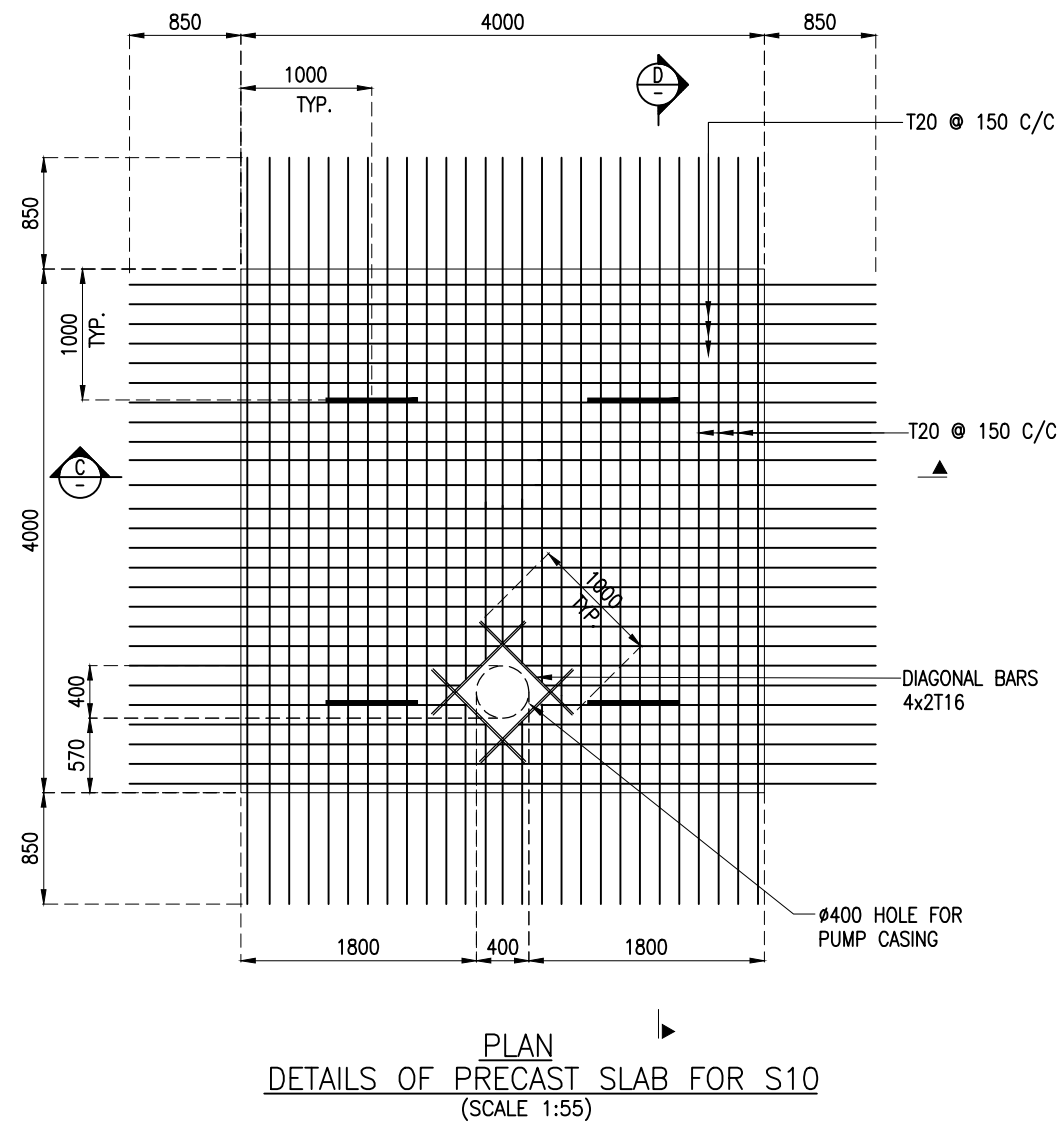
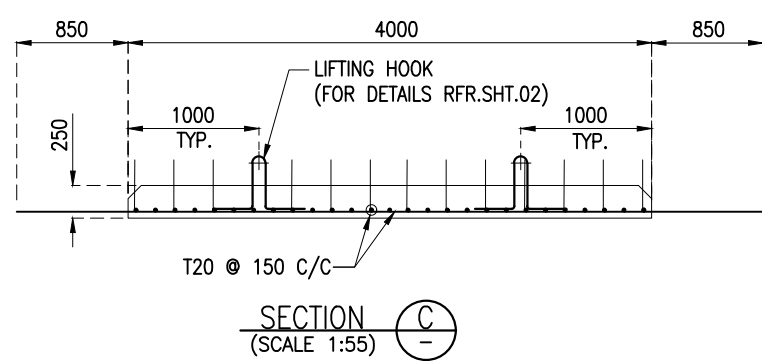
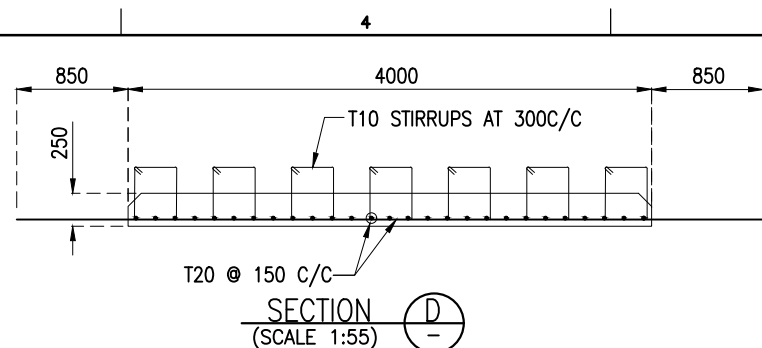
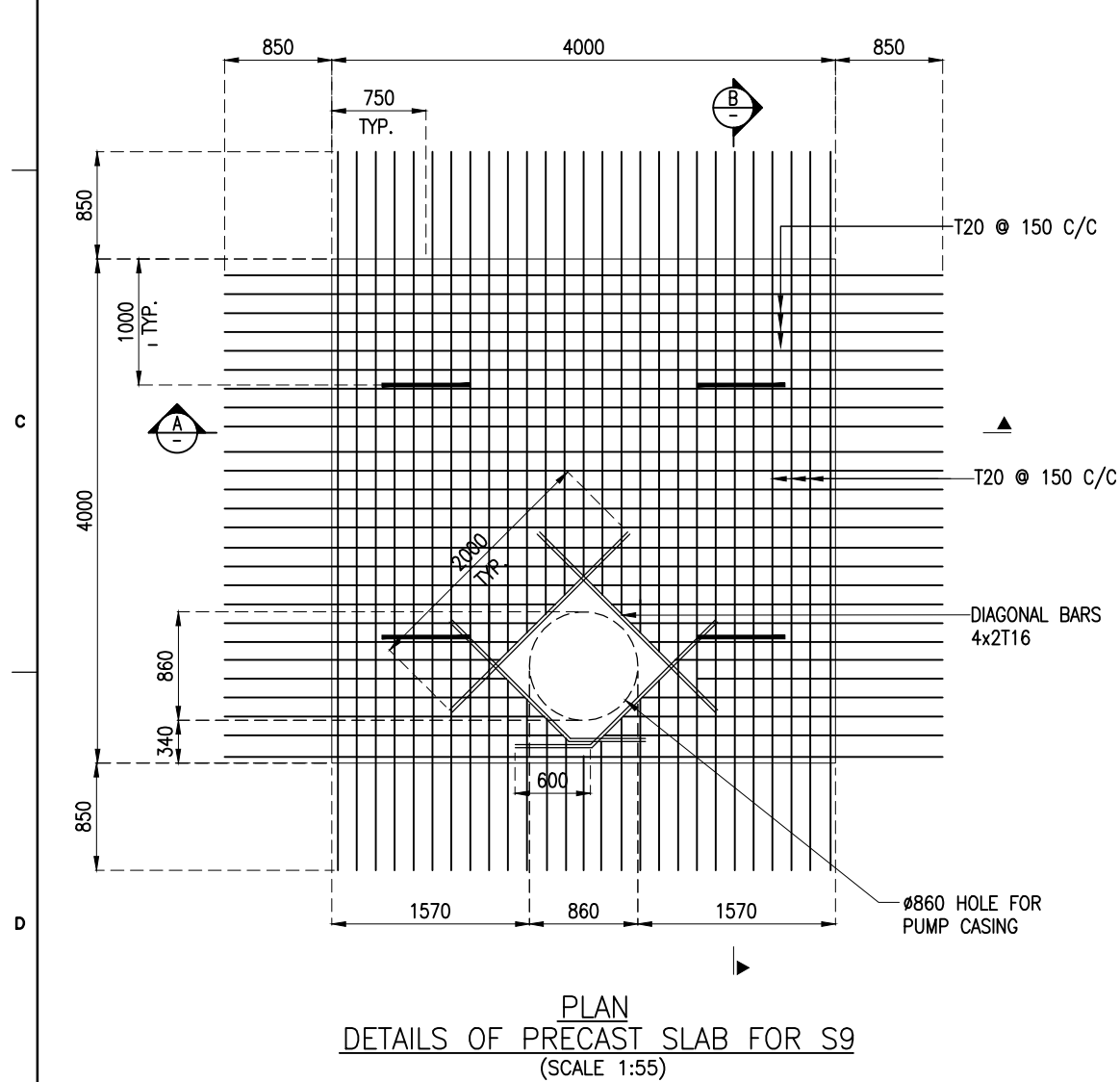
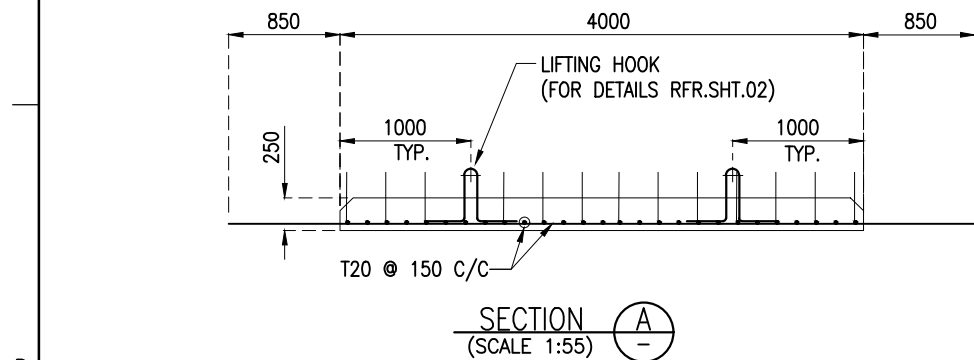
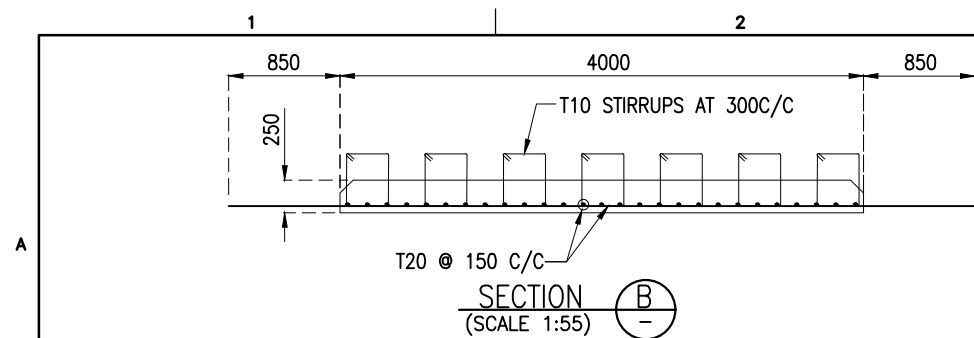
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. LIFTING OF PRECAST SLABS SHALL BE CARRIED OUT USING SPREADER FRAME.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 3 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-03			DATE: 20.05.26	REV: B



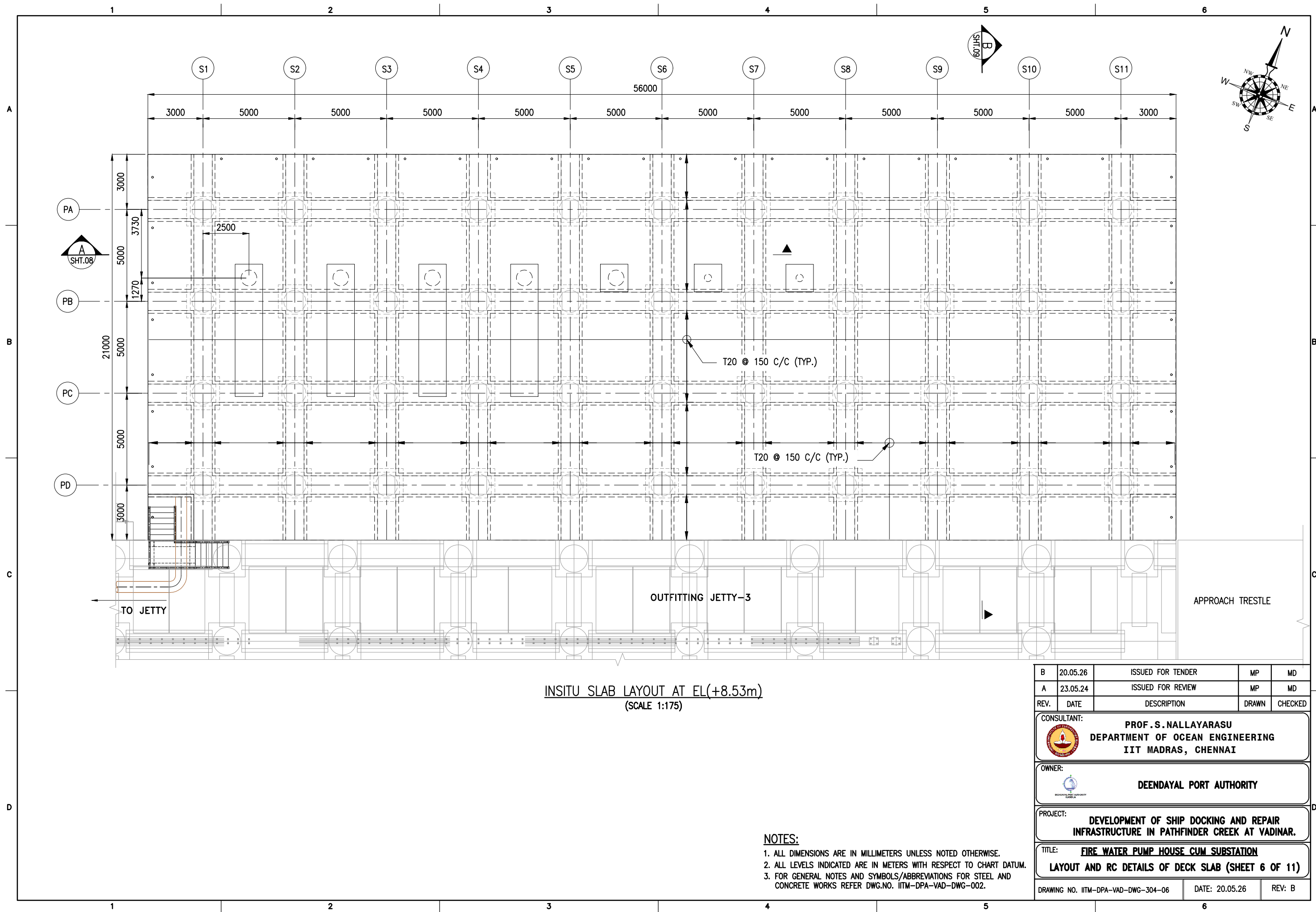
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. LIFTING OF PRECAST SLABS SHALL BE CARRIED OUT USING SPREADER FRAME.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 4 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-04			DATE: 20.05.26	REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. LIFTING OF PRECAST SLABS SHALL BE CARRIED OUT USING SPREADED FRAME.

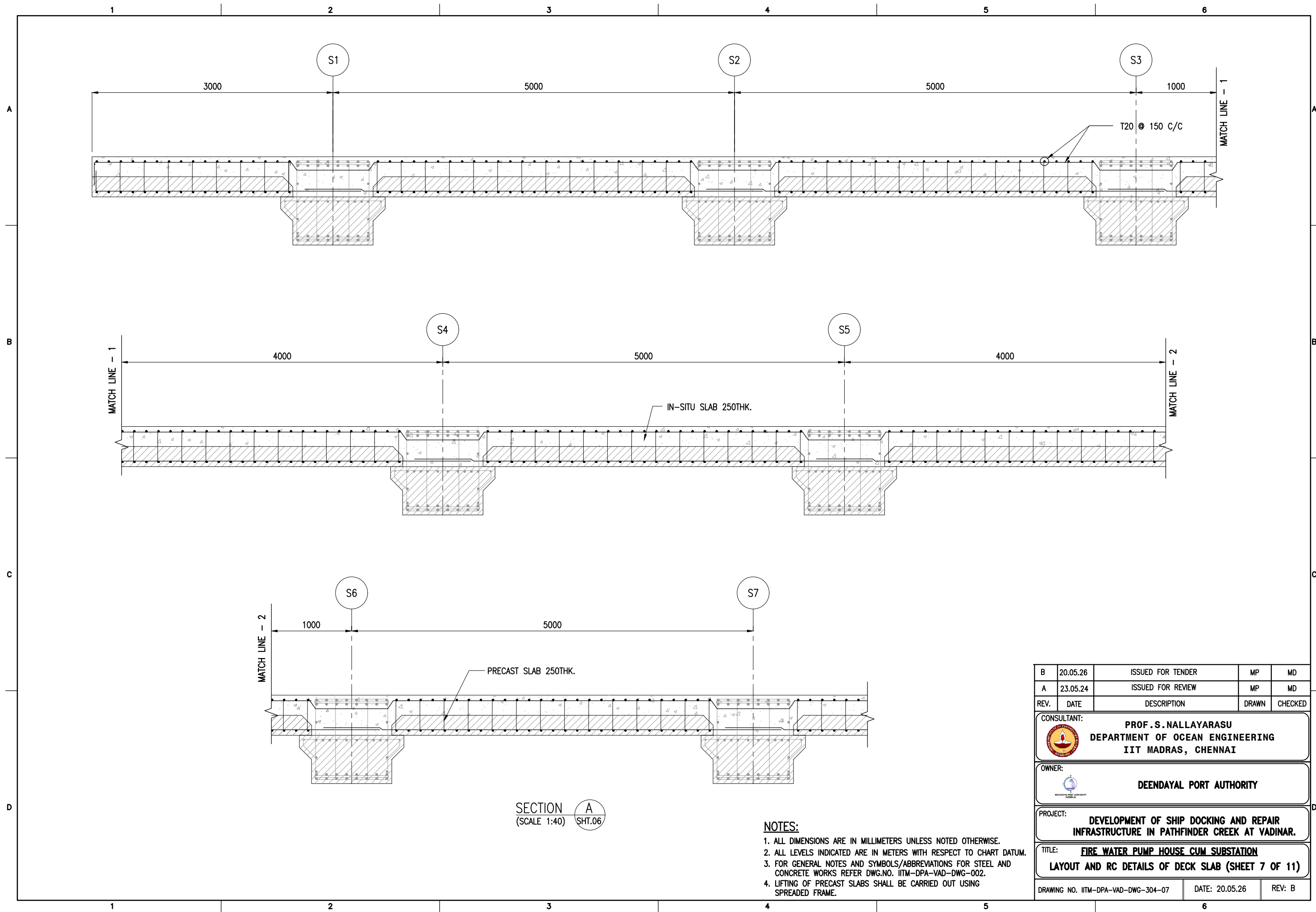
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 5 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-05		DATE: 20.05.26	REV: B	





INSITU SLAB LAYOUT AT EL(+8.53m)
(SCALE 1:175)

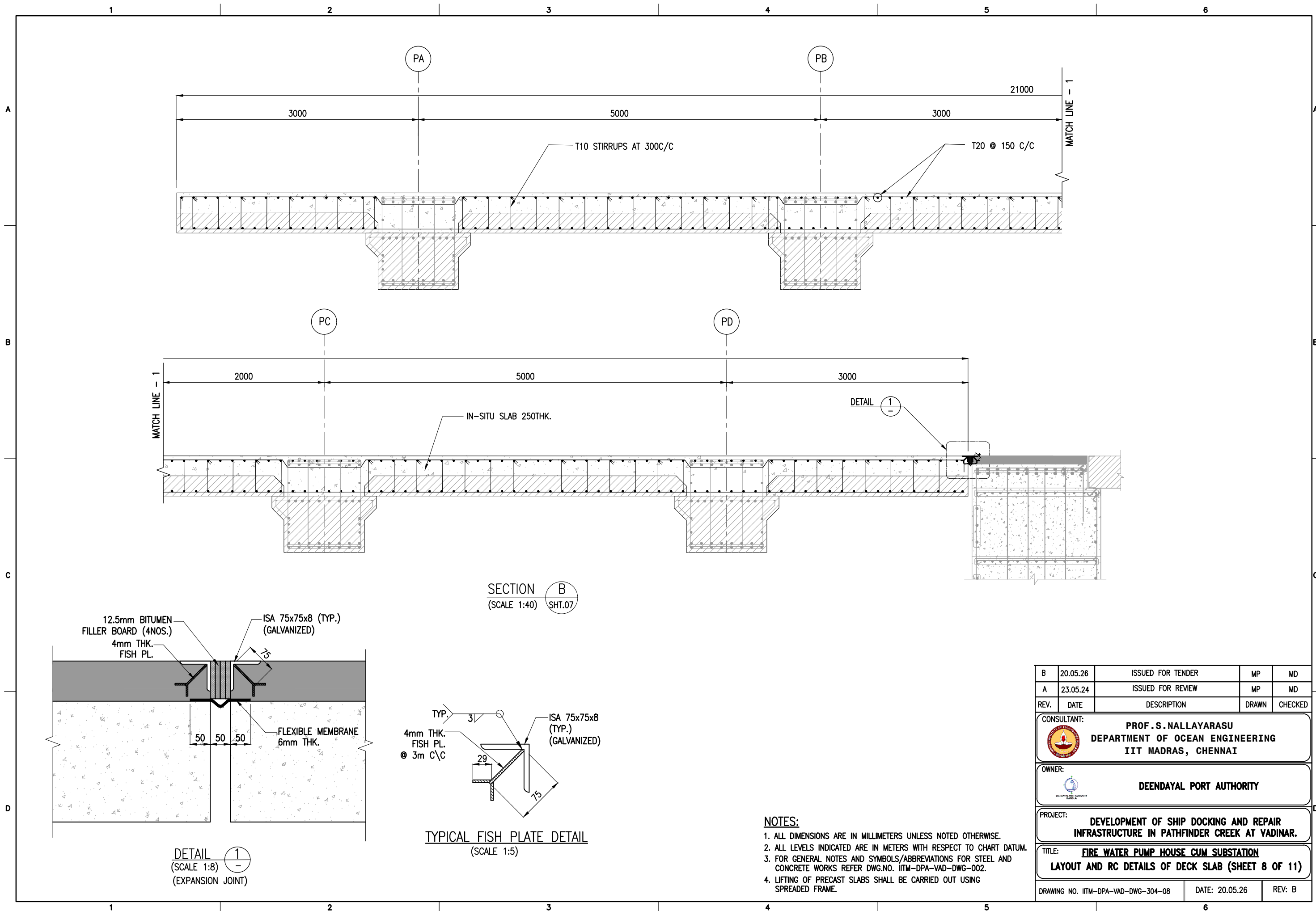
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

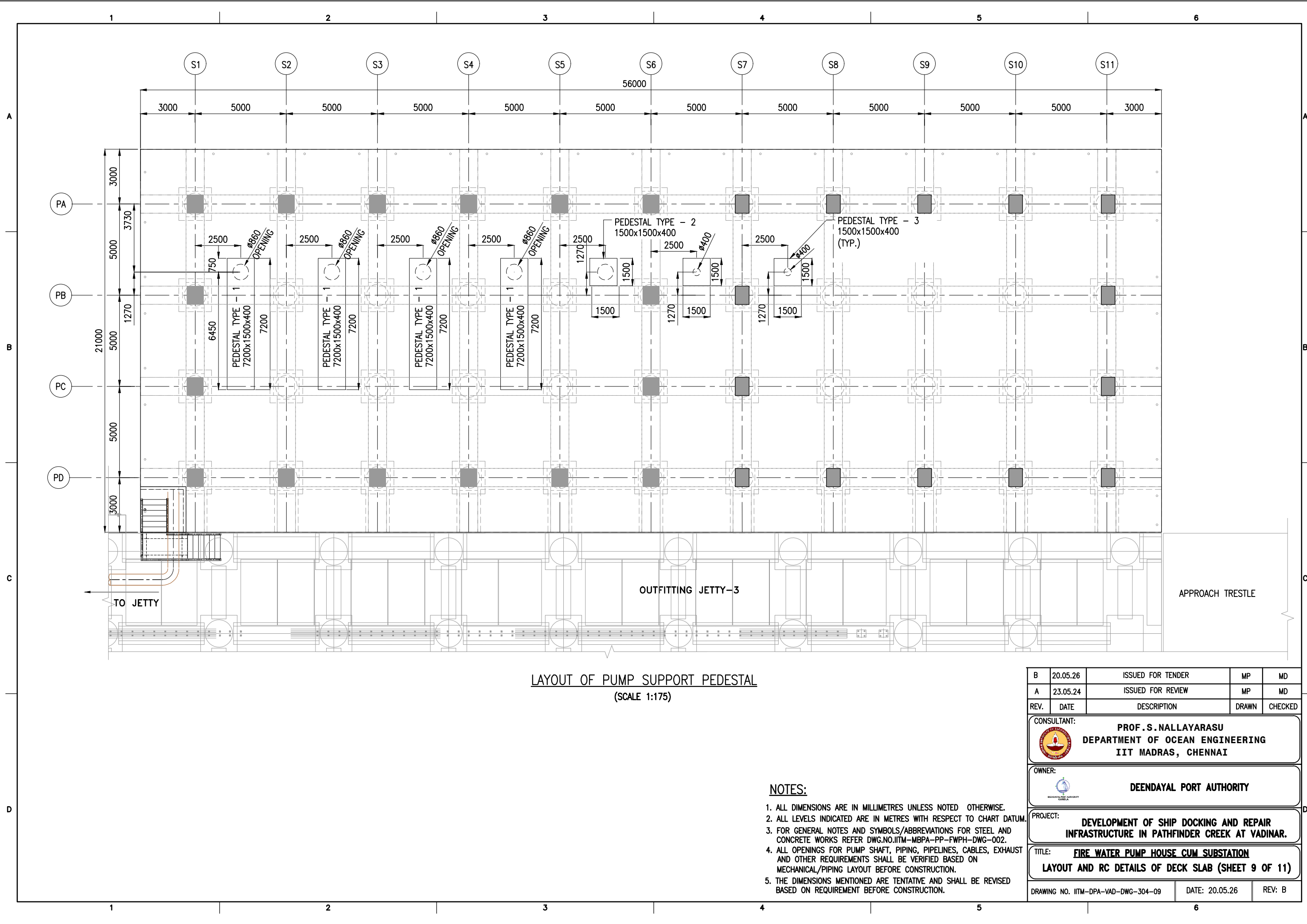
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 6 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-06			DATE: 20.05.26	REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. LIFTING OF PRECAST SLABS SHALL BE CARRIED OUT USING SPREADER FRAME.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 7 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-07			DATE: 20.05.26	REV: B

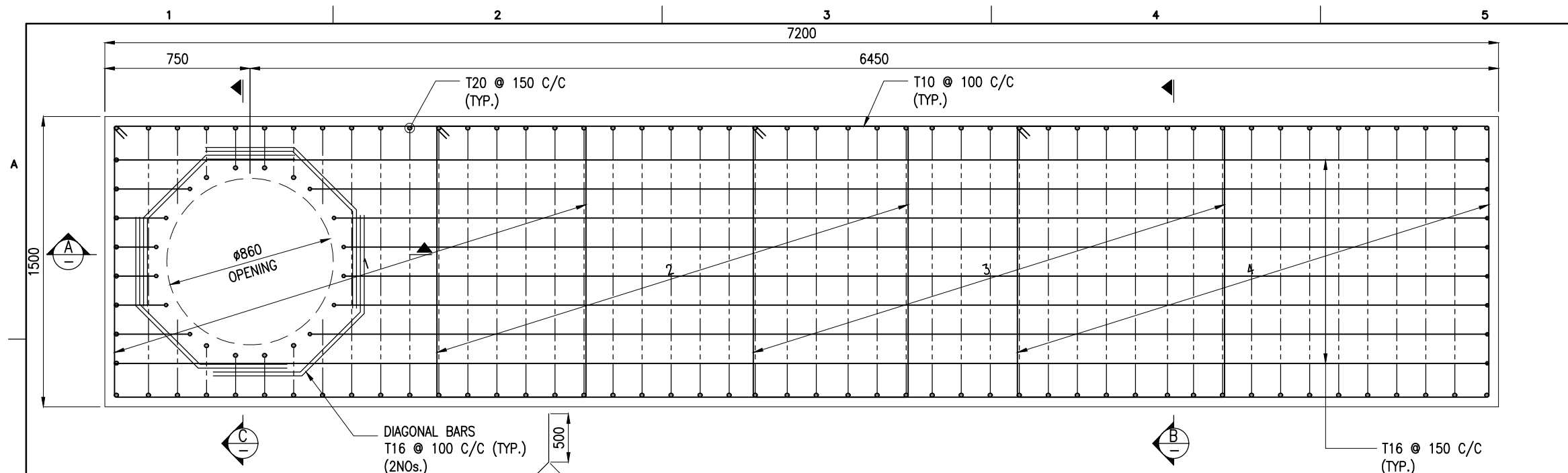




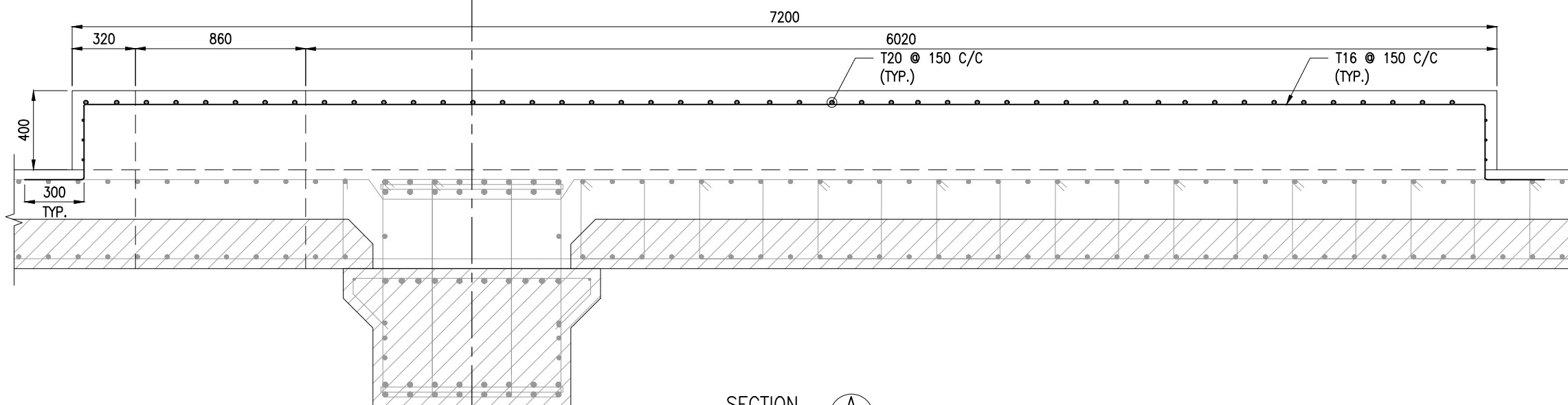
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-MBPA-PP-FWPH-DWG-002.
4. ALL OPENINGS FOR PUMP SHAFT, PIPING, PIPELINES, CABLES, EXHAUST AND OTHER REQUIREMENTS SHALL BE VERIFIED BASED ON MECHANICAL/PIPING LAYOUT BEFORE CONSTRUCTION.
5. THE DIMENSIONS MENTIONED ARE TENTATIVE AND SHALL BE REVISED BASED ON REQUIREMENT BEFORE CONSTRUCTION.

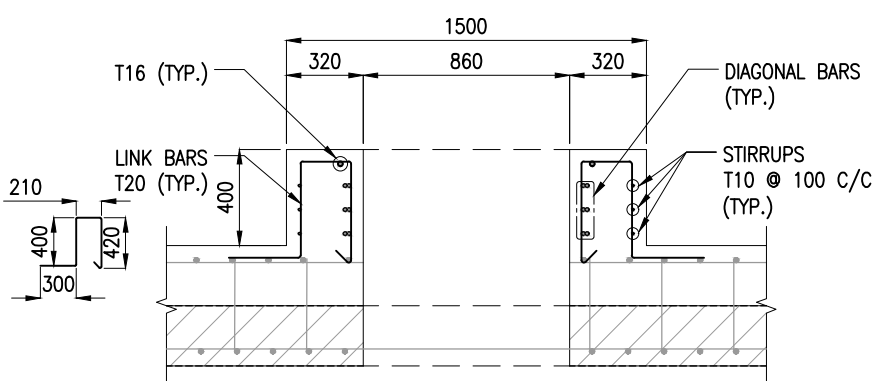
B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 9 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-09		DATE: 20.05.26		REV: B



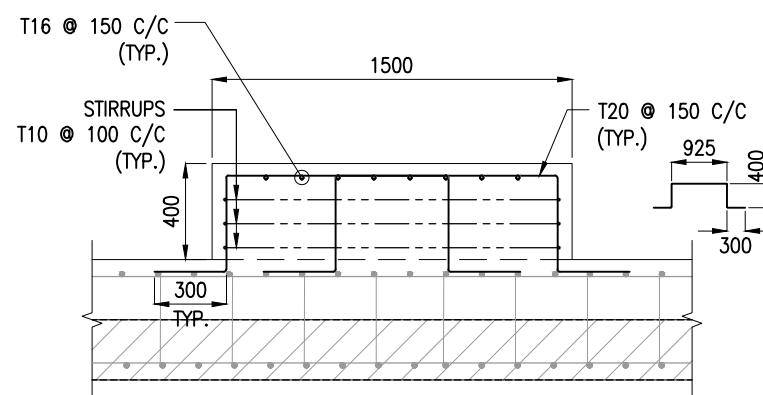
PLAN
(SCALE 1:25)



SECTION A
(SCALE 1:25)



SECTION C
(SCALE 1:30)



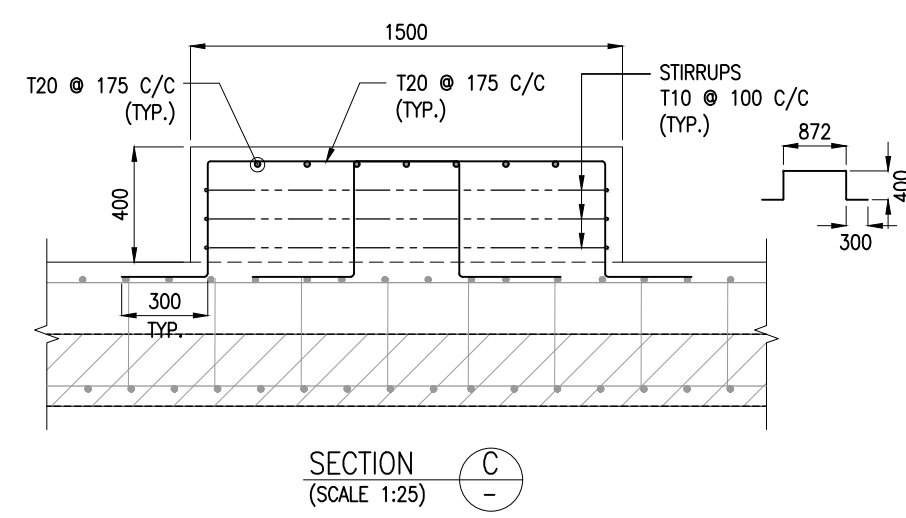
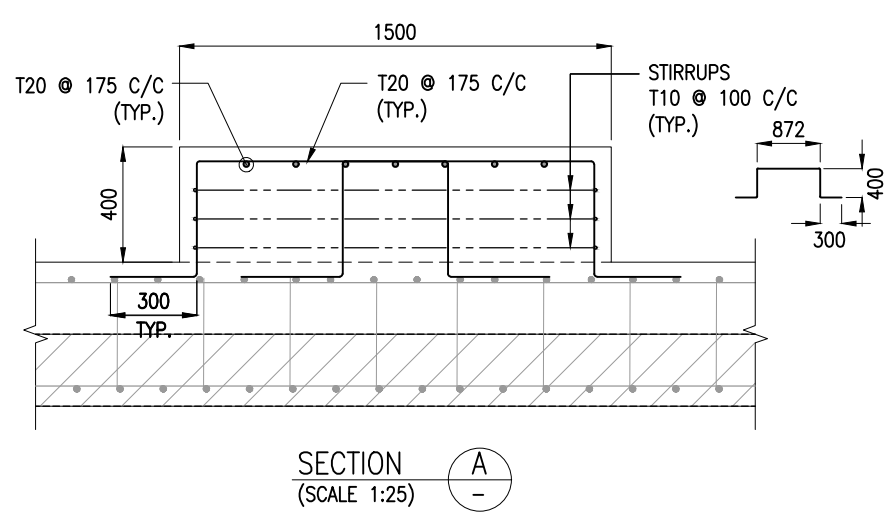
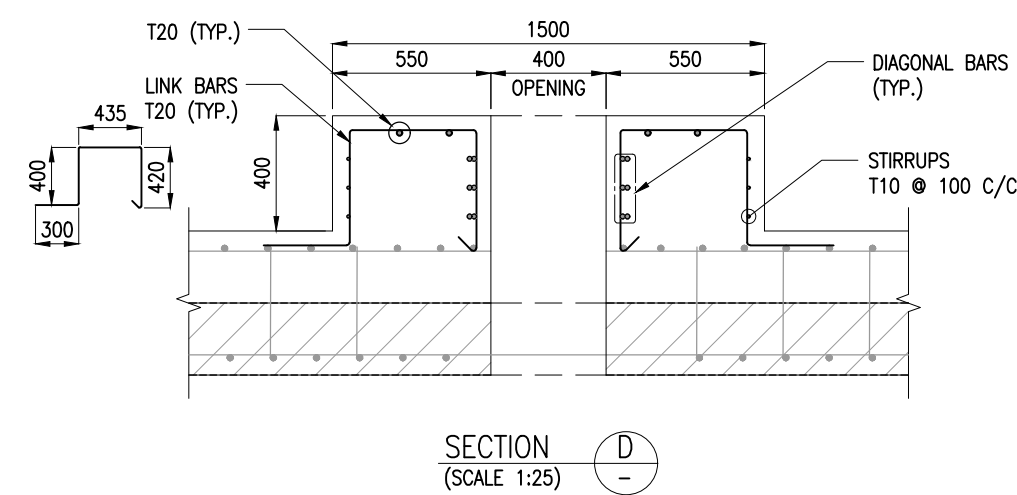
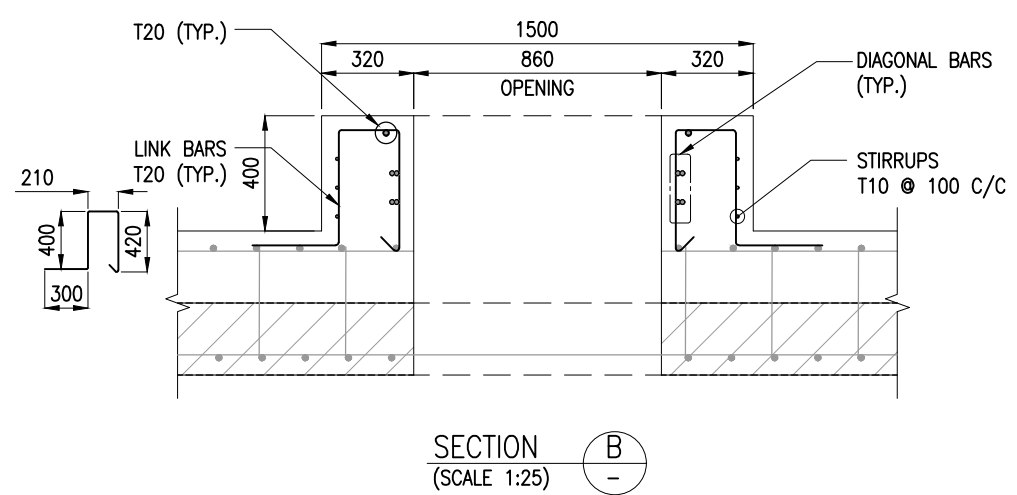
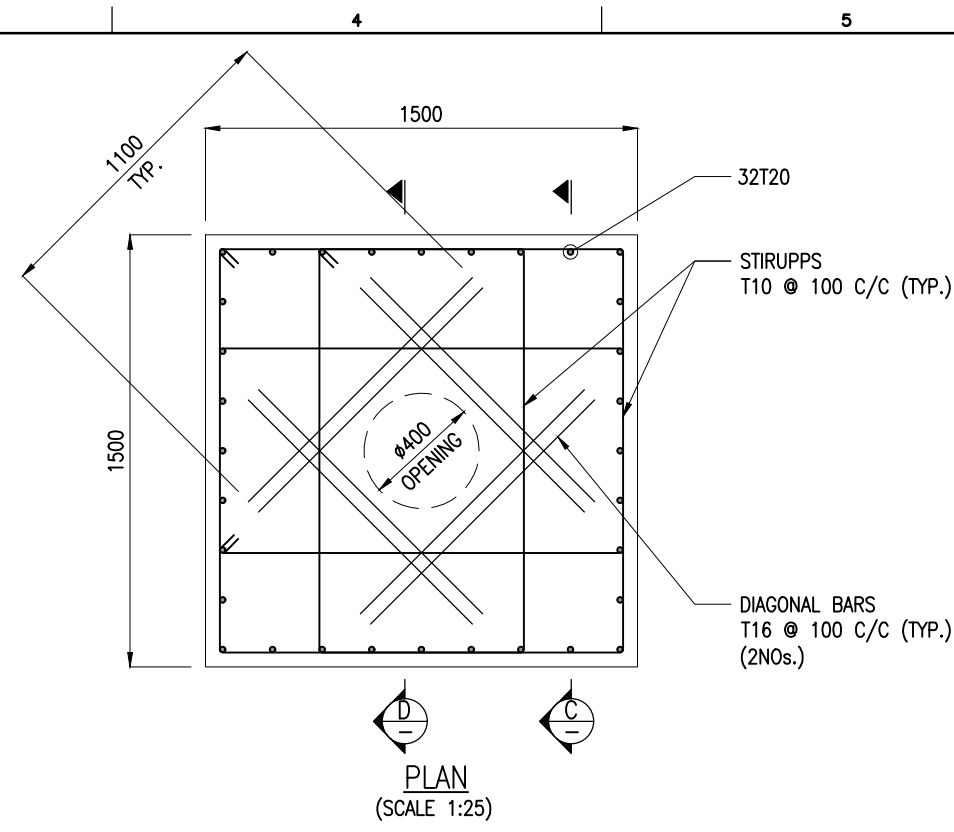
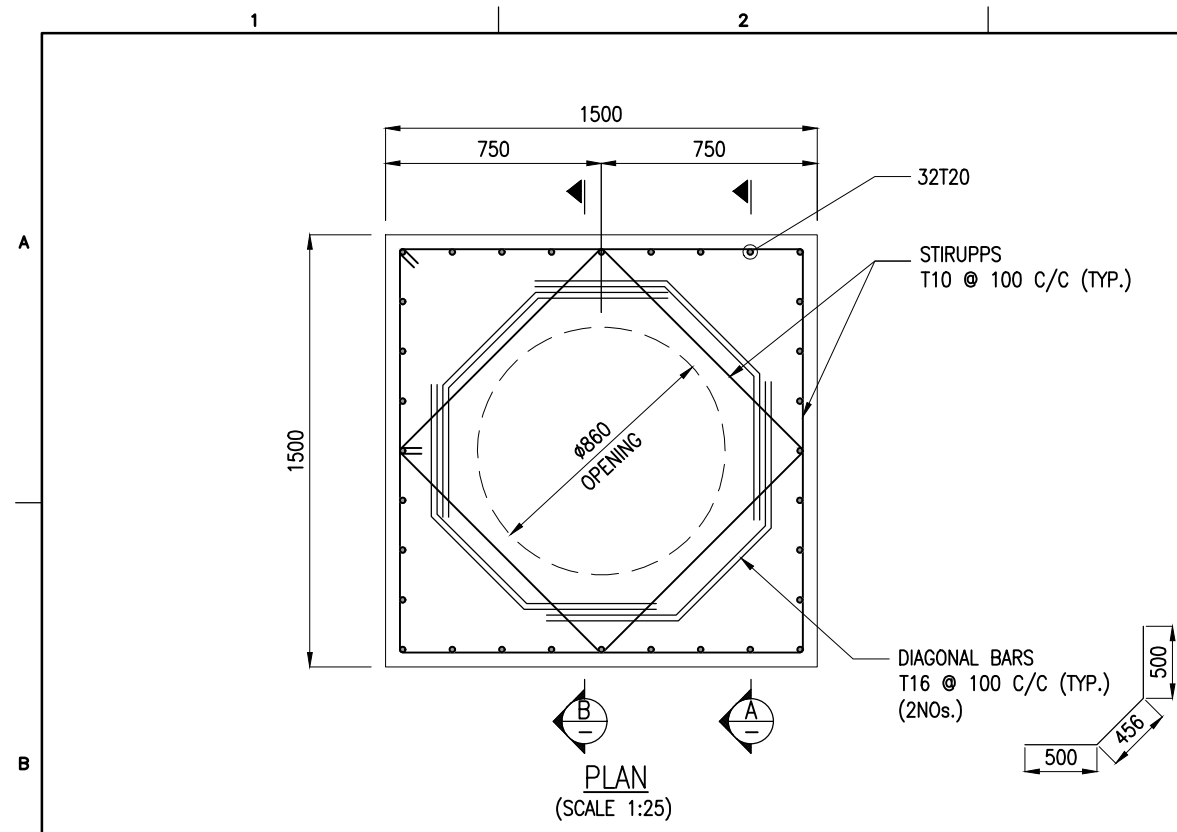
SECTION B
(SCALE 1:25)

PEDESTAL SUPPORT DETAILS - TYPE 1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-MBPA-PP-FWPH-DWG-002.
4. ALL OPENINGS FOR PUMP SHAFT, PIPING, PIPELINES, CABLES, EXHAUST AND OTHER REQUIREMENTS SHALL BE VERIFIED BASED ON MECHANICAL/PIPING LAYOUT BEFORE CONSTRUCTION.
5. THE DIMENSIONS MENTIONED ARE TENTATIVE AND SHALL BE REVISED BASED ON REQUIREMENT BEFORE CONSTRUCTION.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 10 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-10			DATE: 20.05.26	REV: B

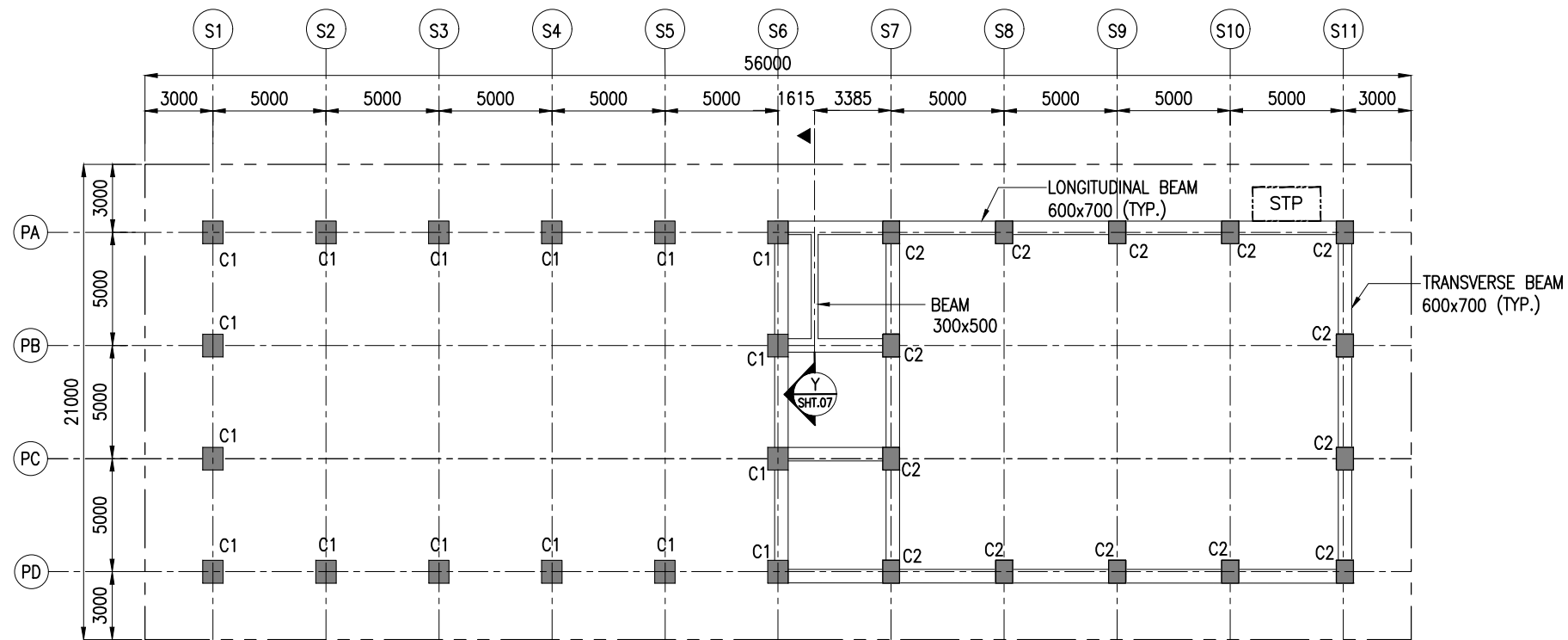


PEDESTAL SUPPORT DETAILS - TYPE 2

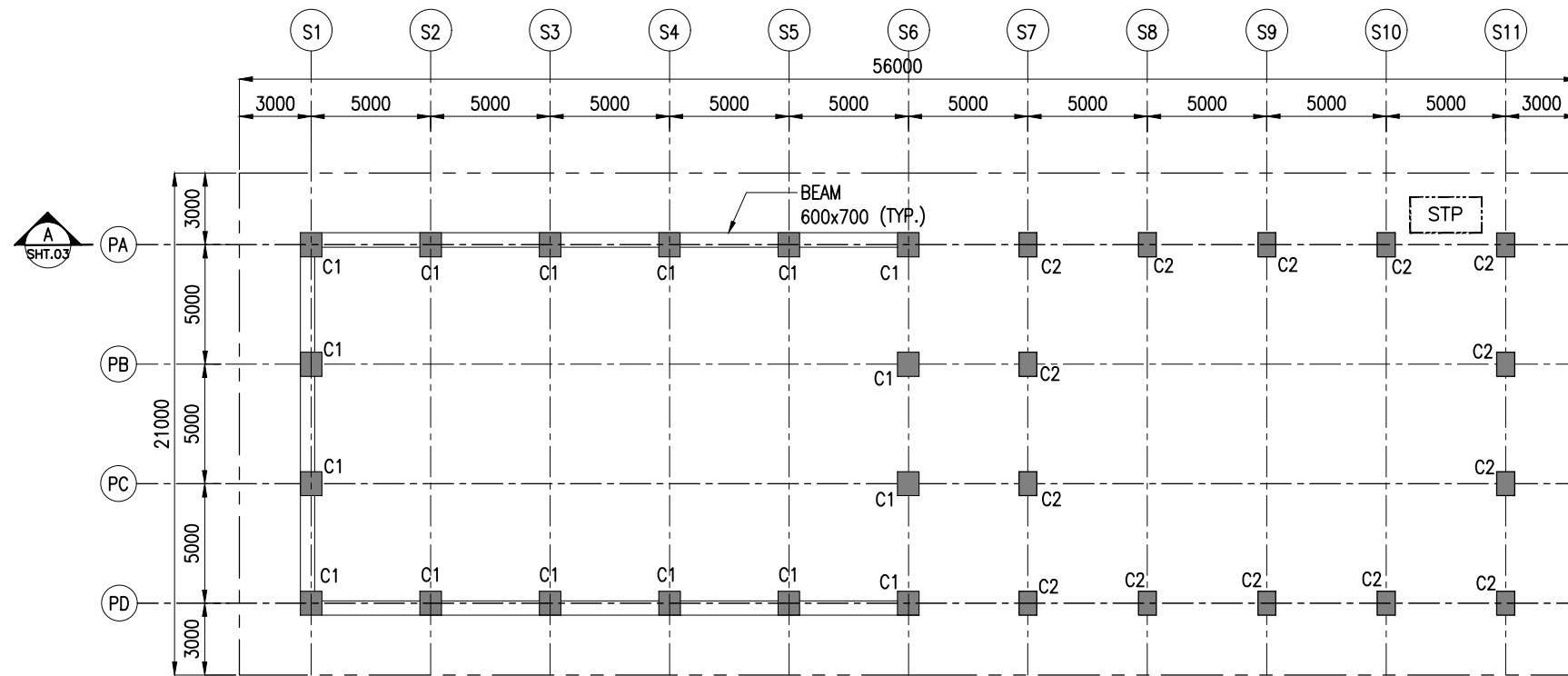
PEDESTAL SUPPORT DETAILS - TYPE 3

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-MBPA-PP-FWPH-DWG-002.
 4. ALL OPENINGS FOR PUMP SHAFT, PIPING, PIPELINES, CABLES, EXHAUST AND OTHER REQUIREMENTS SHALL BE VERIFIED BASED ON MECHANICAL/PIPING LAYOUT BEFORE CONSTRUCTION.
 5. THE DIMENSIONS MENTIONED ARE TENTATIVE AND SHALL BE REVISED BASED ON REQUIREMENT BEFORE CONSTRUCTION.

B	20.05.26	ISSUED FOR TENDER	MP	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF DECK SLAB (SHEET 11 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-304-11		DATE: 20.05.26		REV: B



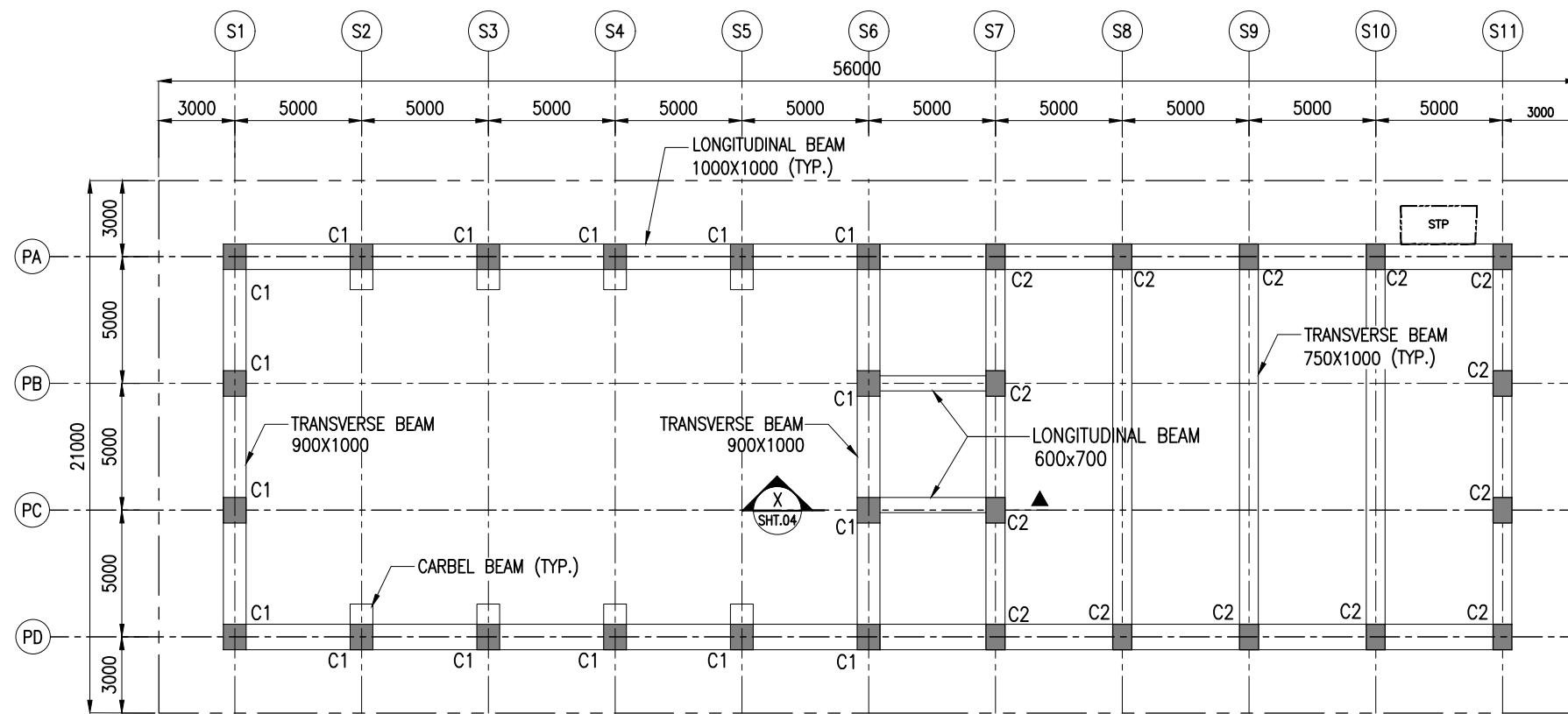
PLAN AT EL(+) 12.13m
SCALE 1:275



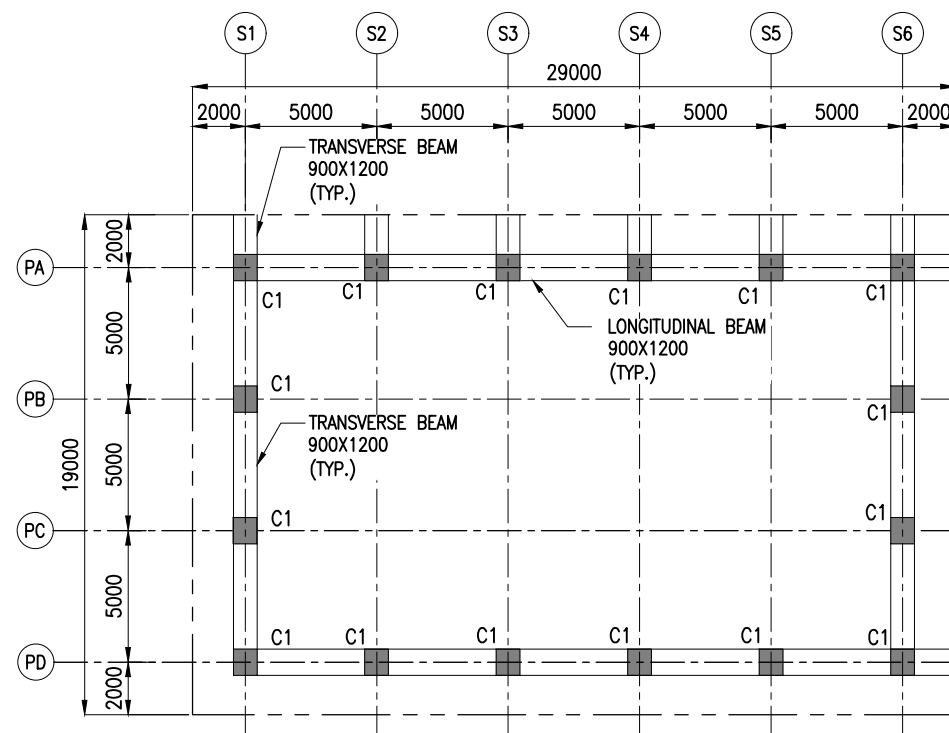
PLAN AT EL(+) 13.80m
SCALE 1:275

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 1 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-01		DATE: 20.05.26		REV: B





PLAN AT EL(+16.93m)
SCALE 1:250

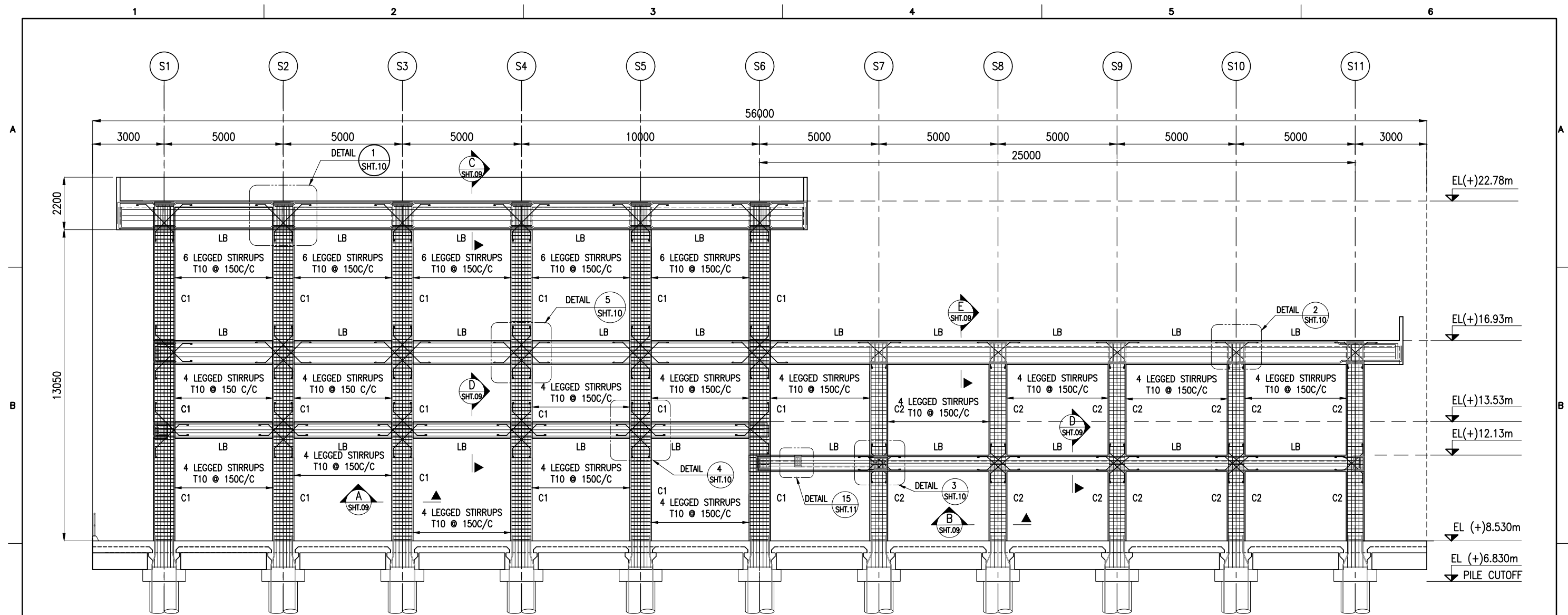


PLAN AT EL(+22.78m)
SCALE 1:250

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 2 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-02		DATE: 20.05.26		REV: B

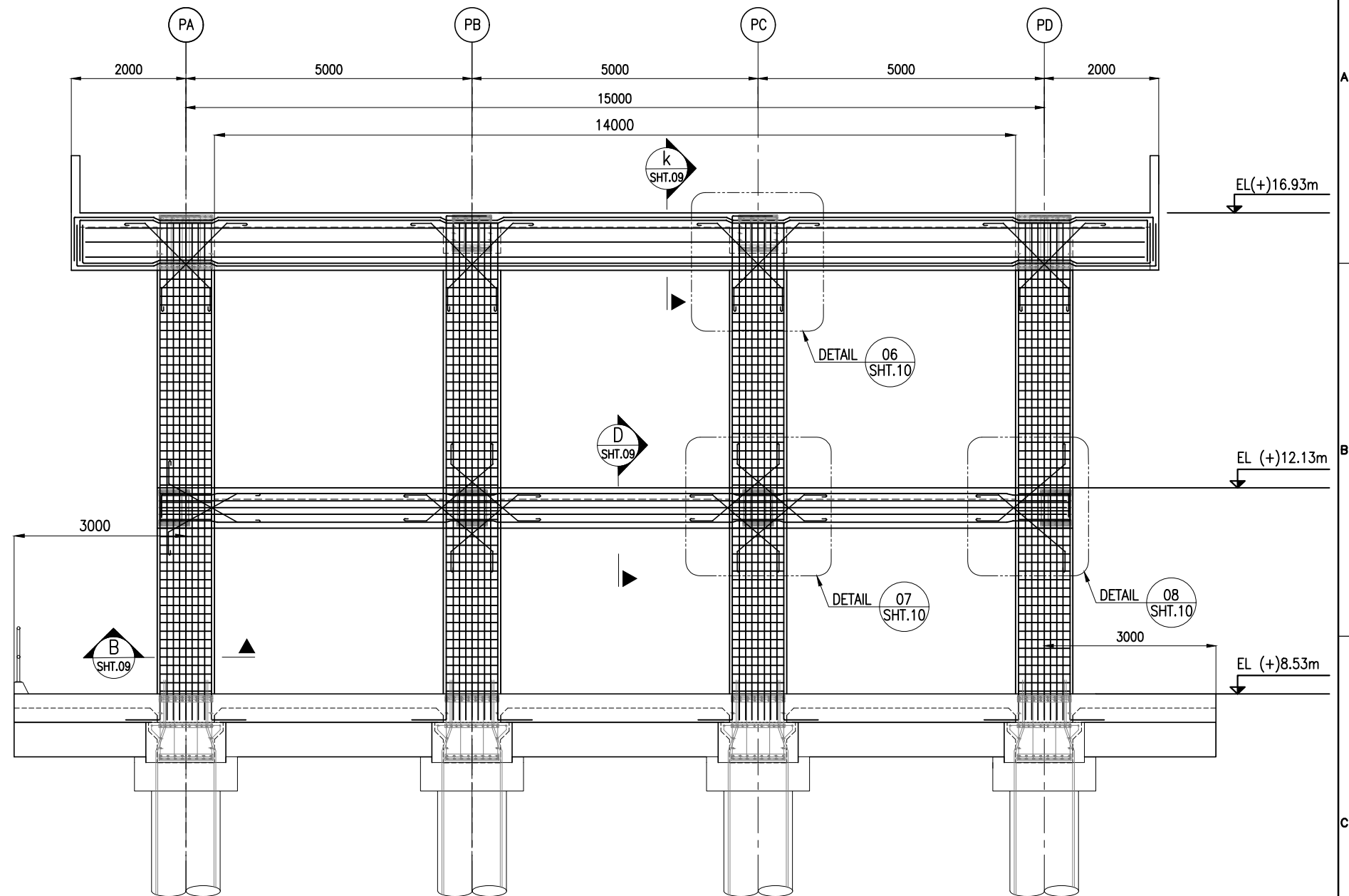
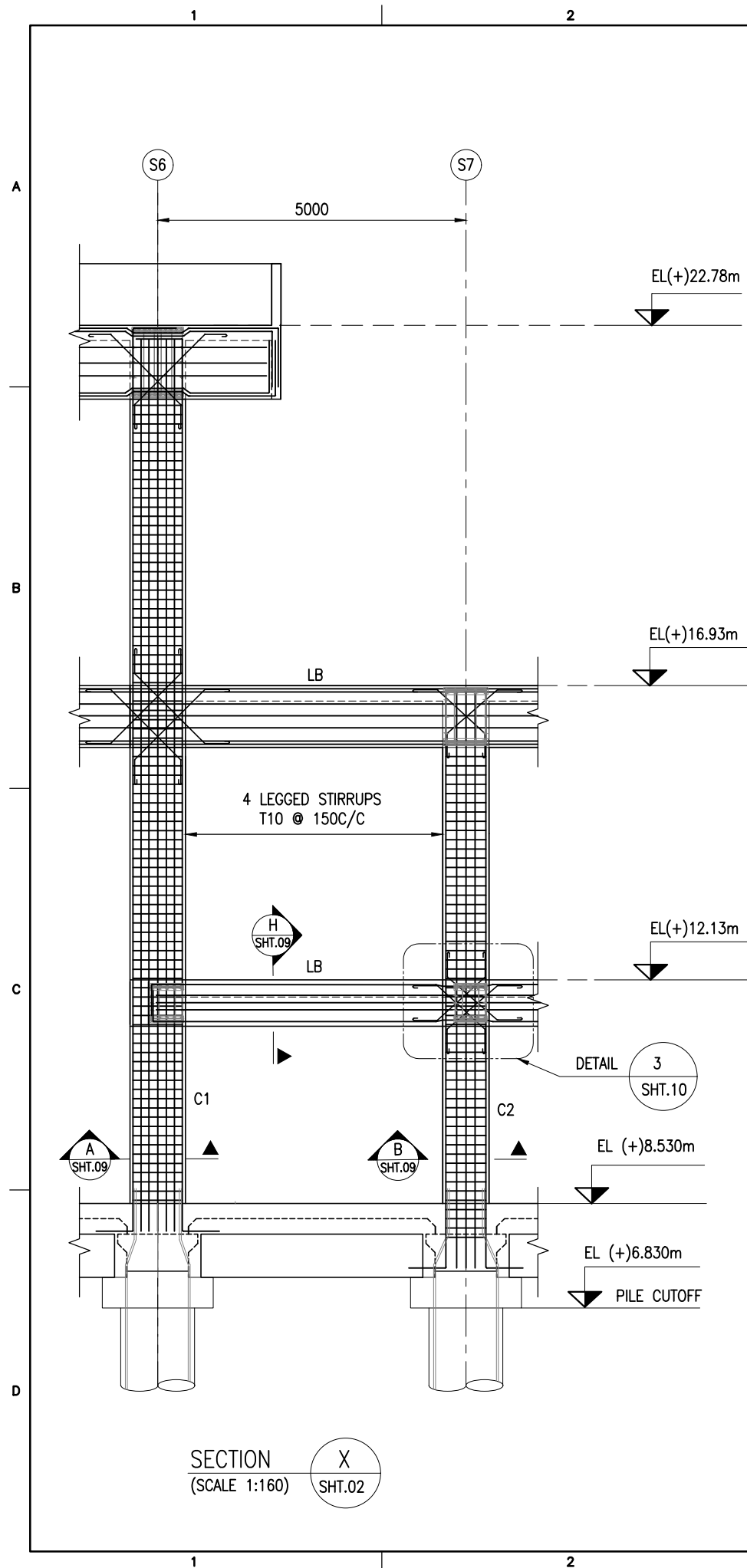


LONGITUDINAL SECTION @ GRID PA
(SCALE 1:160)

NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

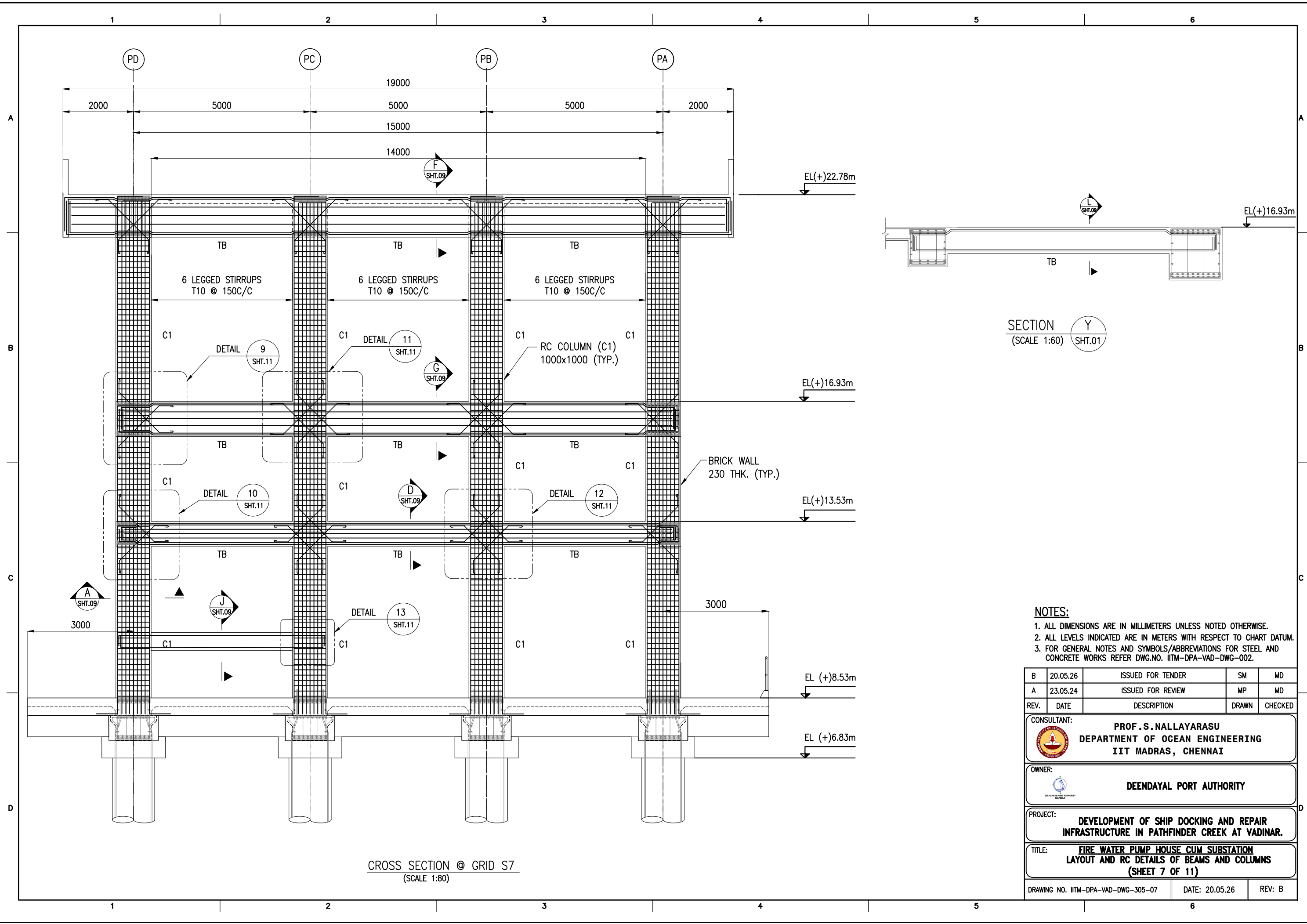
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 3 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-03		DATE: 20.05.26		REV: B



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

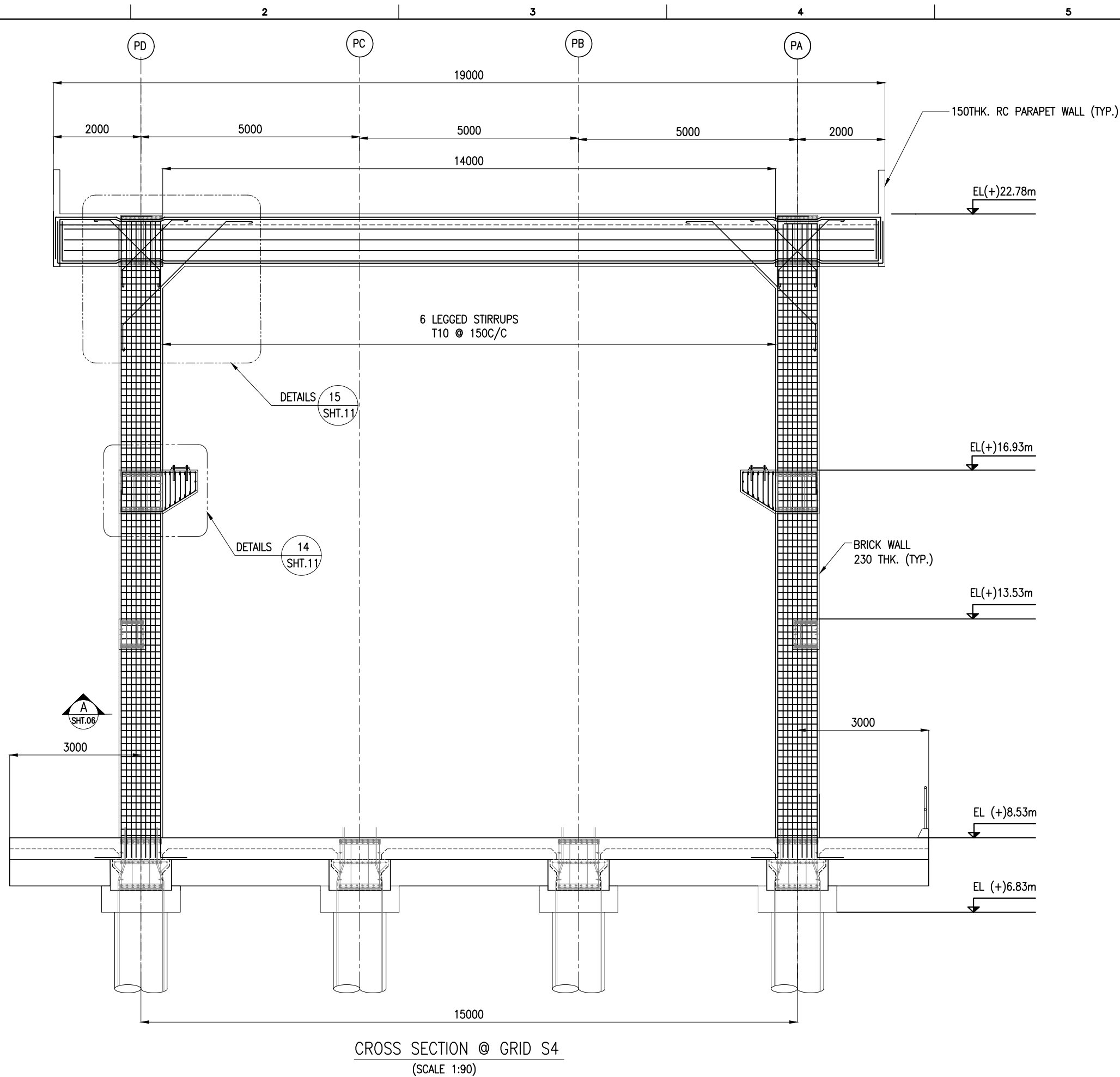
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 4 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-04			DATE: 20.05.26	REV: B



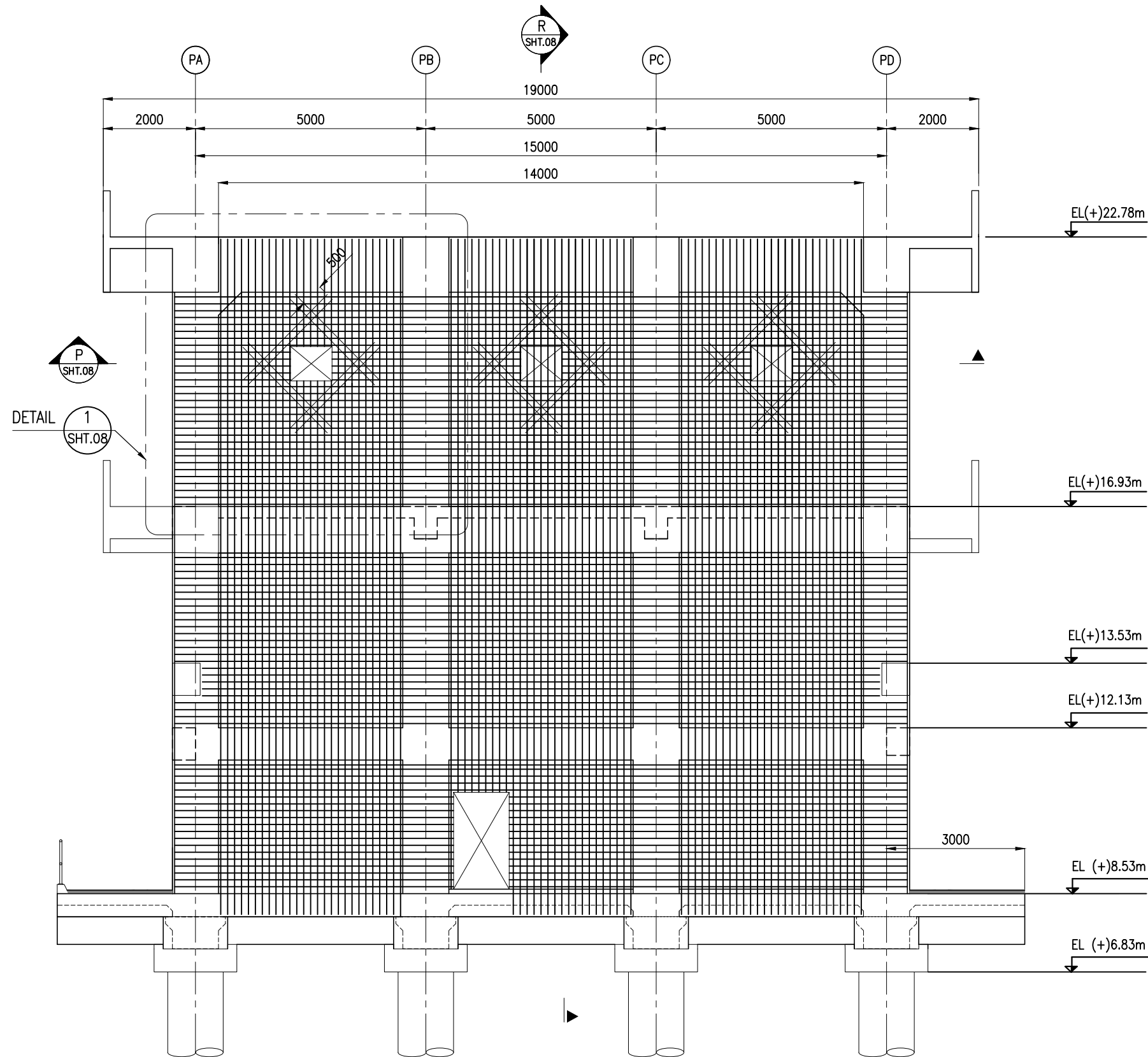
SECTION Y
(SCALE 1:60) SHT.01

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 7 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-07		DATE: 20.05.26		REV: B



NOTES:				
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.				
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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.				
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 5 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-05		DATE: 20.05.26		REV: B

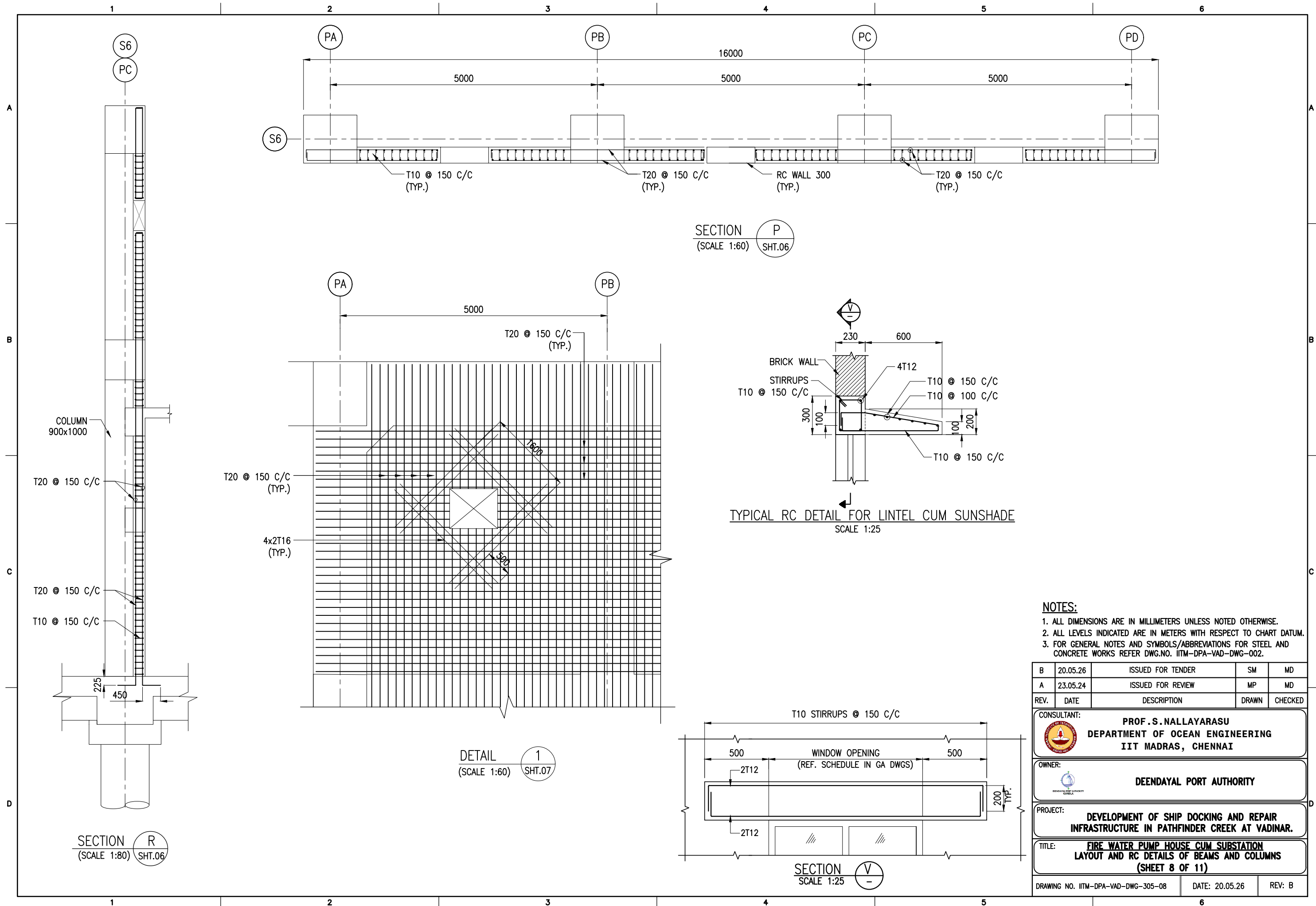


CROSS SECTION @ GRID S6
(SCALE 1:100)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

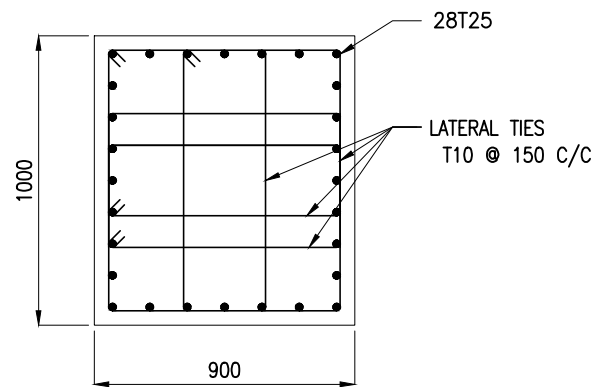
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A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 6 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-06			DATE: 20.05.26	REV:B



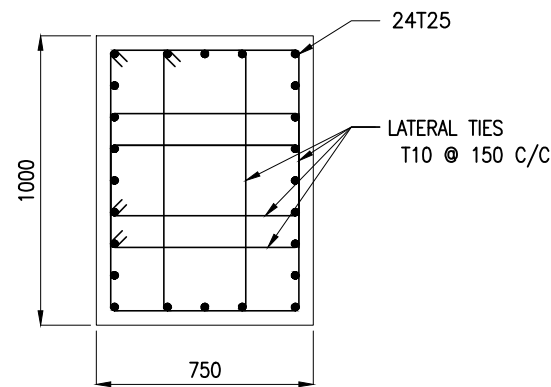
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

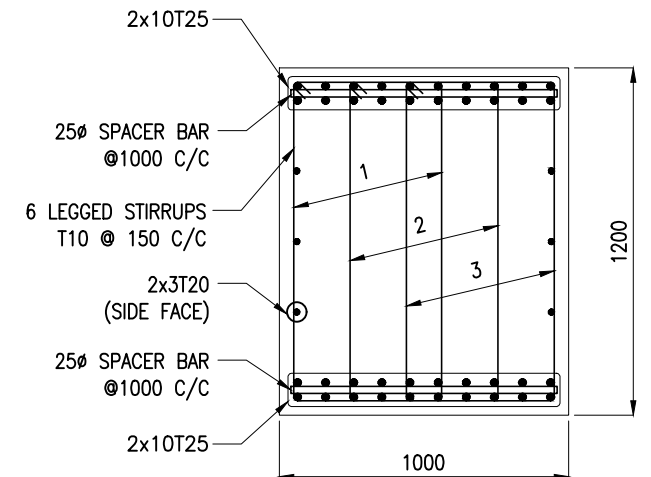
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 8 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-08		DATE: 20.05.26		REV: B



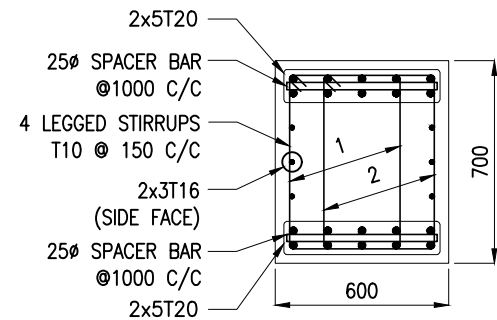
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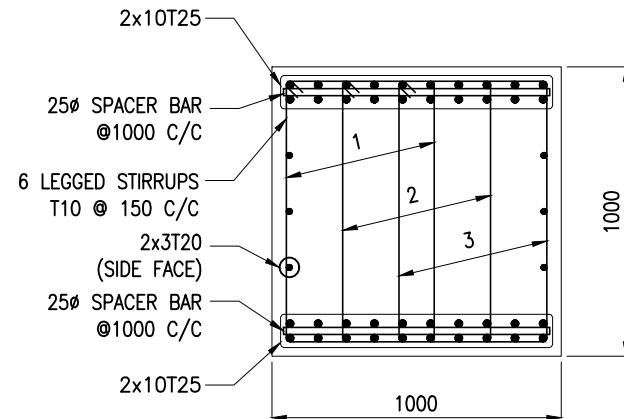
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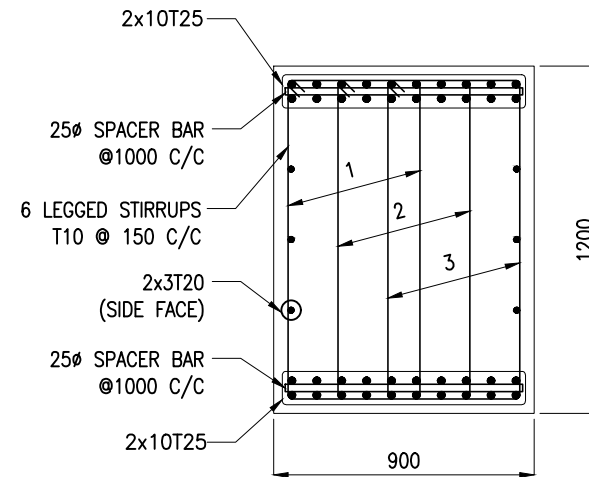
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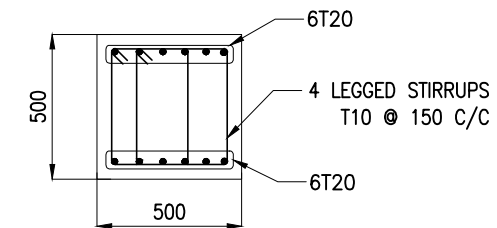
SECTION D
(SCALE 1:25) SHT.04 & 07



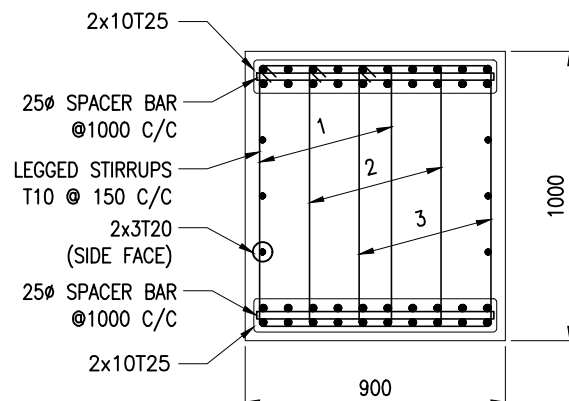
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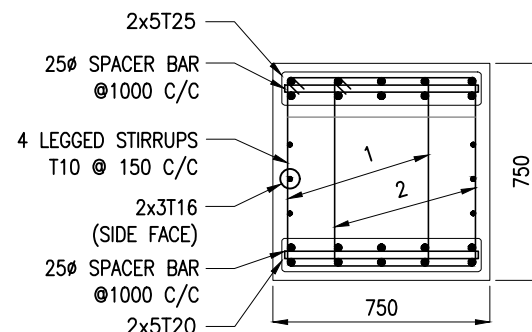
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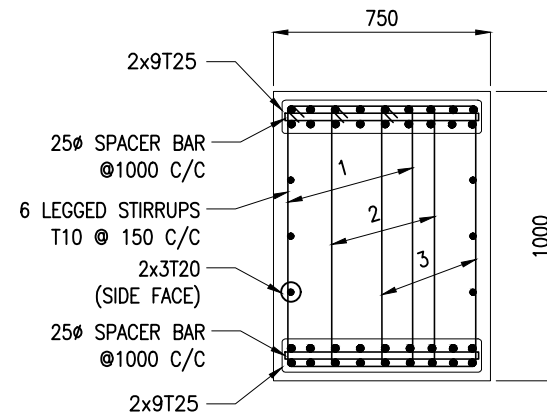
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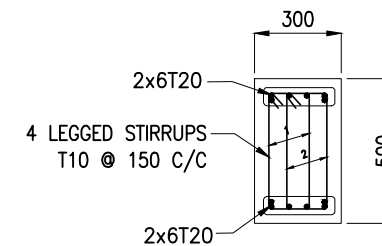
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SECTION H
(SCALE 1:25) SHT.04 & 07



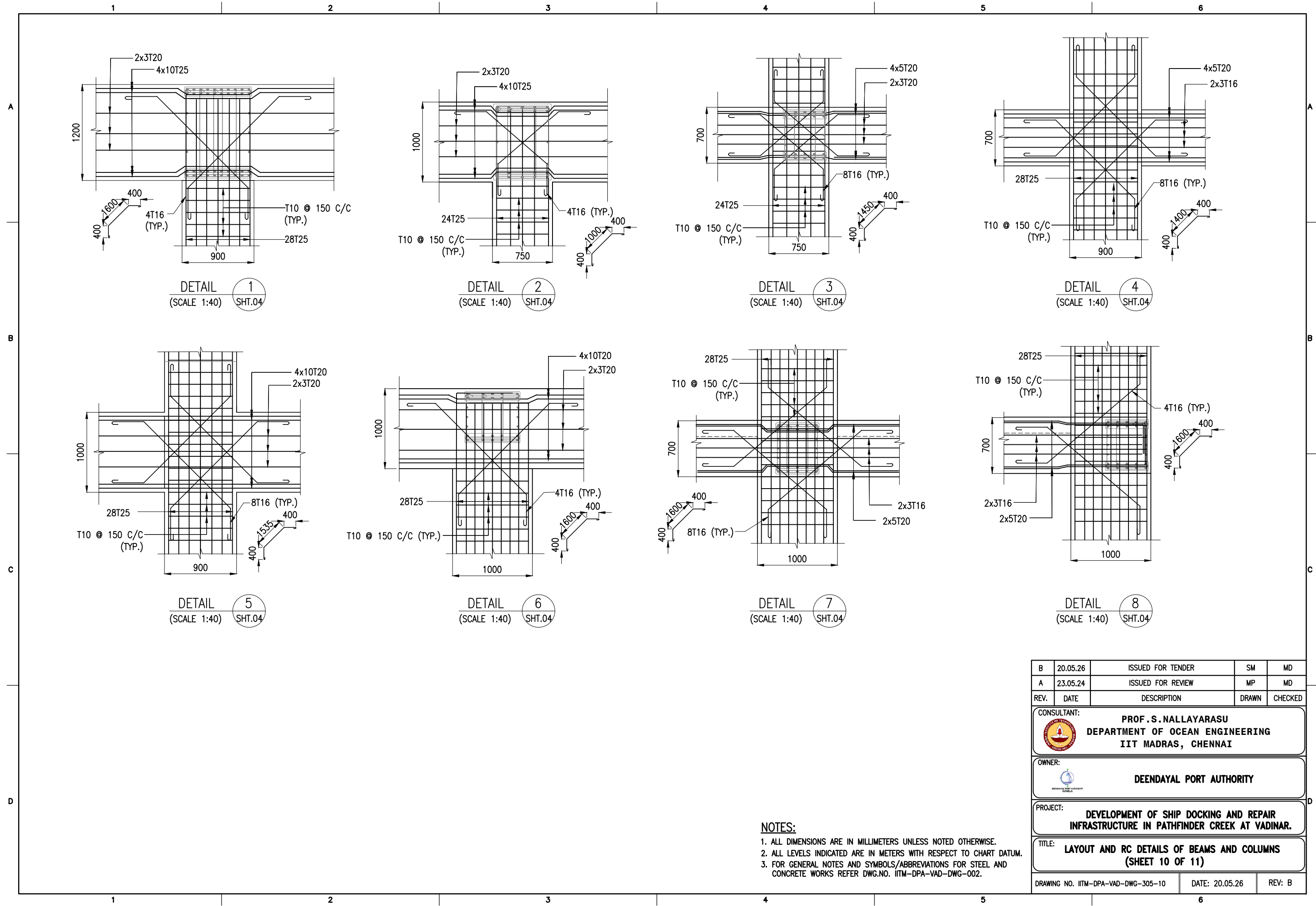
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SECTION L
(SCALE 1:25) SHT.07



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

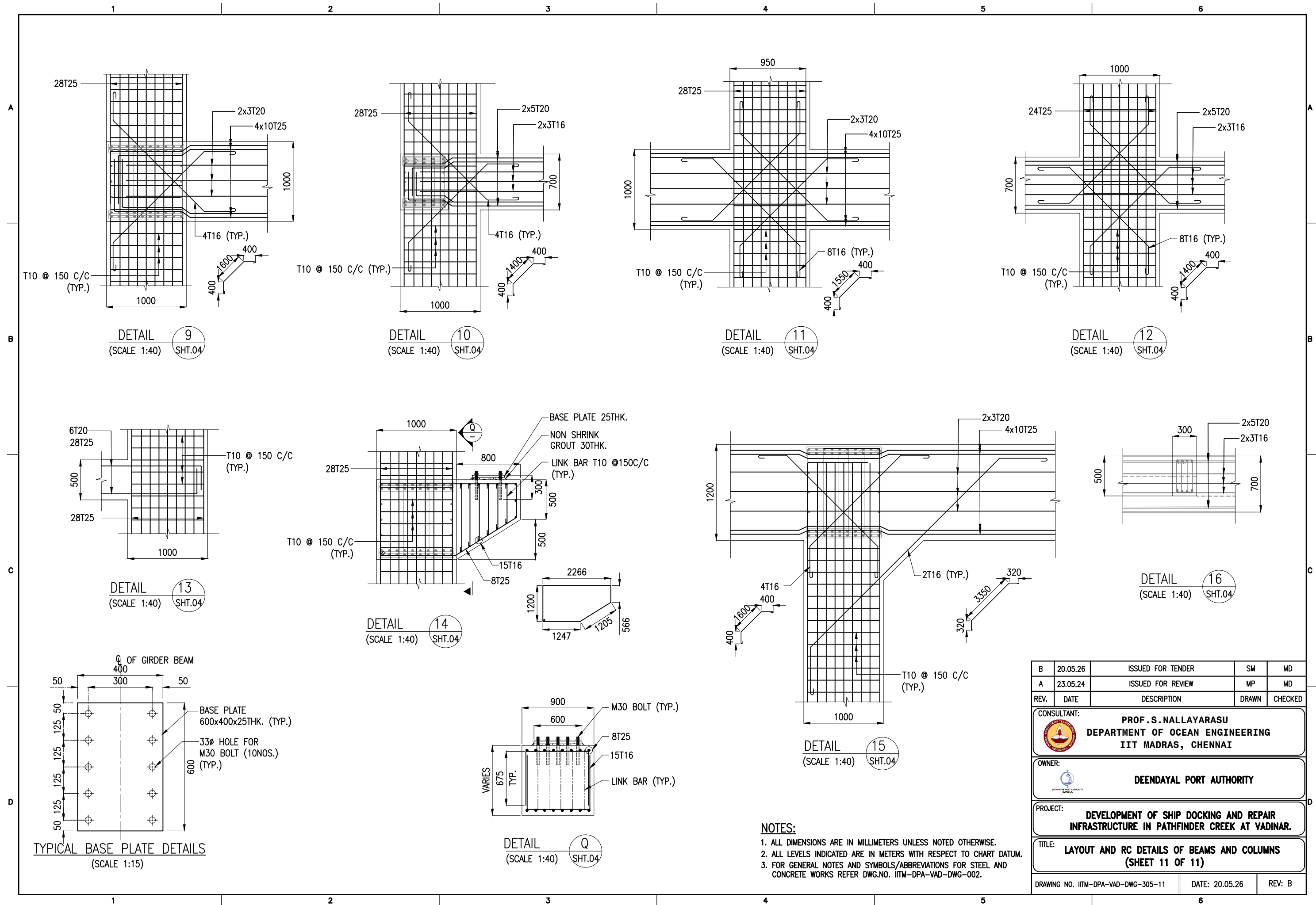
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 9 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-09			DATE: 20.05.26	REV: B



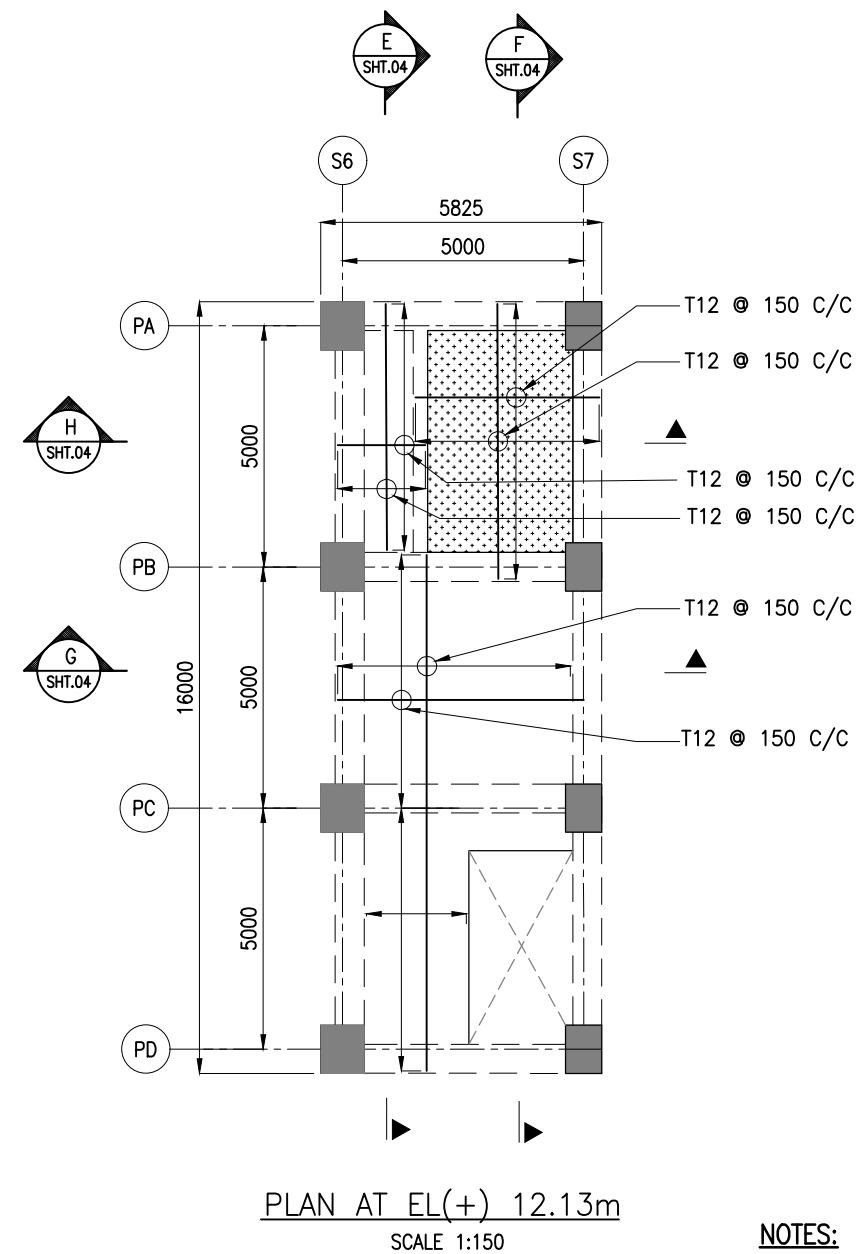
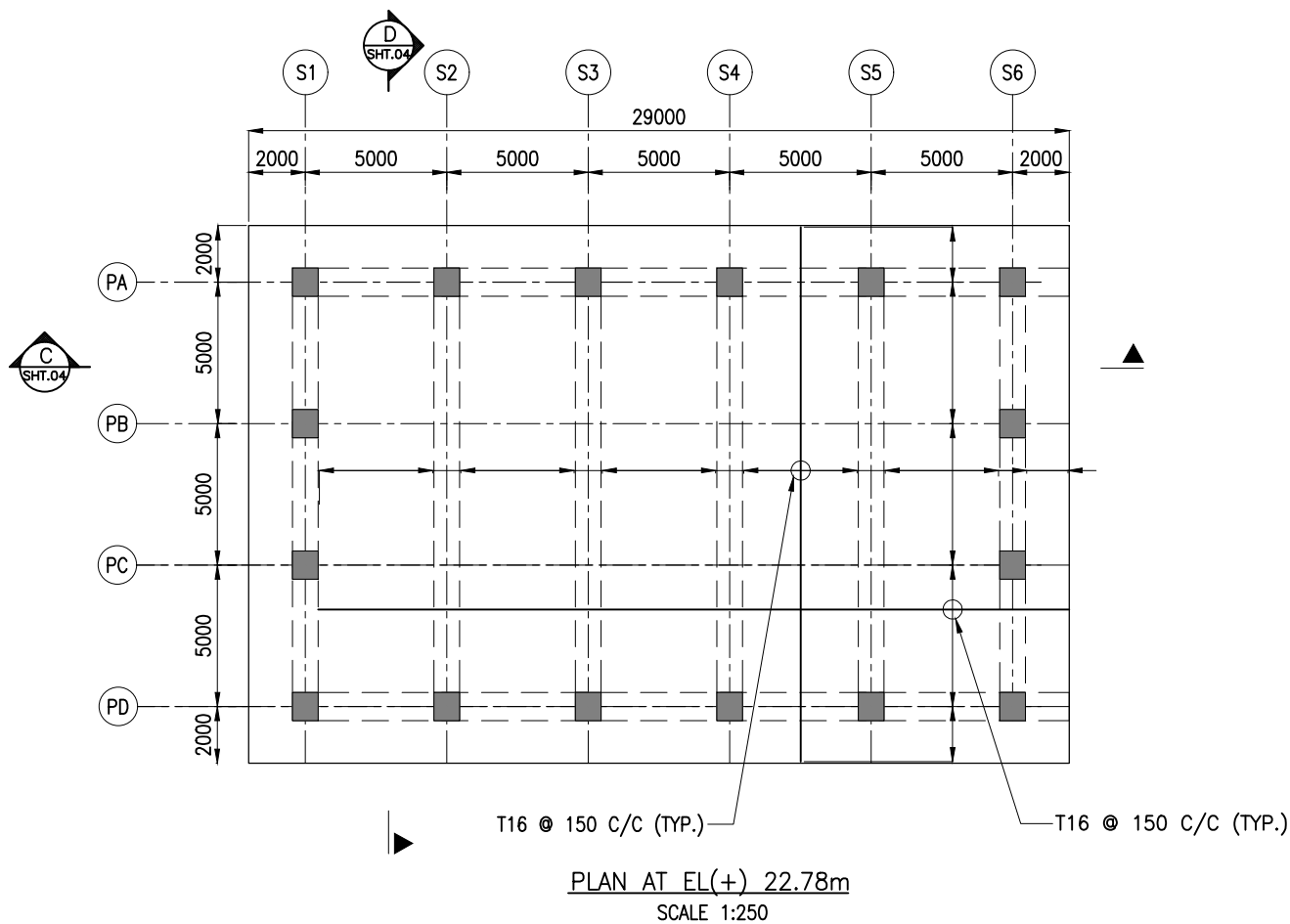
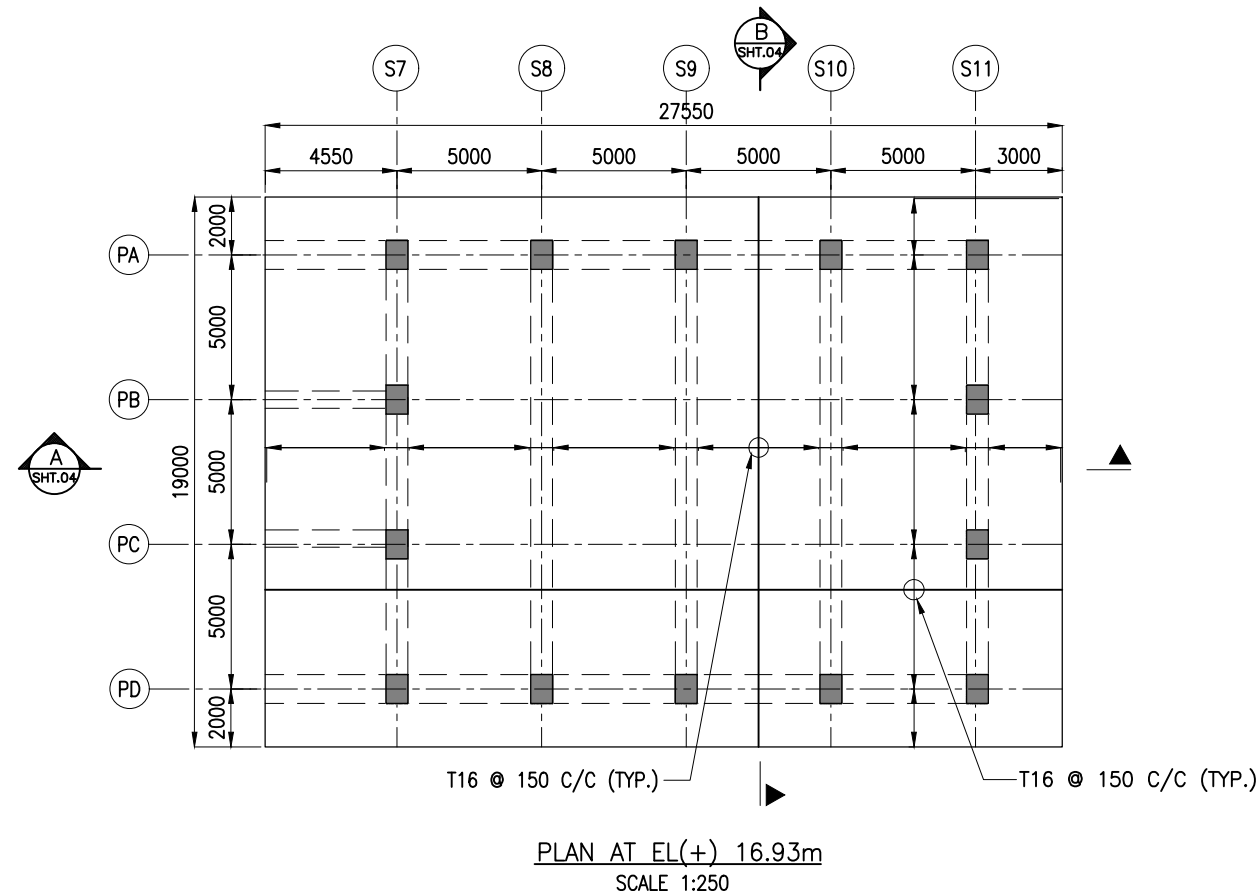
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 10 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-10			DATE: 20.05.26	REV: B

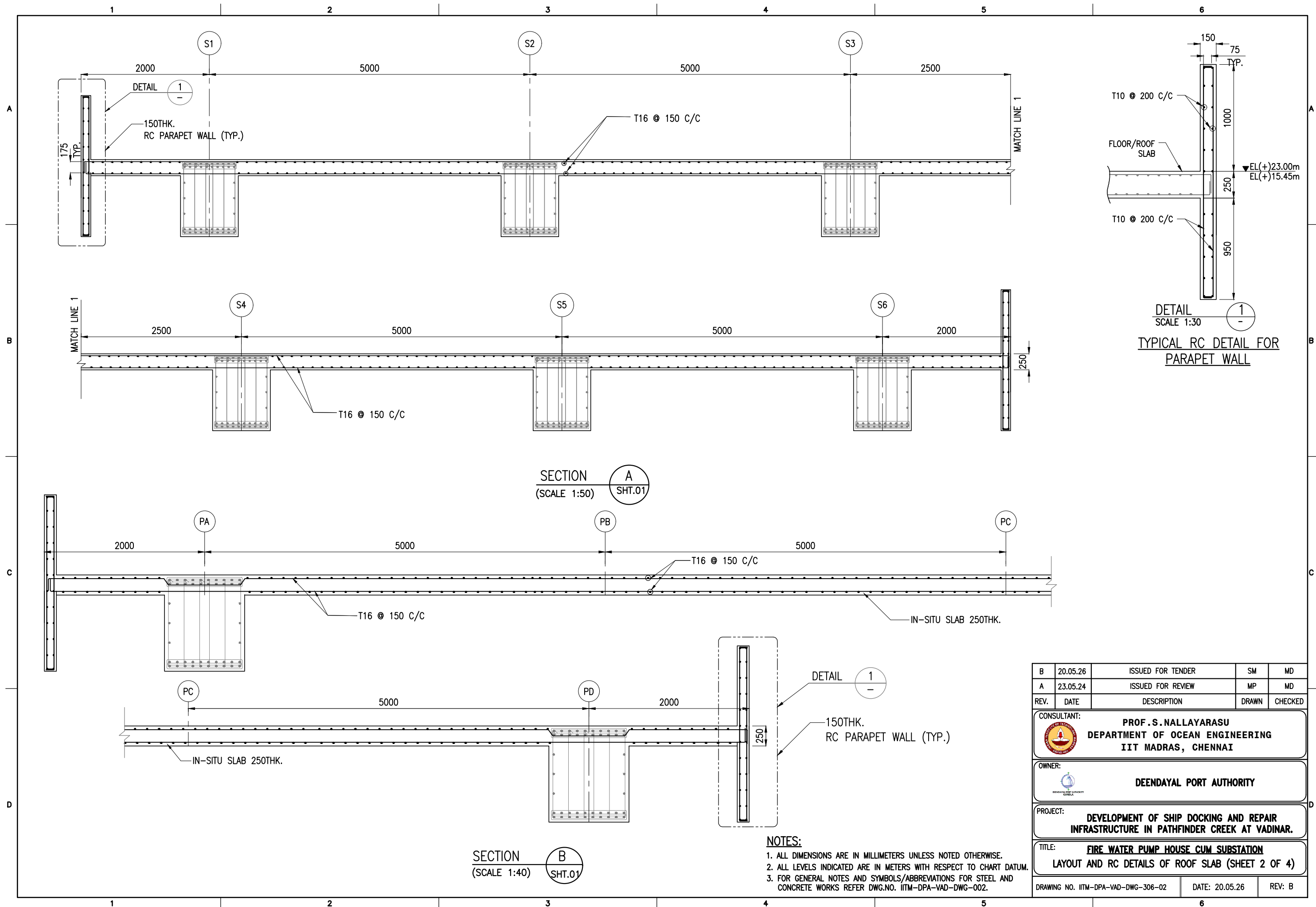


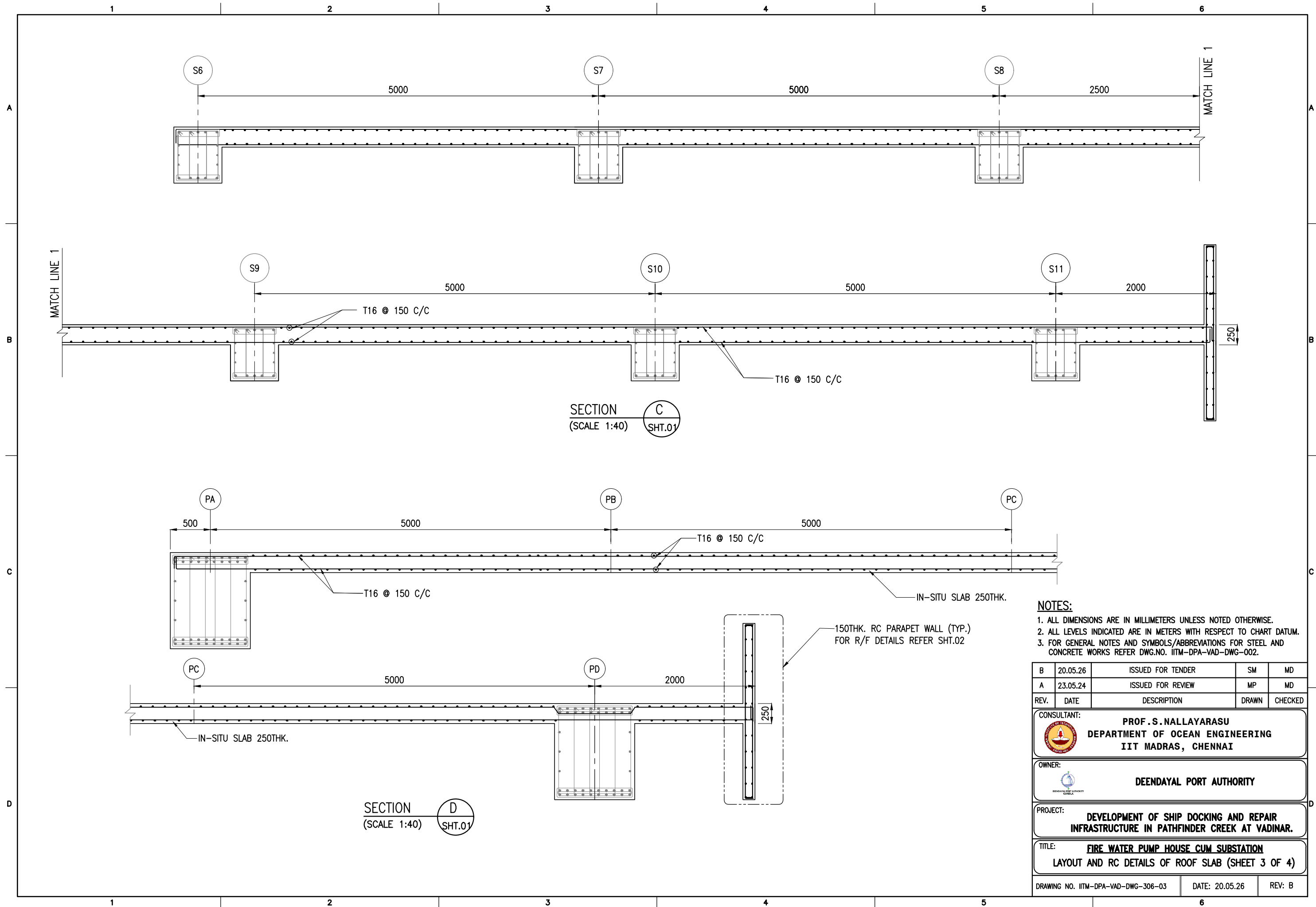
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CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: LAYOUT AND RC DETAILS OF BEAMS AND COLUMNS (SHEET 11 OF 11)				
DRAWING NO. IITM-DPA-VAD-DWG-305-11			DATE: 20.05.26	REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
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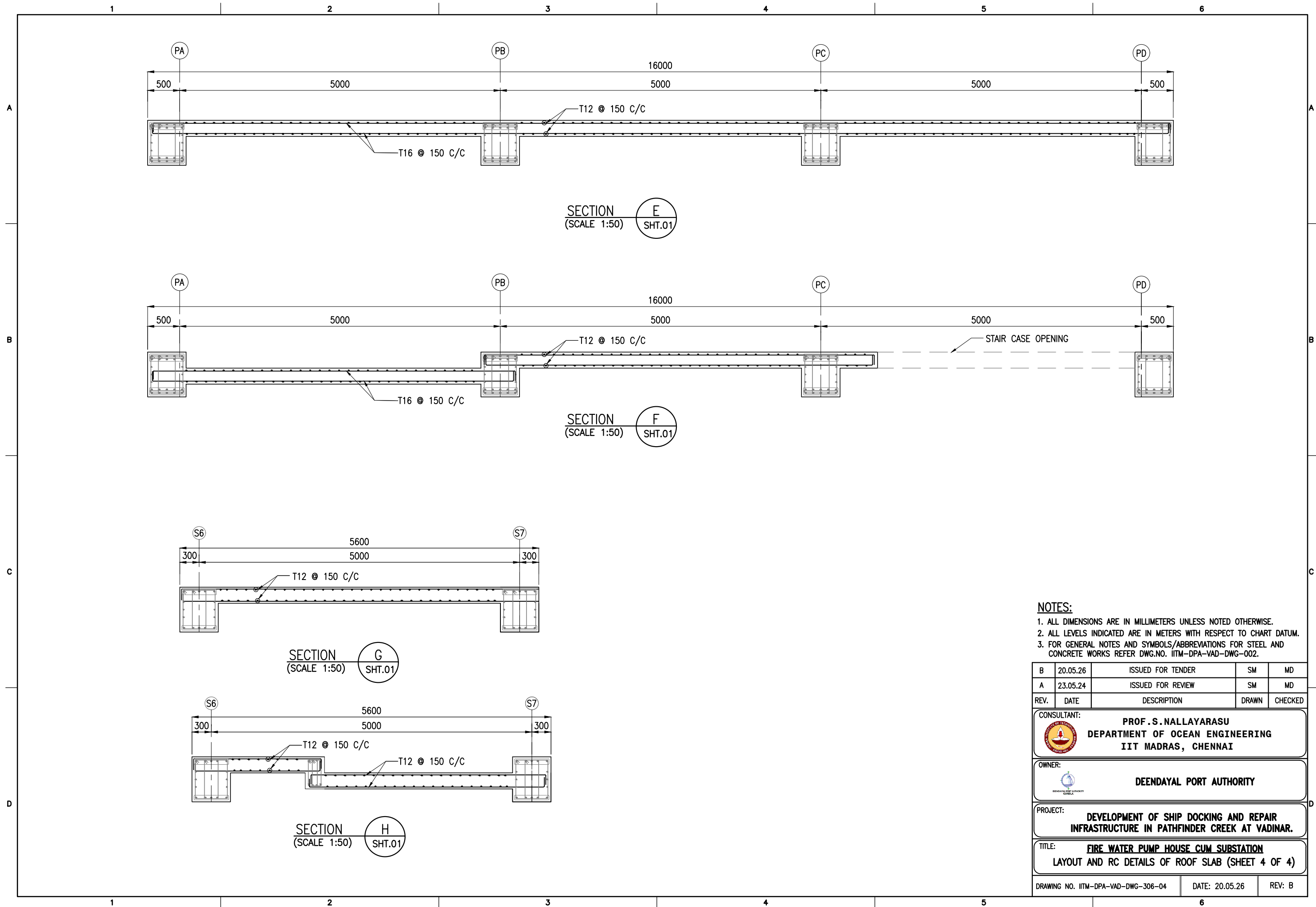
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CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 1 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-306-01		DATE: 20.05.26		REV: B





- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

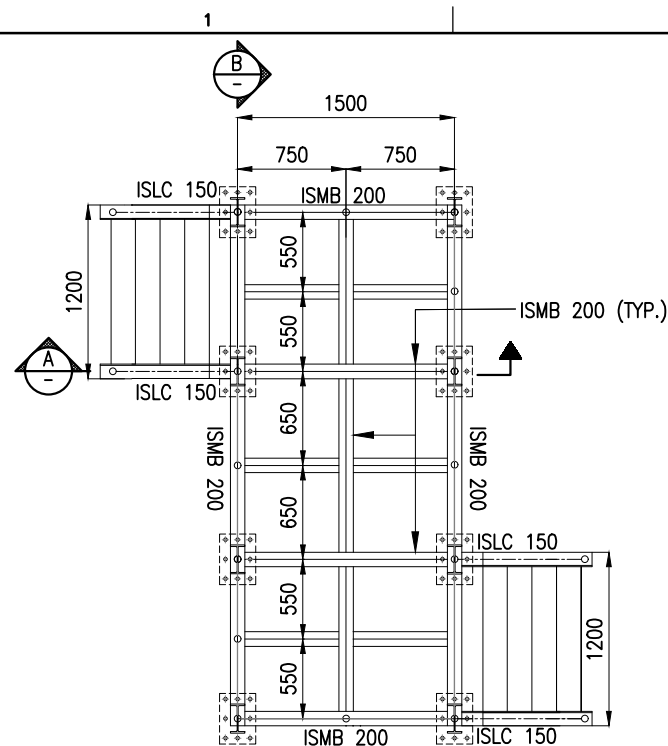
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CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 3 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-306-03		DATE: 20.05.26		REV: B



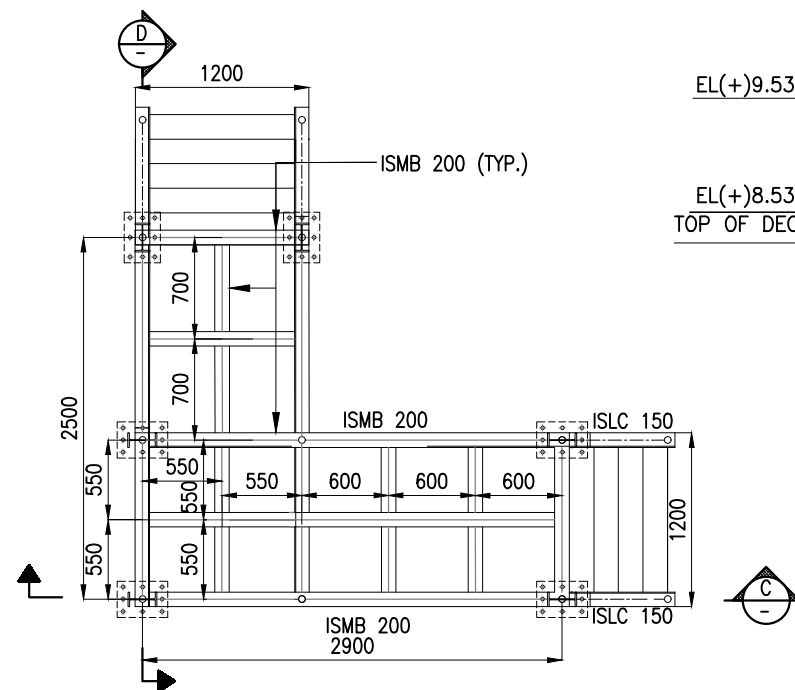
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
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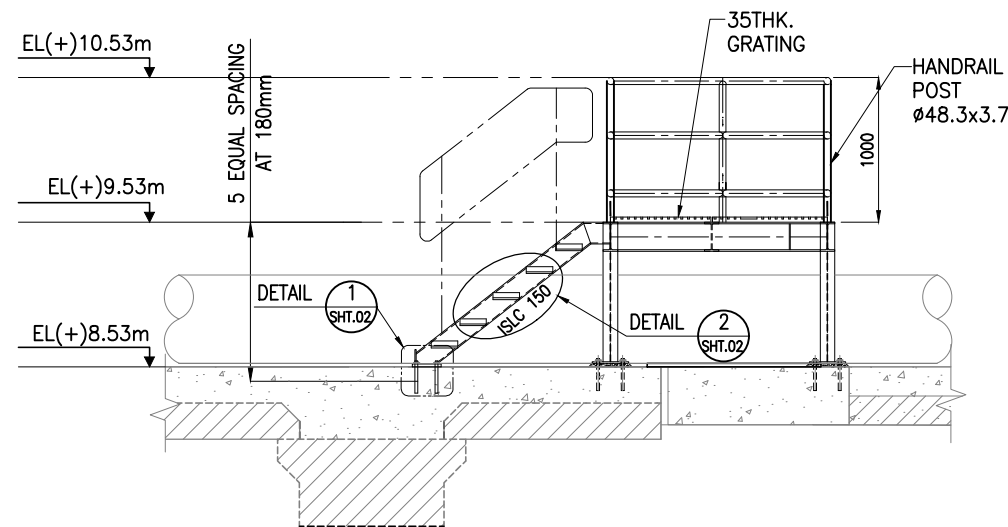
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CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF ROOF SLAB (SHEET 4 OF 4)				
DRAWING NO. IITM-DPA-VAD-DWG-306-04			DATE: 20.05.26	REV: B



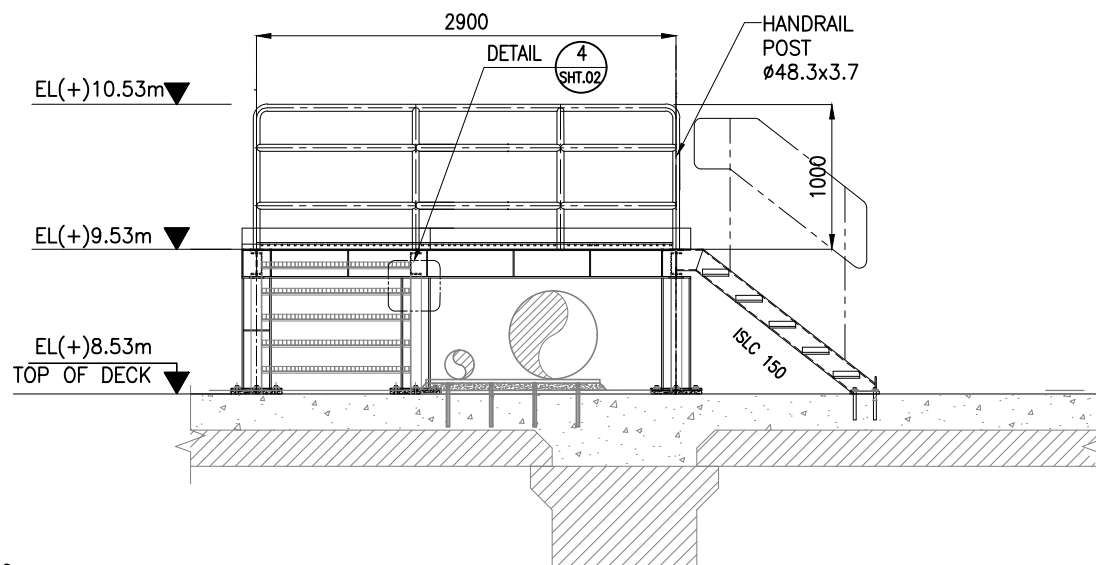
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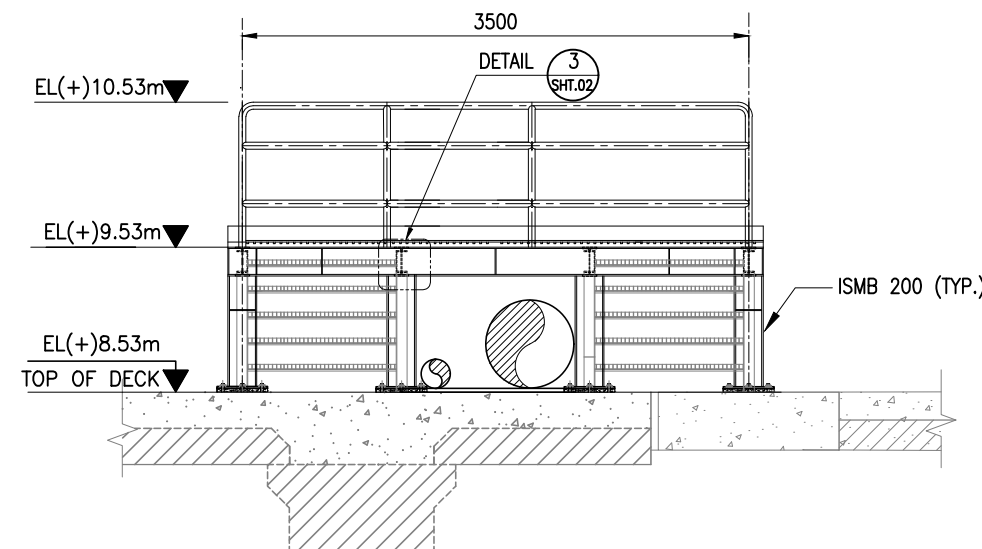
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(SCALE 1:50)



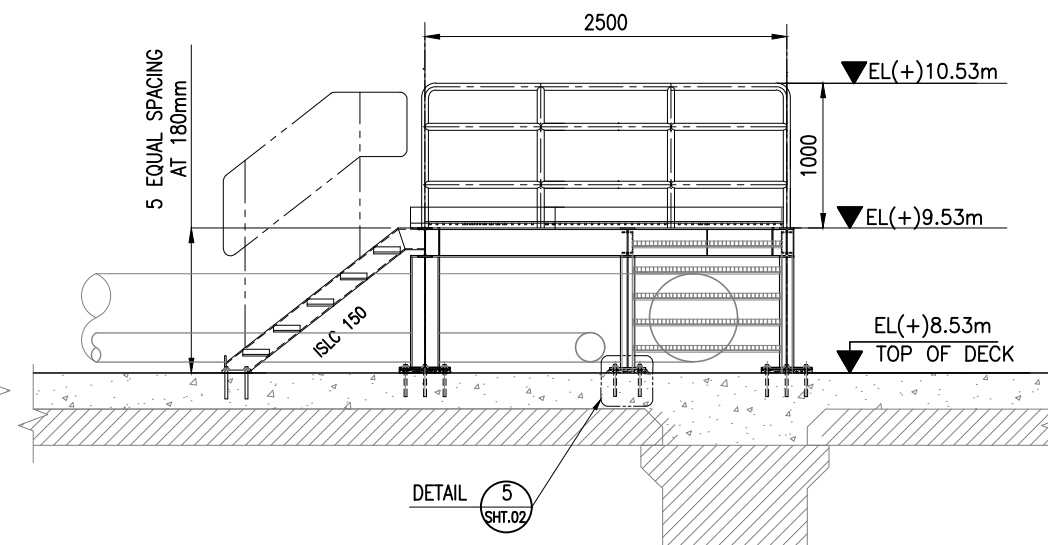
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SCALE 1:50



SECTION C
SCALE 1:50



SECTION B
SCALE 1:50

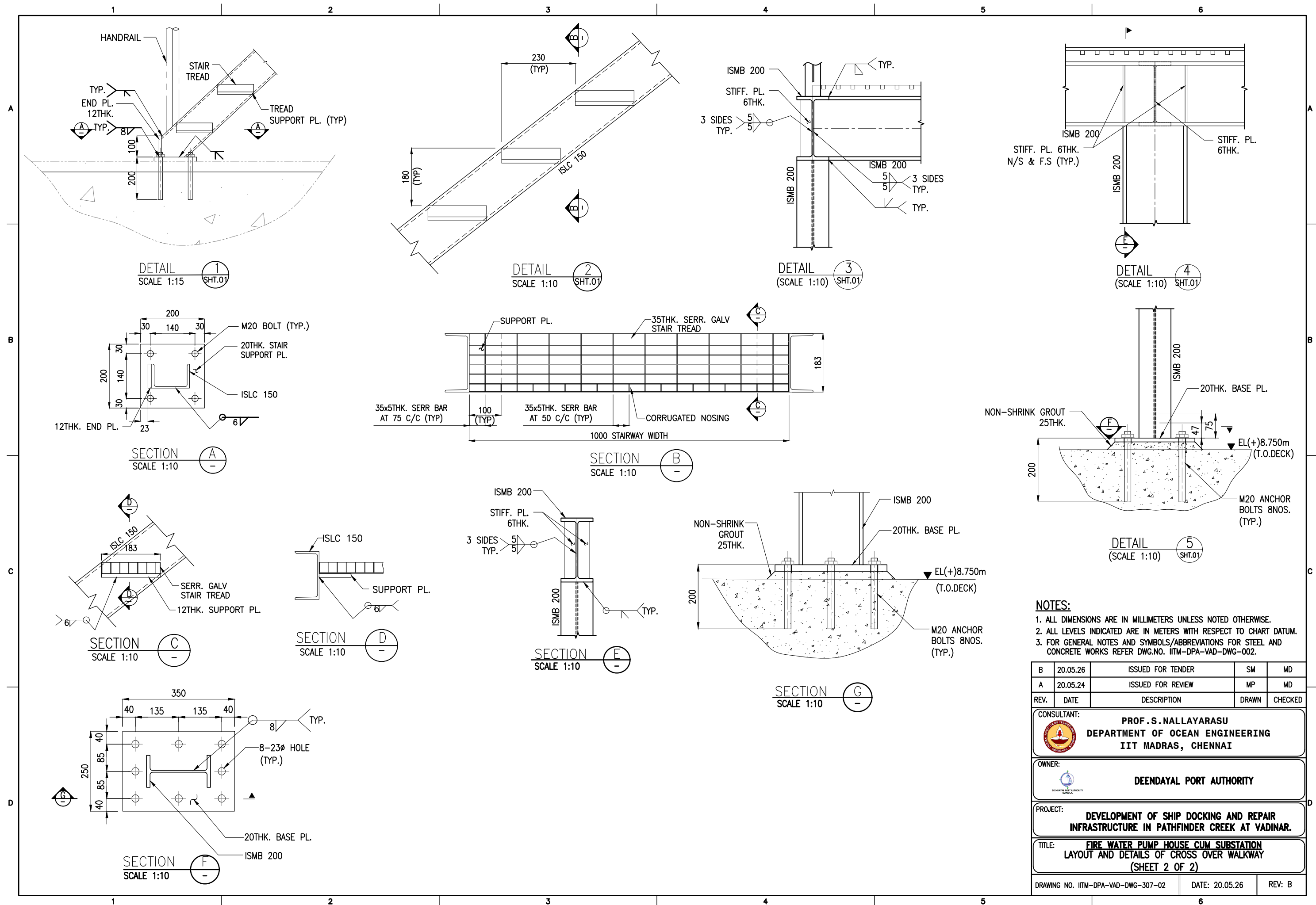


SECTION D
SCALE 1:50



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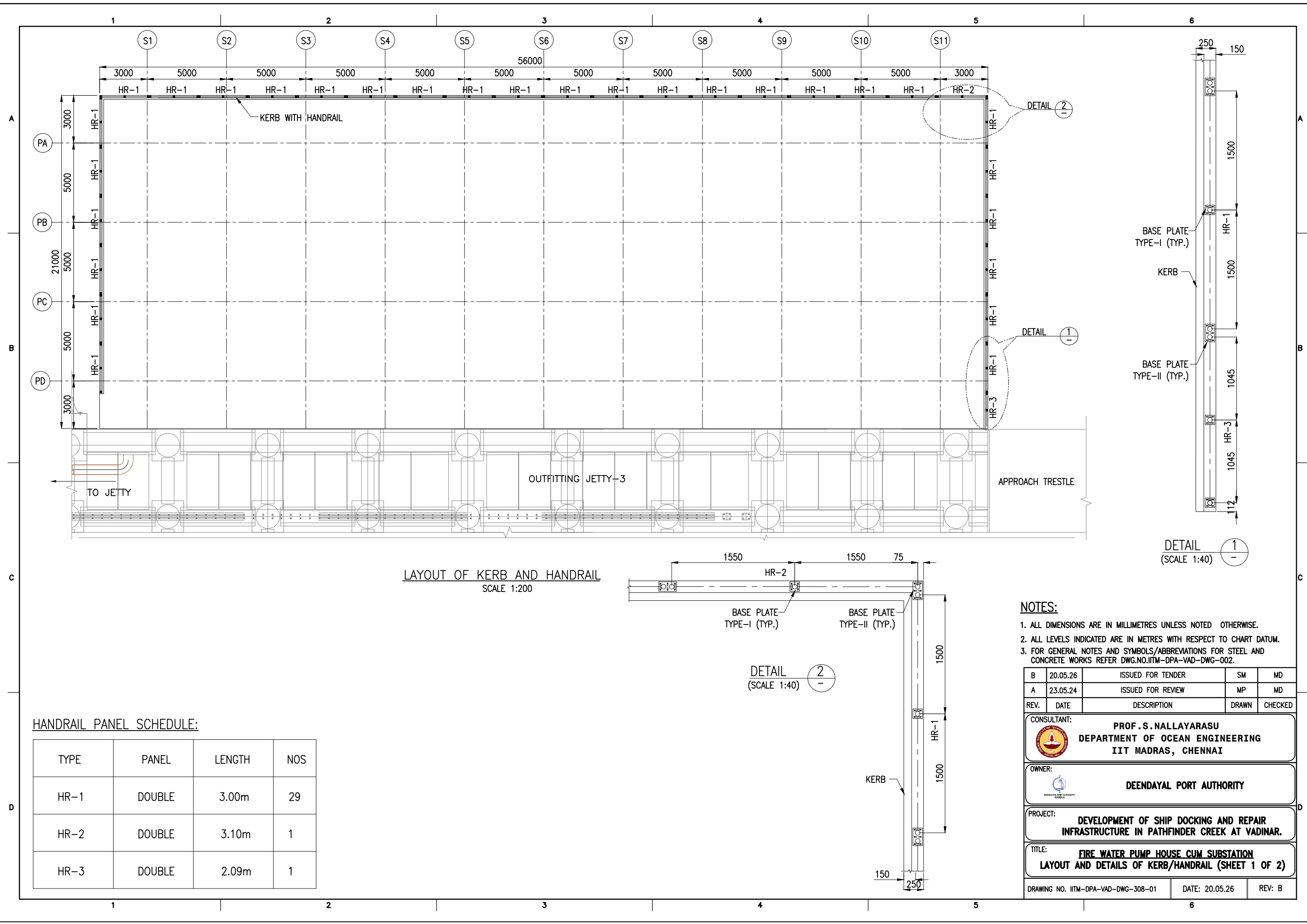
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND DETAILS OF CROSS OVER WALK WAY (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-307-01			DATE: 20.05.26	REV: B



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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A	20.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND DETAILS OF CROSS OVER WALKWAY (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-307-02			DATE: 20.05.26	REV: B



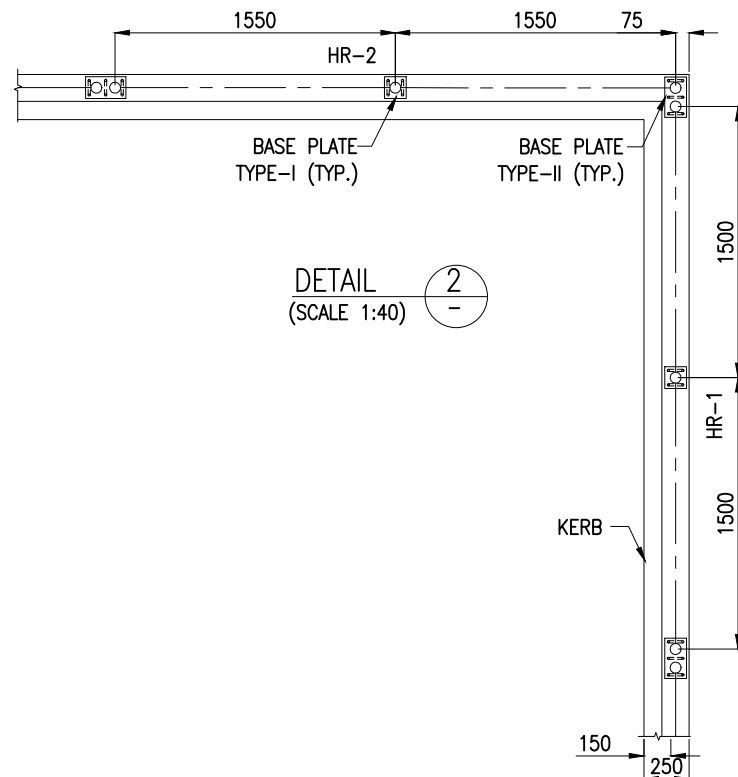
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D

HANDRAIL PANEL SCHEDULE:

TYPE	PANEL	LENGTH	NOS
HR-1	DOUBLE	3.00m	29
HR-2	DOUBLE	3.10m	1
HR-3	DOUBLE	2.09m	1

LAYOUT OF KERB AND HANDRAIL
SCALE 1:200



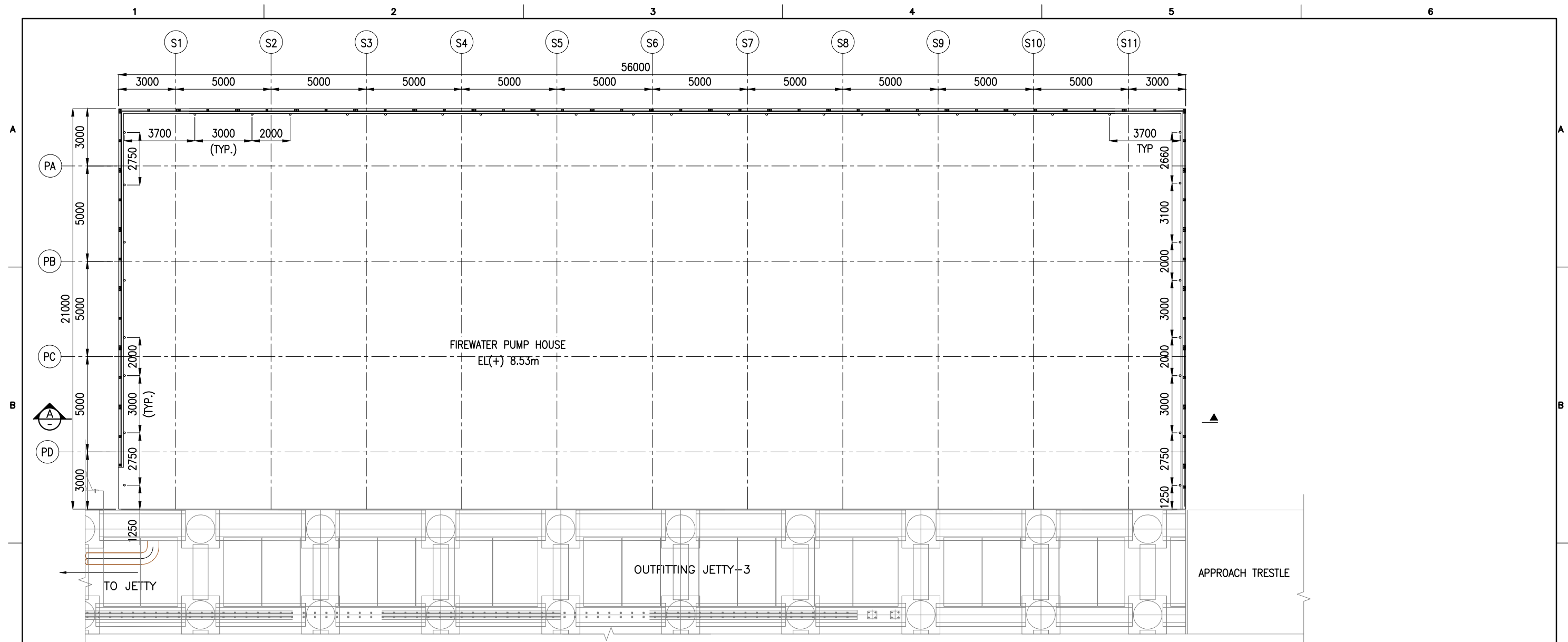
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(SCALE 1:40)

DETAIL 1
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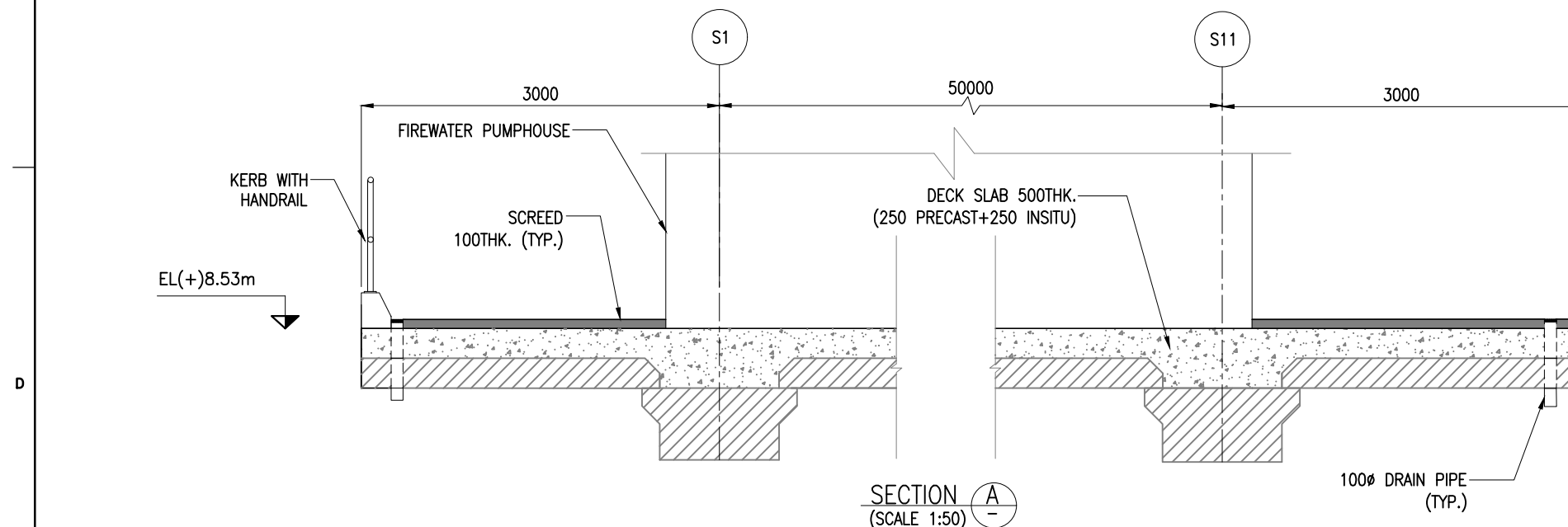
NOTES:

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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND DETAILS OF KERB/HANDRAIL (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-308-01		DATE: 20.05.26		REV: B



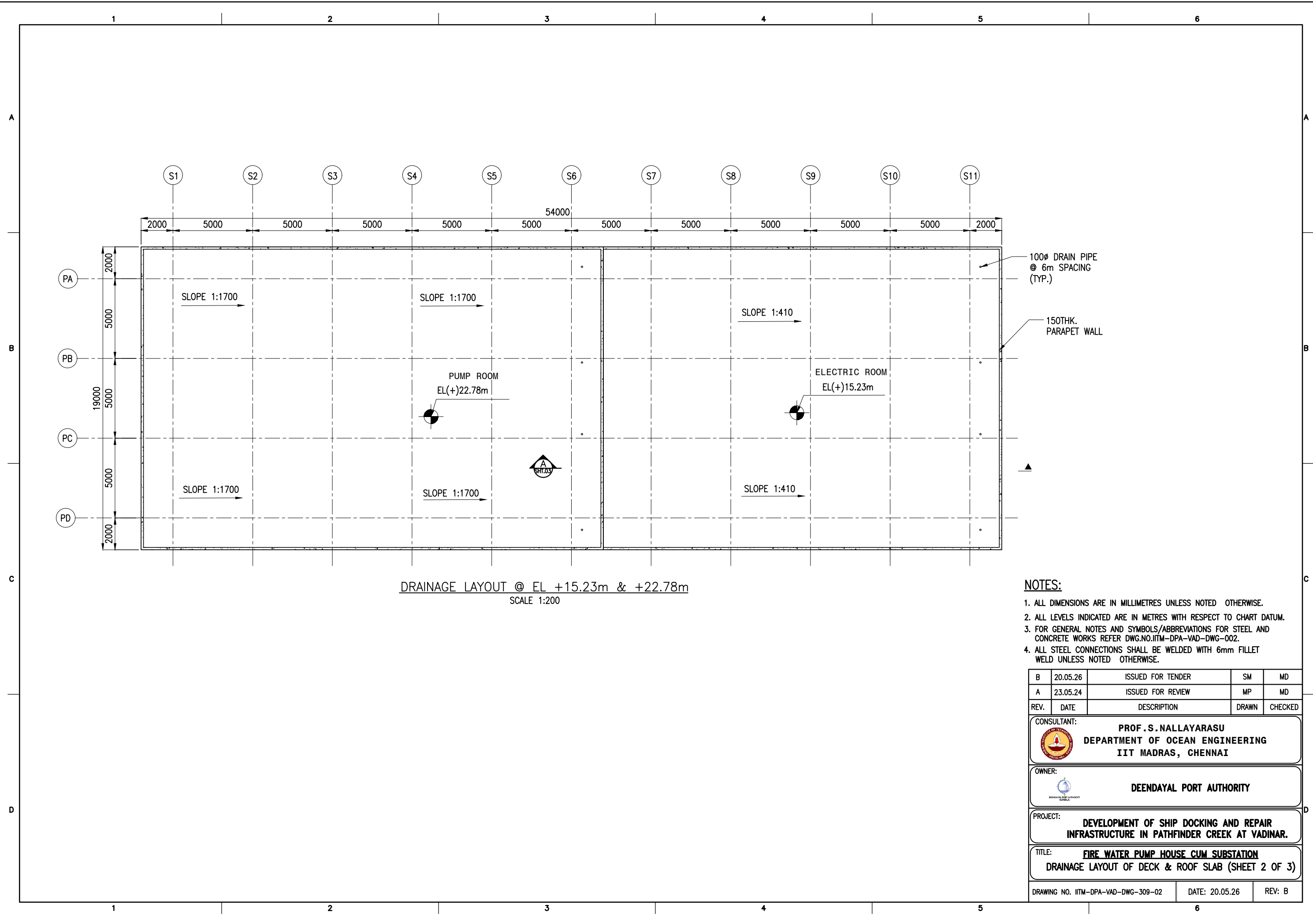
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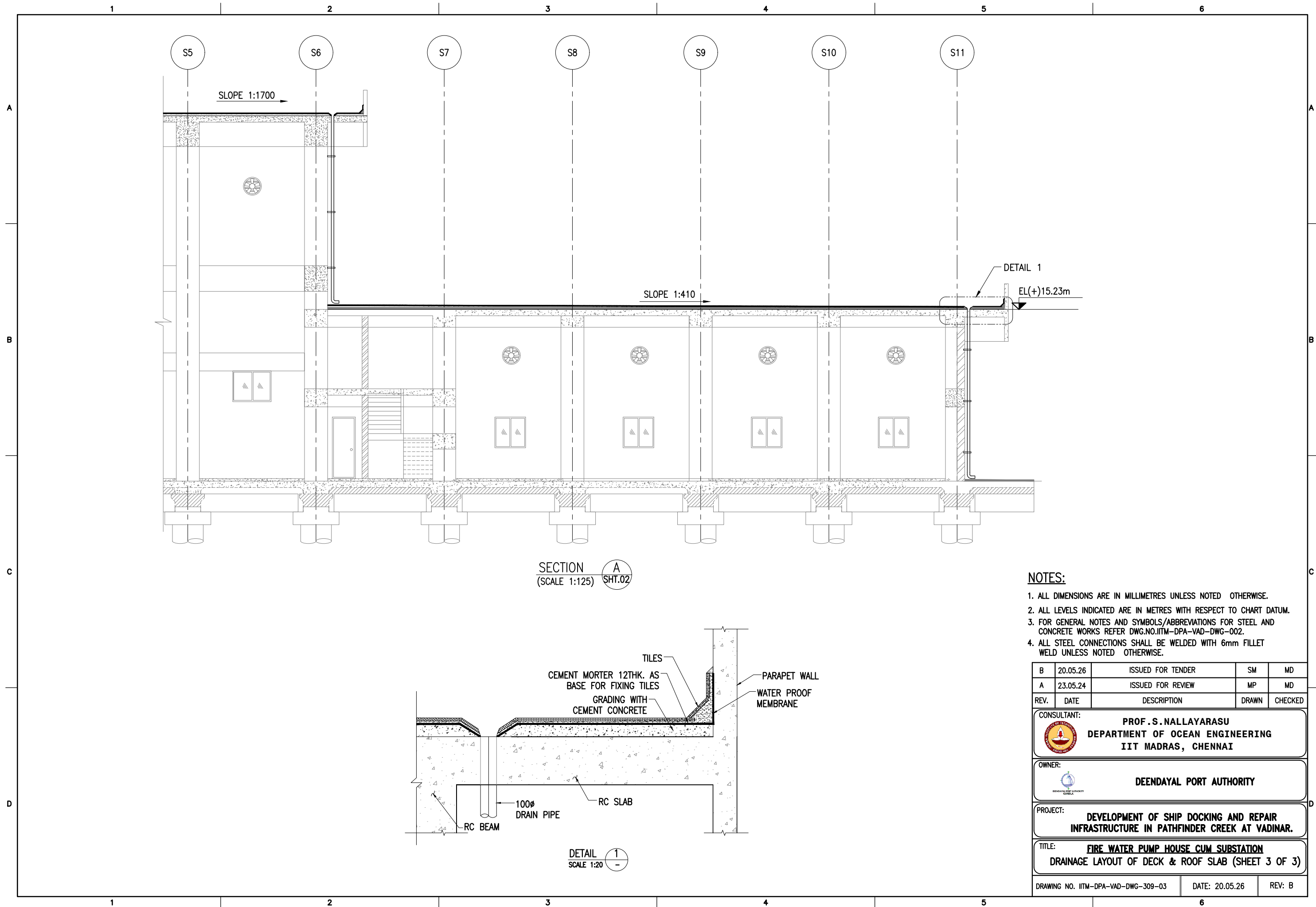


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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

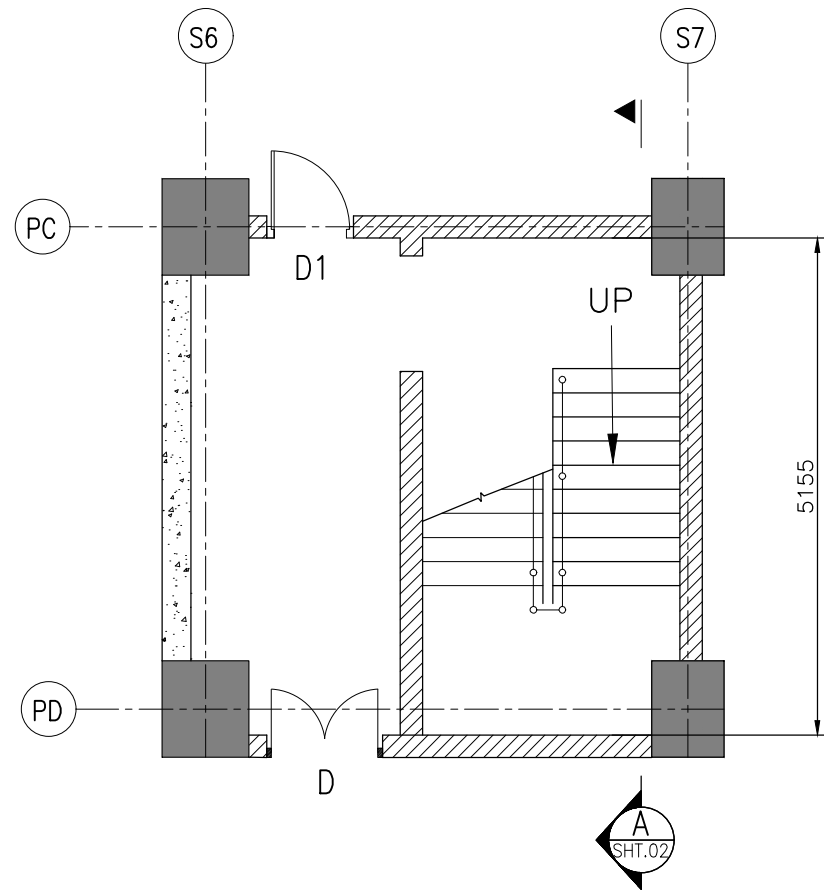
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION DRAINAGE LAYOUT OF DECK & ROOF SLAB (SHEET 1 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-309-01			DATE: 20.05.26	REV: B



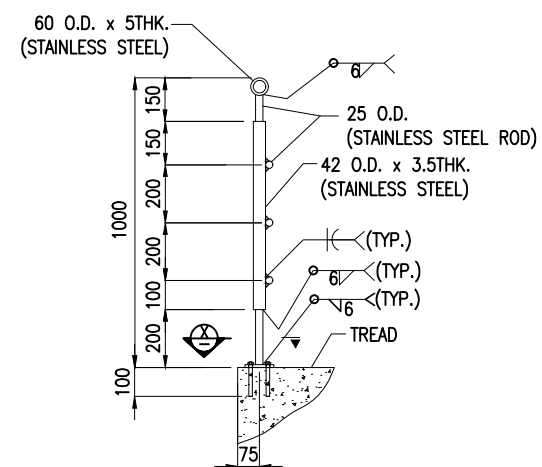


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1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.
4. ALL STEEL CONNECTIONS SHALL BE WELDED WITH 6mm FILLET WELD UNLESS NOTED OTHERWISE.

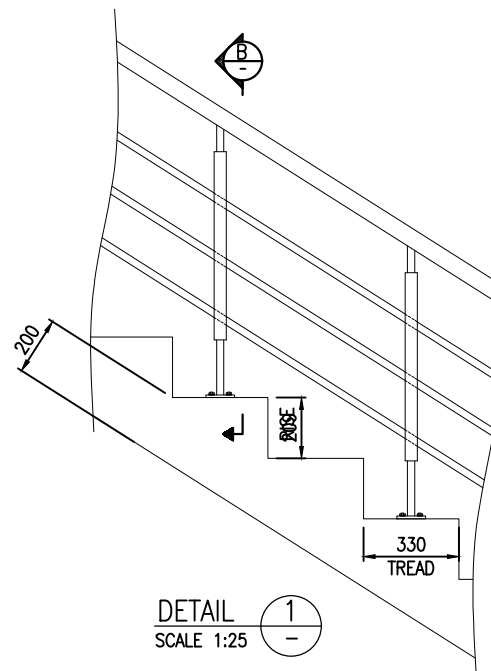
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: <div> PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI</div>				
OWNER: <div> DEENDAYAL PORT AUTHORITY</div>				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION DRAINAGE LAYOUT OF DECK & ROOF SLAB (SHEET 3 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-309-03		DATE: 20.05.26	REV: B	



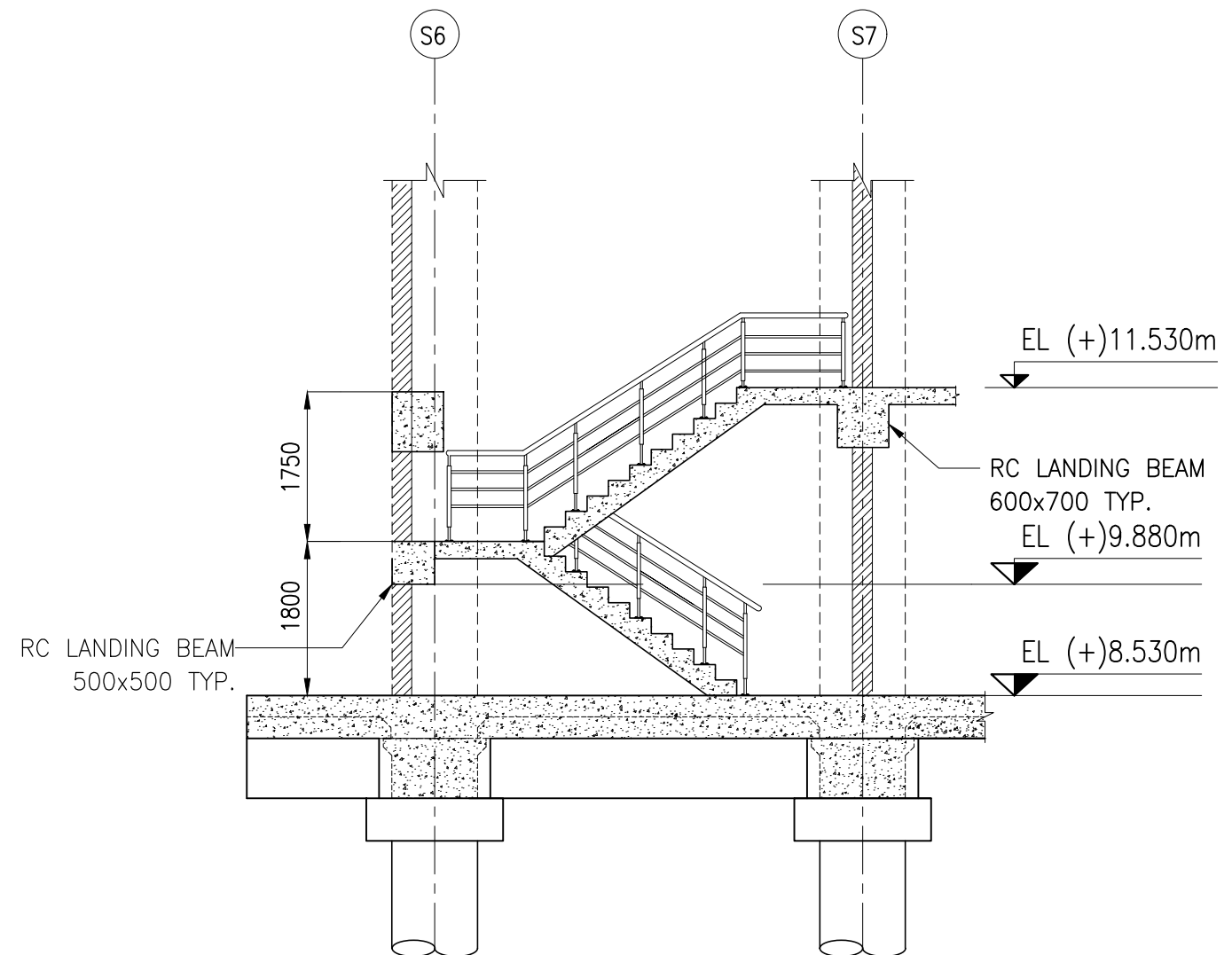
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SCALE 1:120



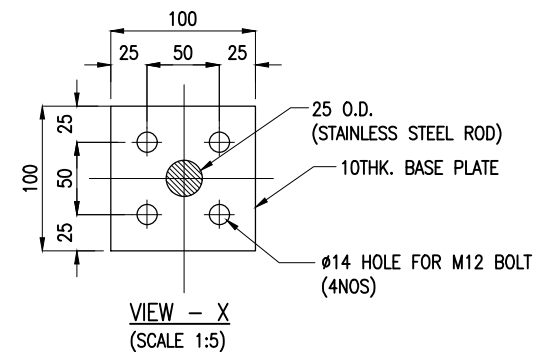
SECTION B
SCALE 1:25



DETAIL 1
SCALE 1:25





SECTION A
SCALE 1:120

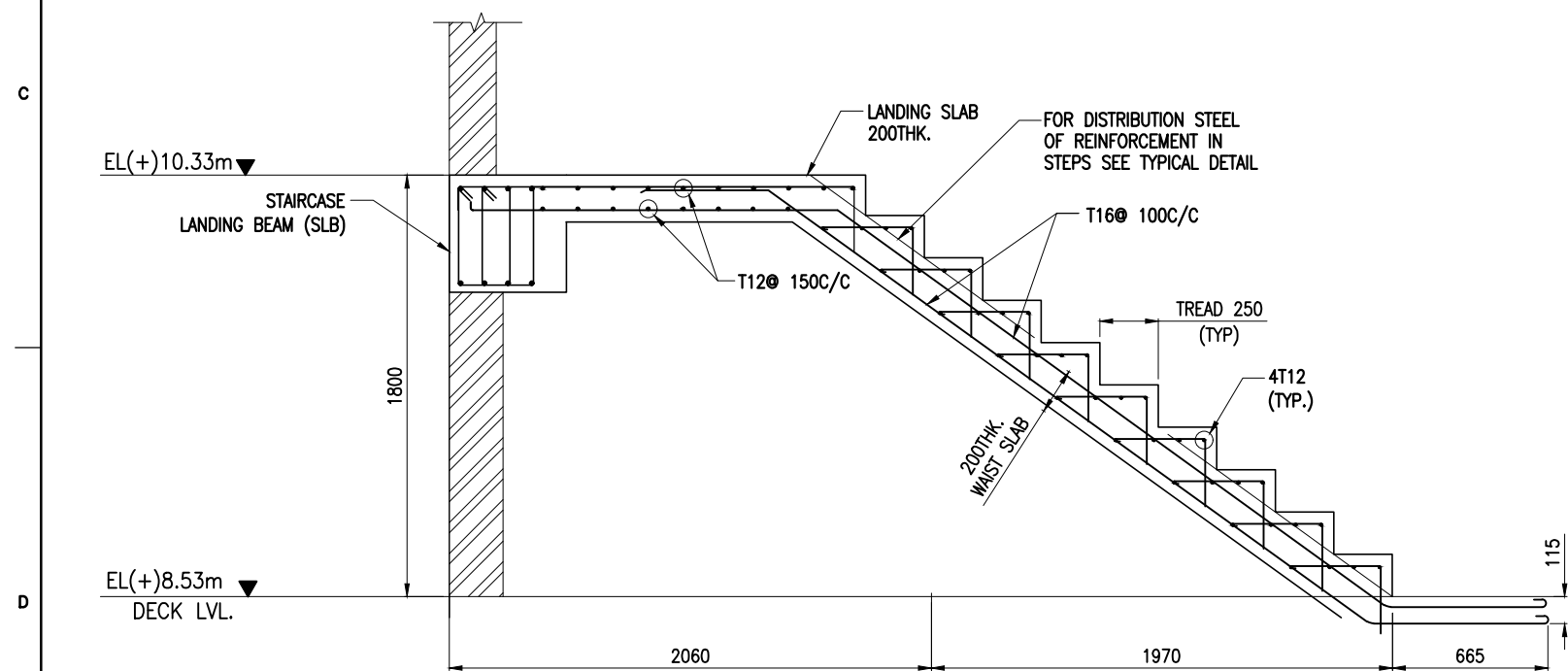
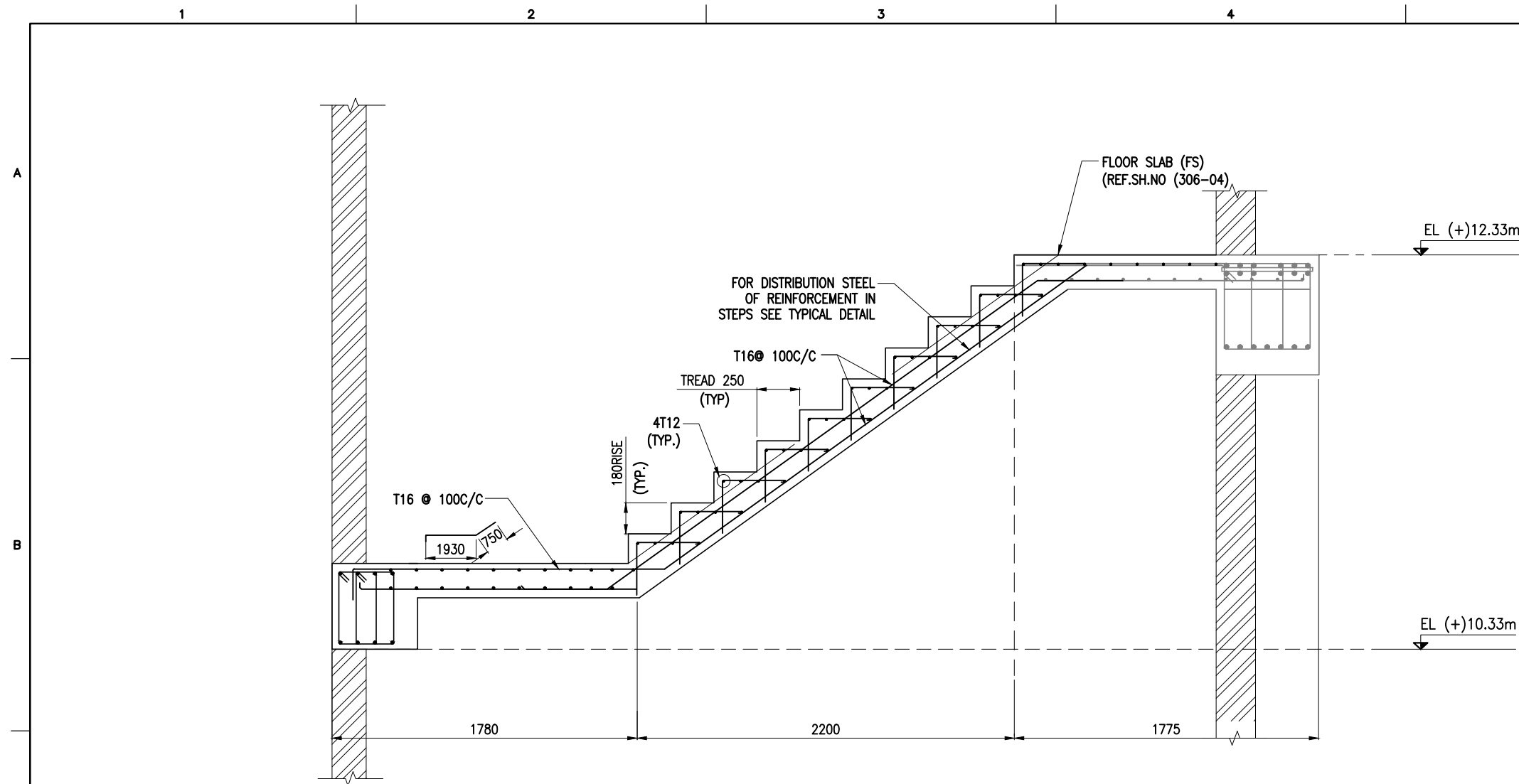


VIEW - X
SCALE 1:5

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.



B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF STAIRCASE (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-310-01		DATE: 20.05.26		REV: B

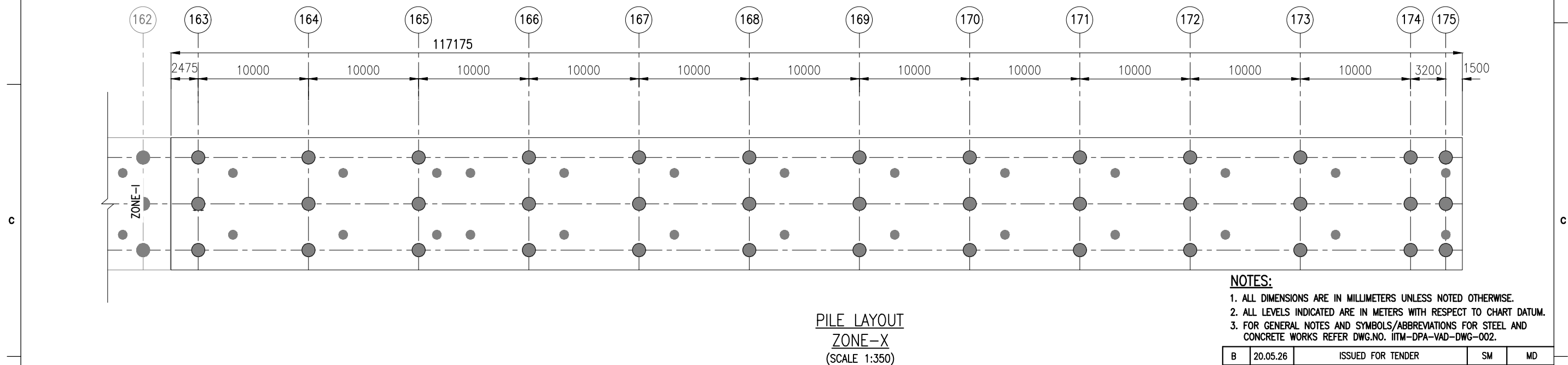
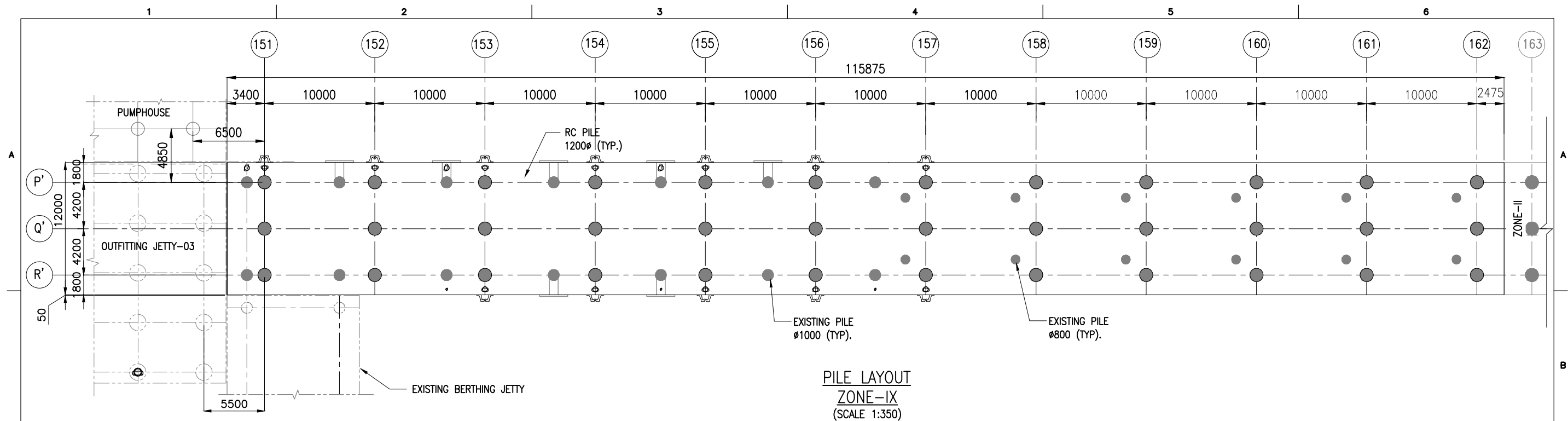


RC DETAILS OF FLIGHT
SCALE 1:30

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: FIRE WATER PUMP HOUSE CUM SUBSTATION LAYOUT AND RC DETAILS OF STAIRCASE (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-310-02		DATE: 20.05.26		REV: B





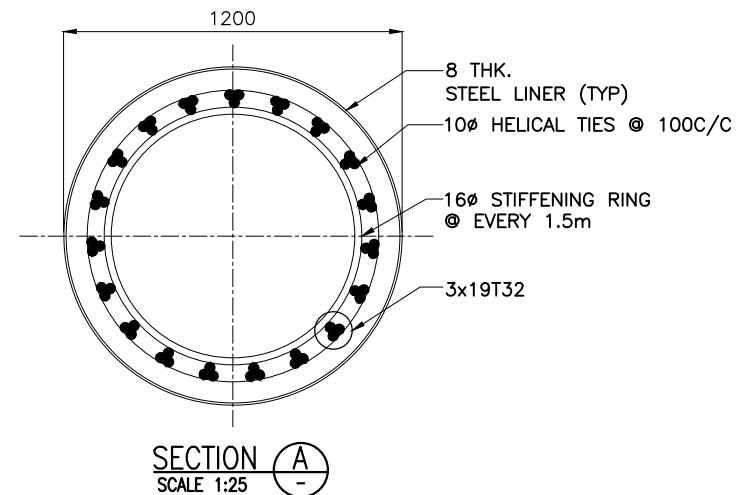
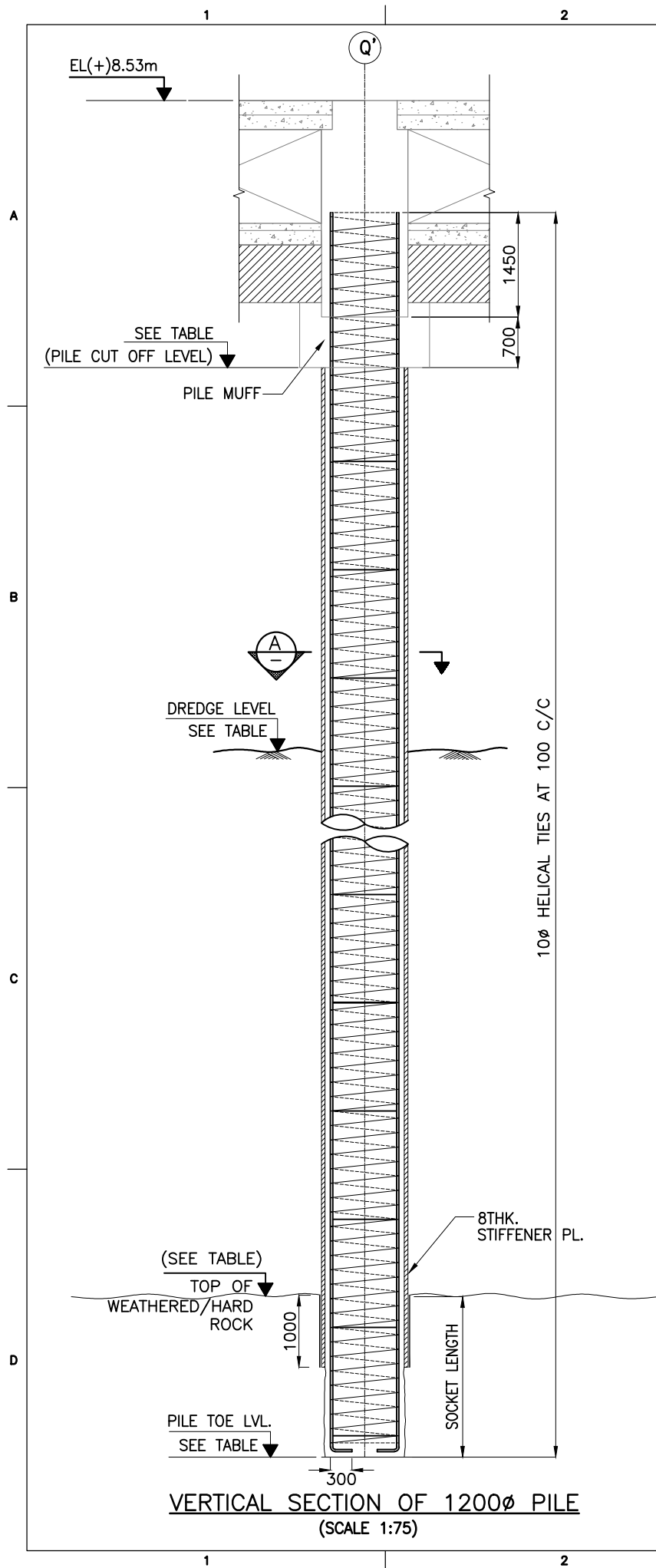
PILE SCHEDULE FOR APPROACH TRESTLE

GRID		PILE Ø (mm)	NO.OF PILES
P',Q' & R'	153 TO 177	1200	75

NOTES:

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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF PILE (SHEET 1 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-401-01		DATE: 20.05.26		REV: B





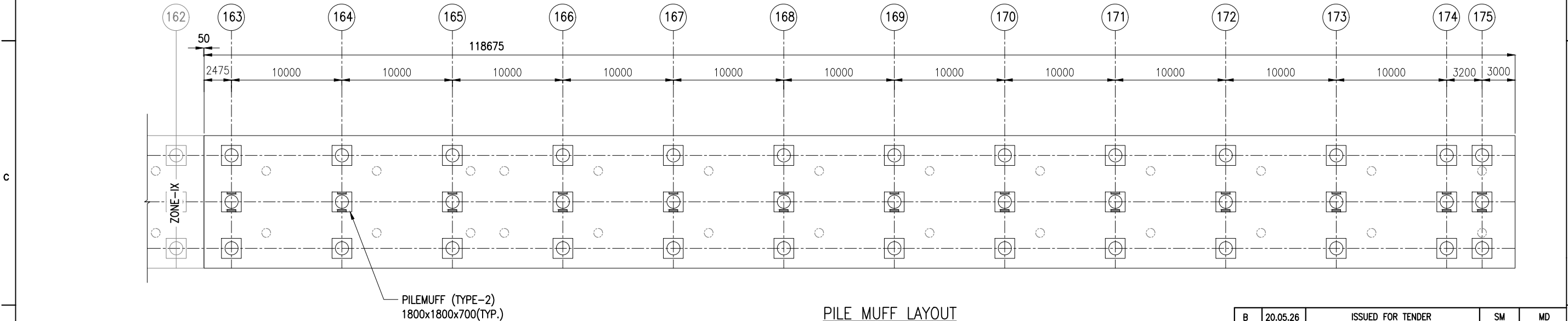
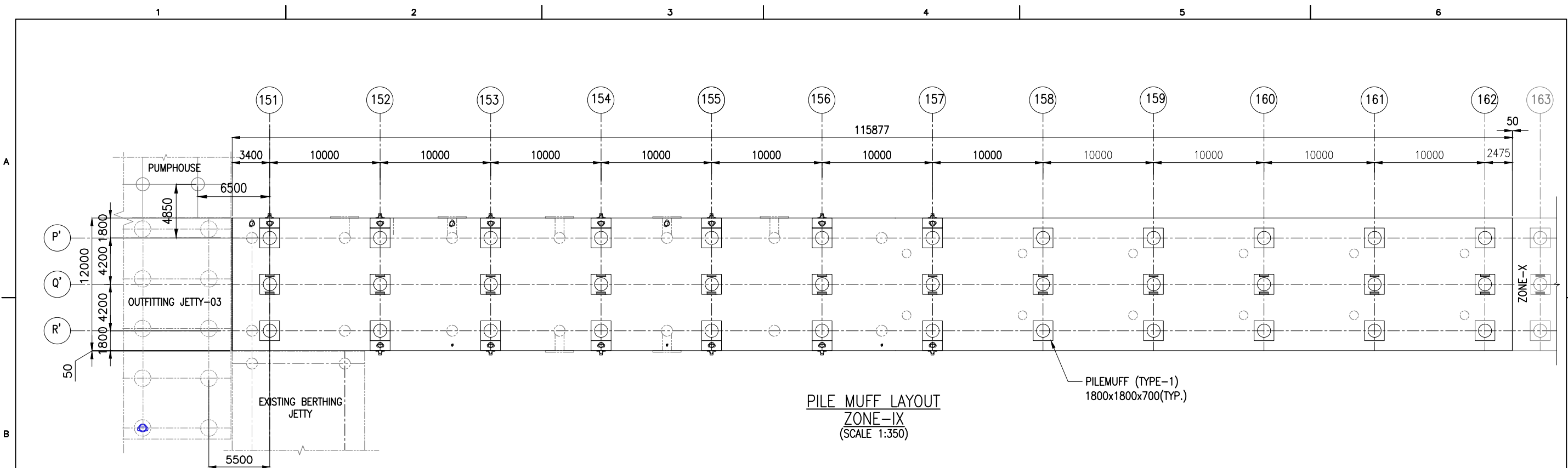
PILE SCHEDULE:

S.NO	GRID		PILE ϕ (mm)	NO. OF PILES	SEA BED LVL. (m)	ROCK LVL.(m)	BOTTOM OF LINER (m)	PILE CUT-OFF LVL. (m)	PILE TOE LVL. (m)	VERTICAL PILE WORKING LOAD (T)	HORIZONTAL PILE WORKING LOAD (T)
ZONE-I											
1	P'&R'	151 TO 162	1200	24	-1.0 TO -5.0	-18.0	-19.0	+4.00	-21.6	500	40
2	Q'	151 TO 162	1200	12	-1.0 TO -5.0	-18.0	-19.0	+4.83	-21.6	500	40
ZONE-II											
1	P'&R'	163 TO 174	1200	24	-1.0 TO -5.0	-18.0	-19.0	+4.00	-21.6	500	40
2	Q'	163 TO 174	1200	12	-1.0 TO -5.0	-18.0	-19.0	+4.83	-21.6	500	40
3	P,Q'& R'	175	1200	3	-1.0 TO -5.0	-18.0	-19.0	+1.00	-21.6	500	40
		TOTAL		75							

NOTES:

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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-DPA-VAD-DWG-002-01
- BARS TO BE BENT AFTER THE PLACING OF PILEMUFF AND PRECAST BEAM.
- LINER SHALL BE DRIVEN TO REFUSAL.
- THE SEABED AND ROCK LEVELS ARE BASED ON EXISTING GEOTECHNICAL DATA. THE ACTUAL ELEVATIONS SHALL BE ESTABLISHED BY SITE SPECIFIC BORE HOLE INVESTIGATION OR DURING PILING.
- PILE SHALL BE SOCKETED INTO HARD/WEATHERED ROCK. THE MINIMUM SOCKET LENGTH SHALL BE AS FOLLOWS:
 - 6 TIMES THE DIAMETER IN TO SOFT OR WEATHERED ROCK.
 - 3 TIMES THE DIAMETER IN TO HARD ROCK.
 - A COMBINATION OF SOFT/WEATHERED AND HARD/INTACT ROCK THE DEPTH TO BE DETERMINED BASED ON CASE TO CASE BASIS BY THE ENGINEER'S REPRESENTATIVE. THE DECISION OF ENGINEER'S REPRESENTATIVE/CONSULTANT IS FINAL.
- THE ROCK LEVEL SHALL BE DETERMINED BASED ON THE FOLLOWING CRITERIA.
 - SPT EXCEEDING
 - INTACT/HARD ROCK - 100
 - WEATHERED/SOFT ROCK - 50
 - CHISELLING/BORING ENERGY CALCULATED AS PER IRC78.
 - INTACT/HARD ROCK - 250 Tm/m²/cm
 - WEATHERED/SOFT ROCK - 150 Tm/m²/cm
- THE PILE TERMINATION LEVELS SHOWN IN THIS DRAWING IS APPROXIMATE AND MAY VARY DEPENDING ON HARD ROCK LEVELS.
- STRUCTURAL STEEL FOR LINER SHALL CONFORM TO IS:2062 GRADE E250.
- PILE SHALL BE CAST 600mm HIGHER THAN THE PILE CUT-OFF LEVEL AND OVERFLOW OF CONCRETE SHALL BE OBSERVED AND THE ADDITIONAL LENGTH OF PILE SHALL BE CUT AFTER 28 DAYS OF CASTING THE PILE.

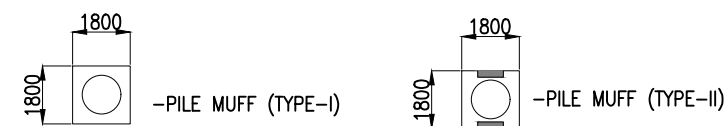
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	RN	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF.S.NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF PILE (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-401-02		DATE: 20.05.26		REV: B



SCHEDULE FOR PRECAST PILE MUFF:

TYPE	SIZE (mm)	WEIGHT (T)	NOS.	REMARKS
TYPE-1	1800x1800x700	3.67	37	AT GRID P'&R' -158 TO 175. AT GRID R' -151
TYPE-2	1800x1800x700	3.84	25	AT GRID Q' -151 TO 175

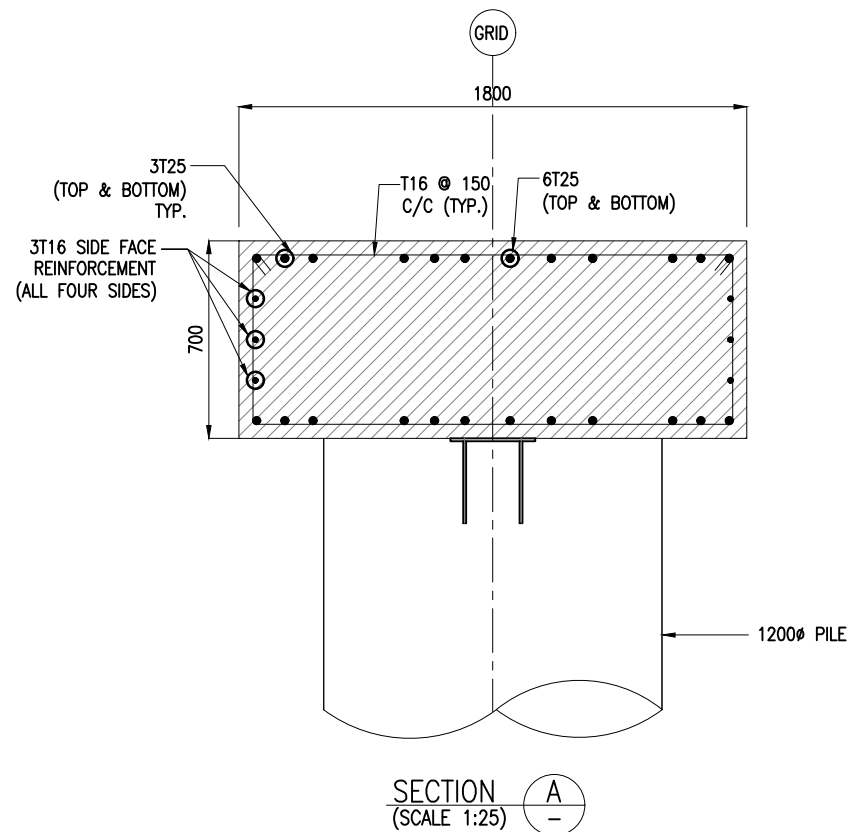
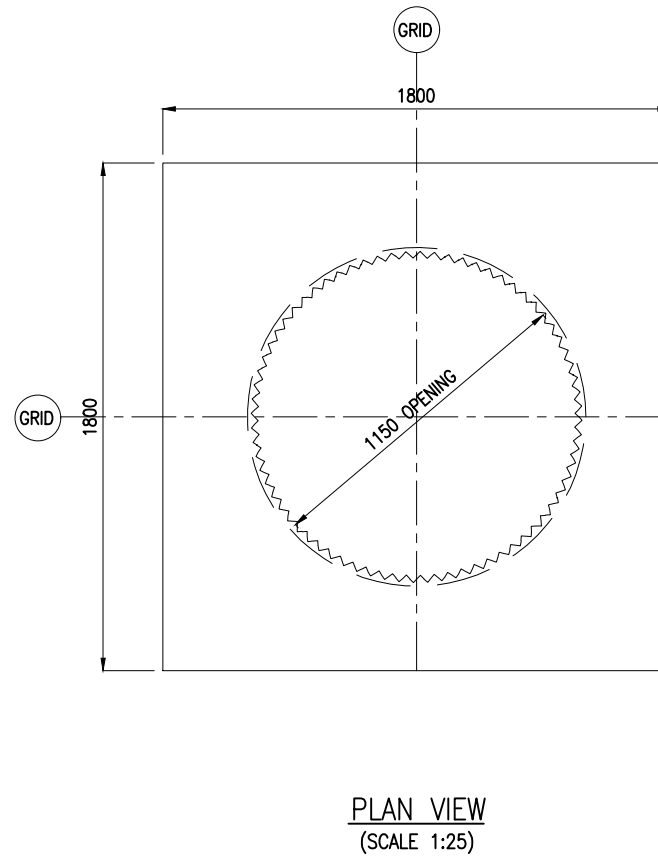
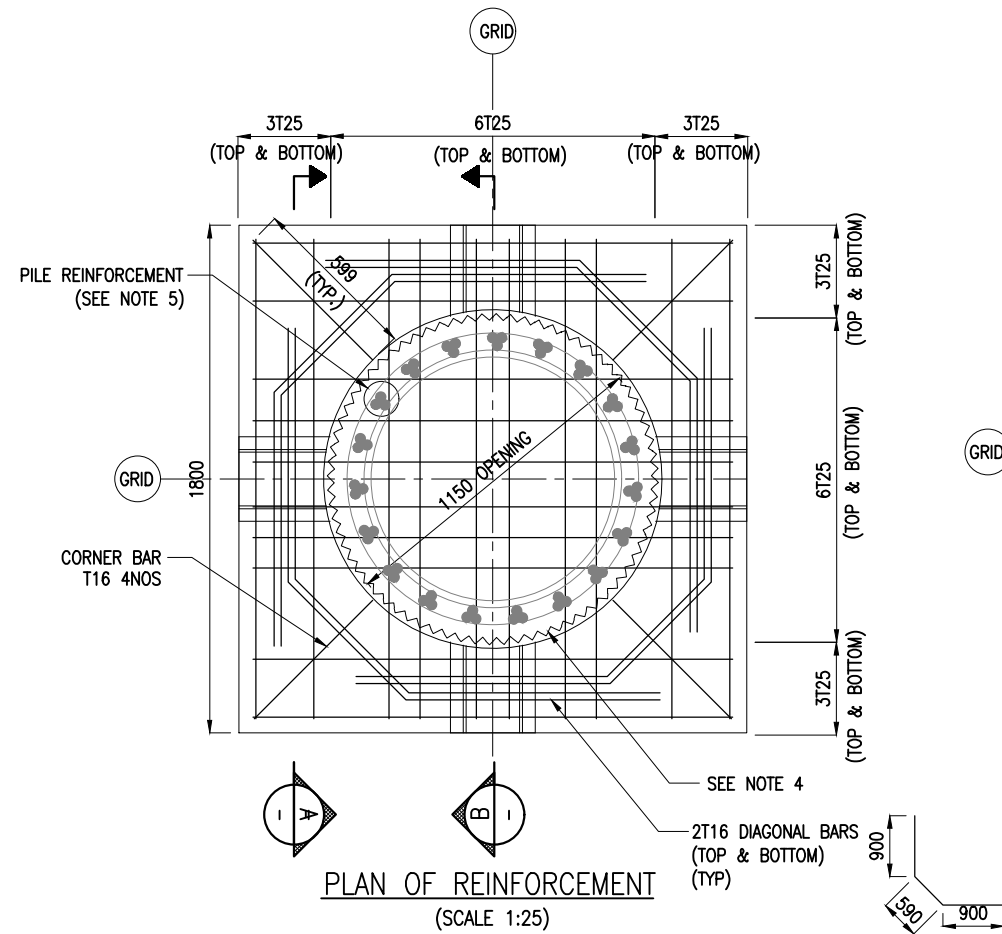
LEGEND:



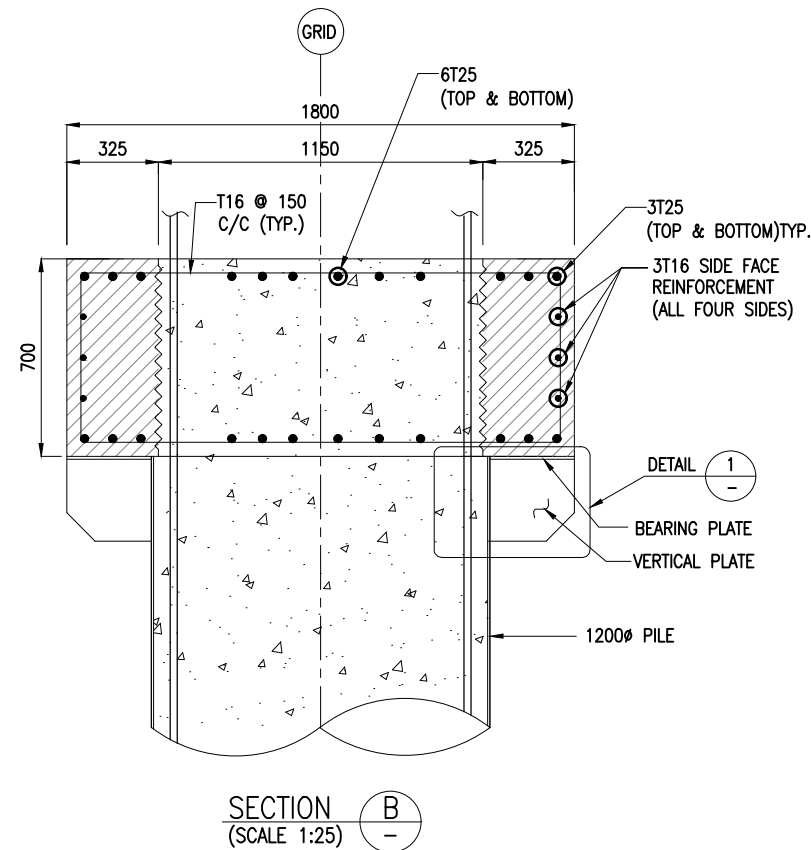
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 1 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-402-01		DATE: 20.05.26		REV: B





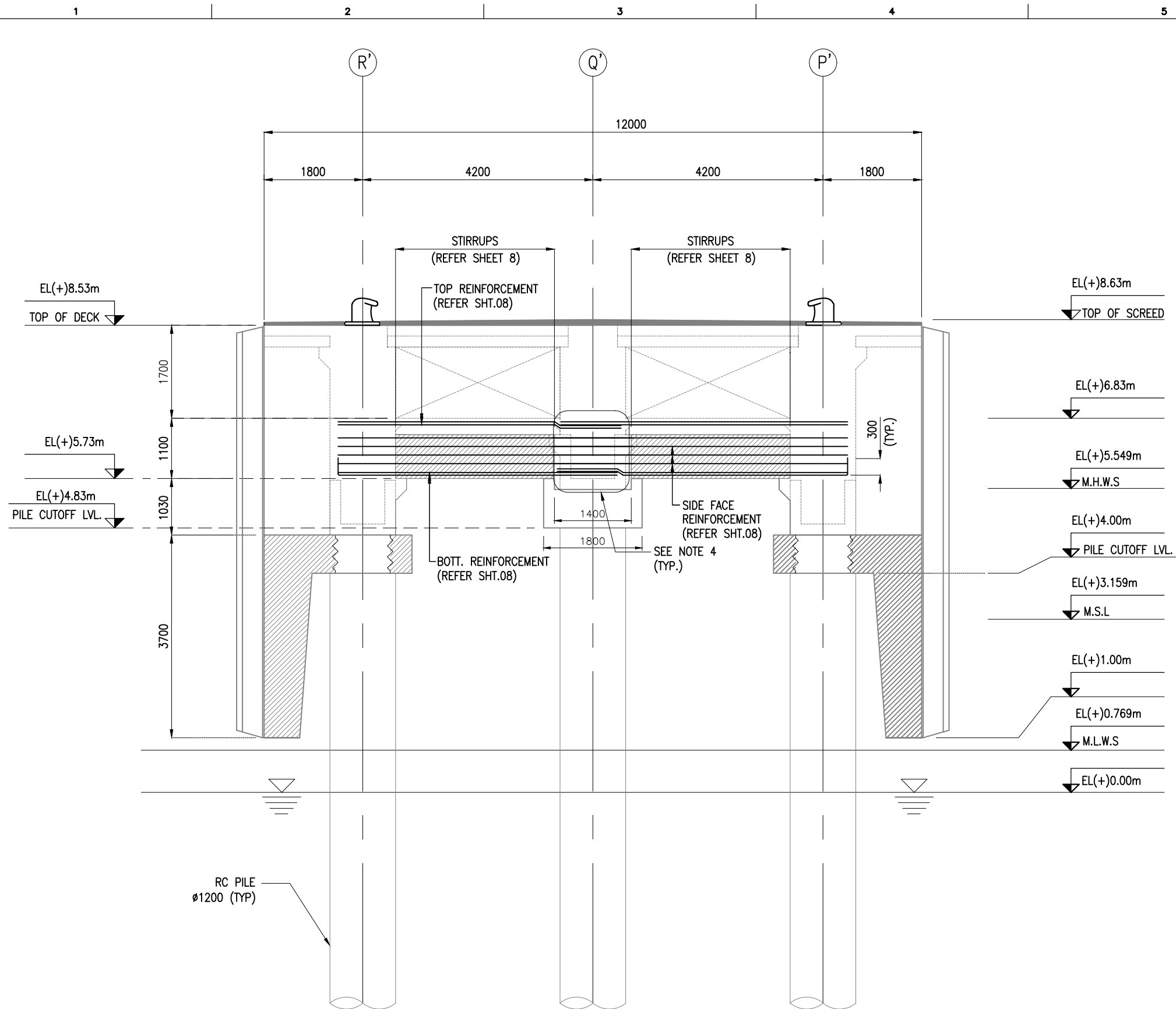
DETAILS OF PILE MUFF -TYPE 1
1800x1800x700



NOTES:

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- ALL LEVELS INDICATED ARE IN METRES WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO.IITM-MBPA-MAL-DWG-002.
- INNER SURFACE OF THE CONCRETE SHALL BE ROUGHENED.
- PILE REINFORCEMENT POSITION SHALL BE ADJUSTED DURING PLACEMENT OF PRECAST PILE MUFF.
- FOR CONSTRUCTION SEQUENCE REFER TO DRAWING IITM-MBPA-MAL-DWG-202-03.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF PILE MUFF (SHEET 2 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-402-02		DATE: 20.05.26		REV: B

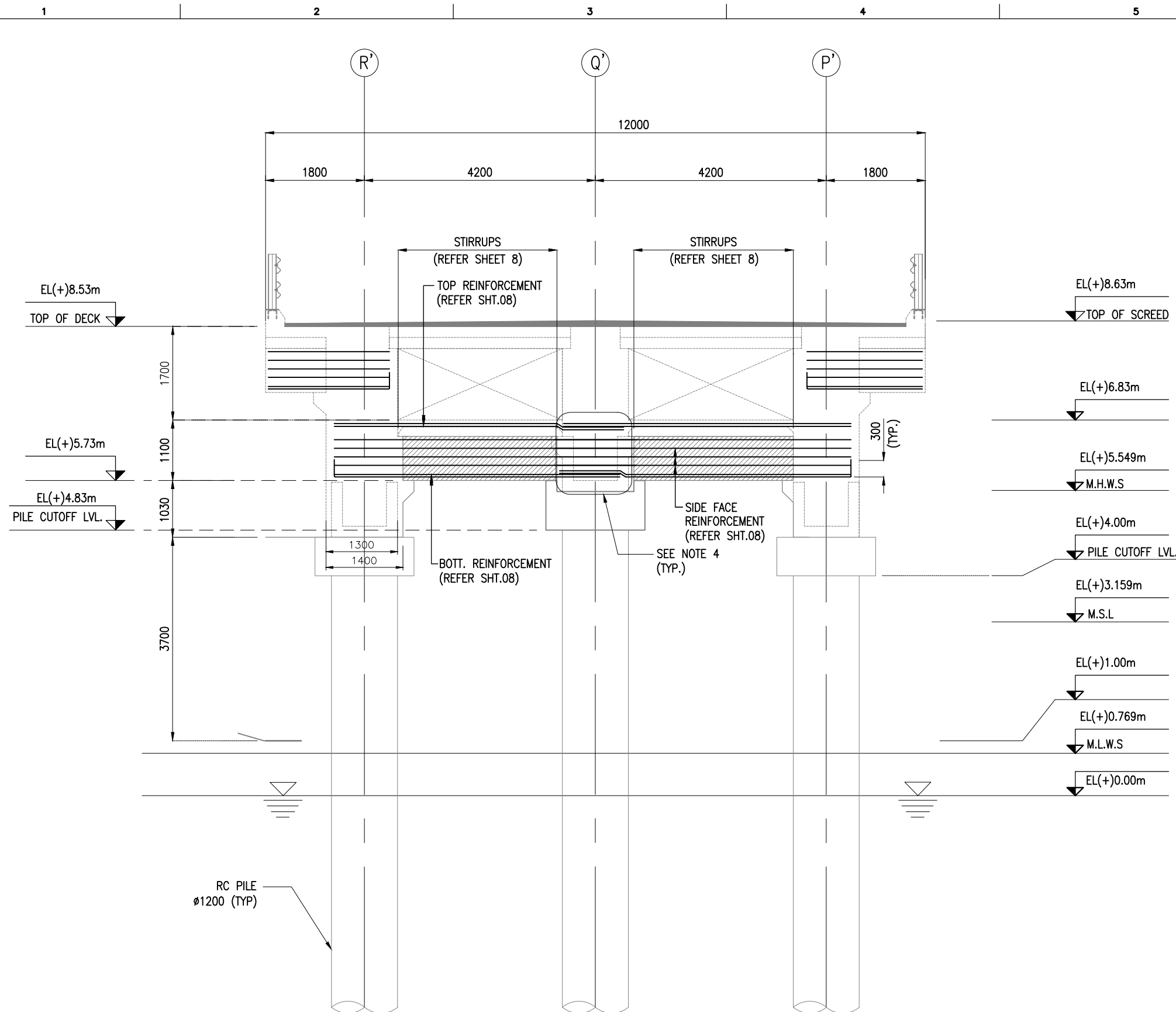


CROSS SECTION AT GRID -154
(FENDER LOCATION)
SCALE 1:75

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 2 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-02		DATE: 20.05.26		REV: B

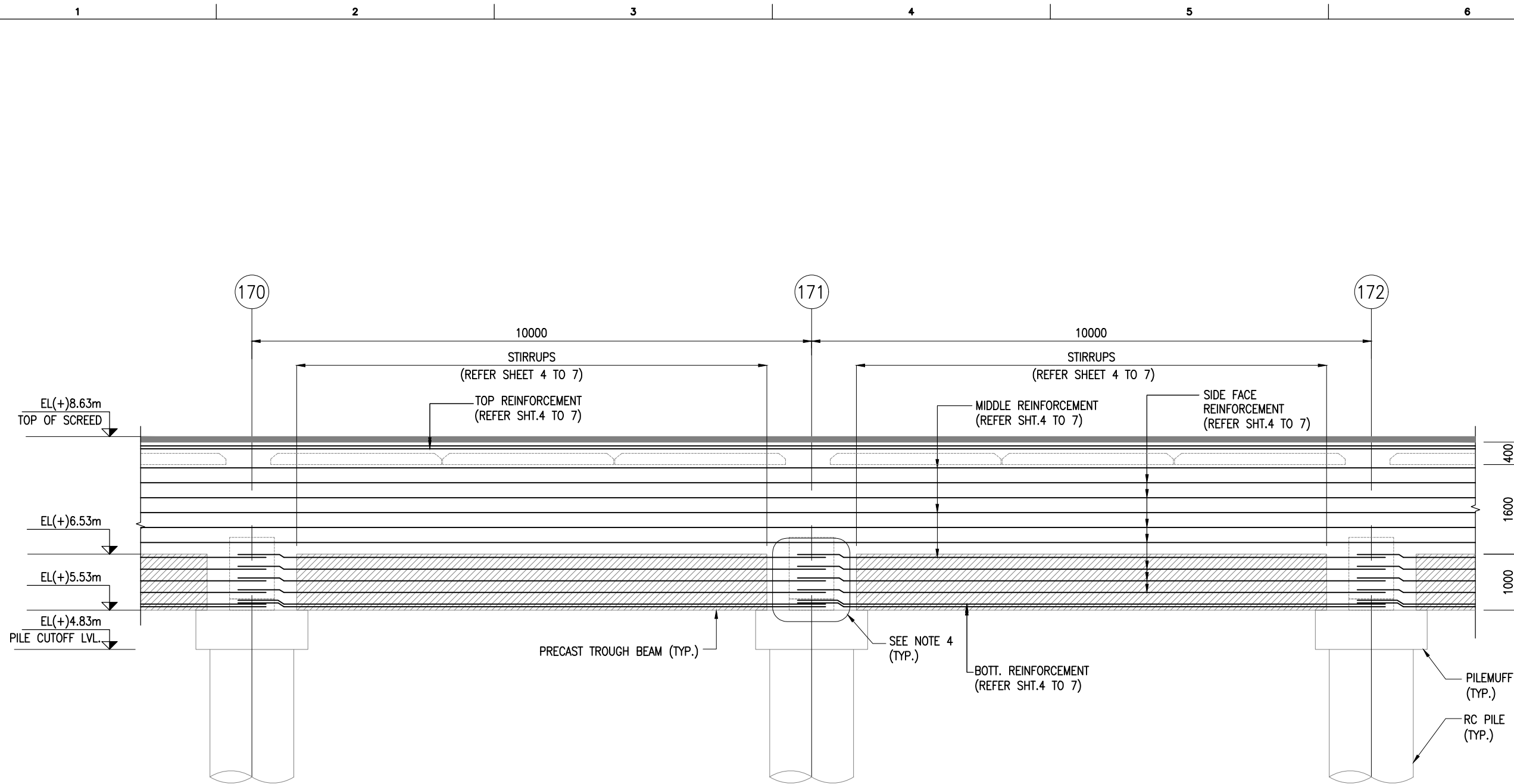


CROSS SECTION AT GRID -154
(NON FENDER LOCATION)
SCALE 1:75

NOTES:



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3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

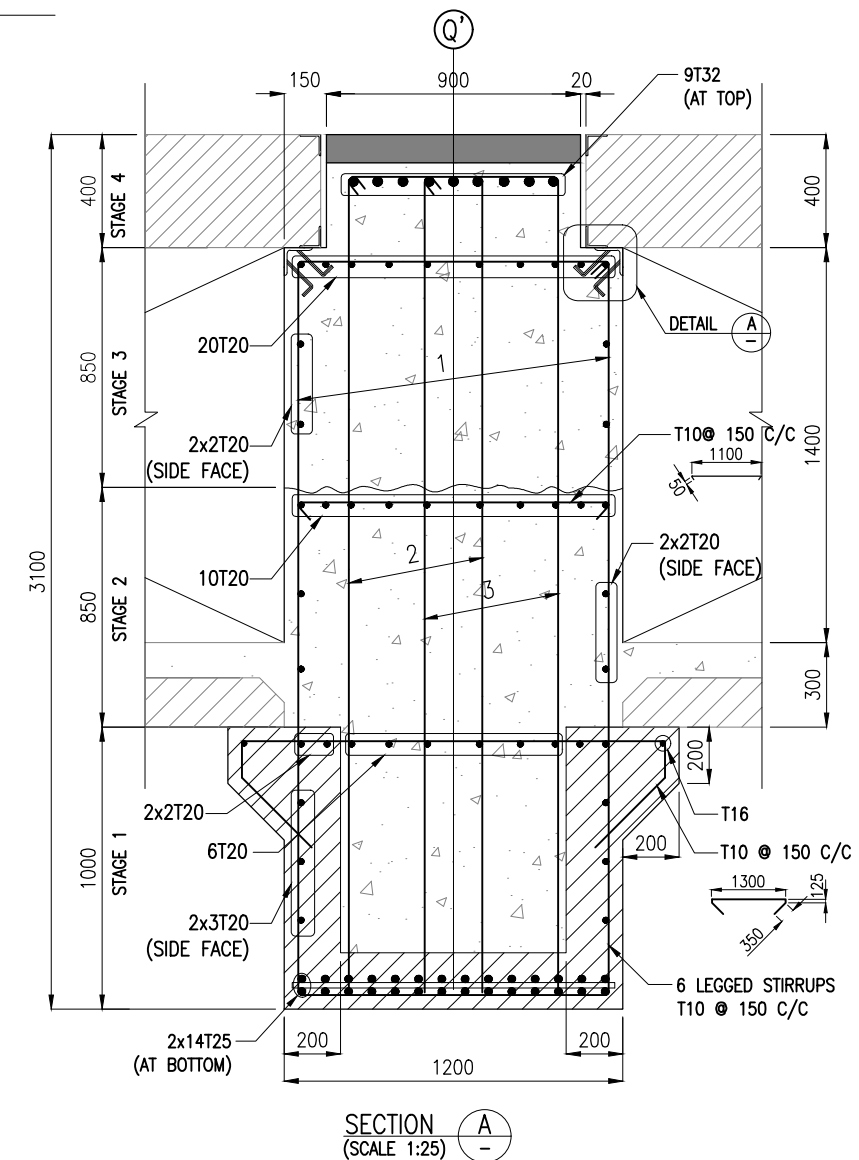
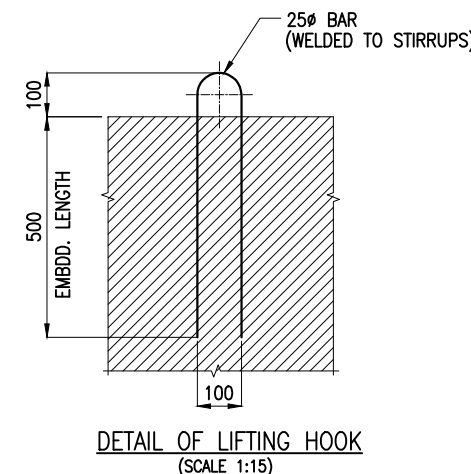
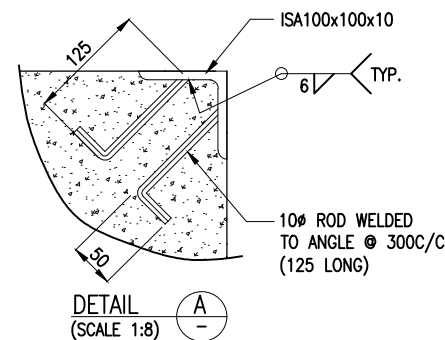
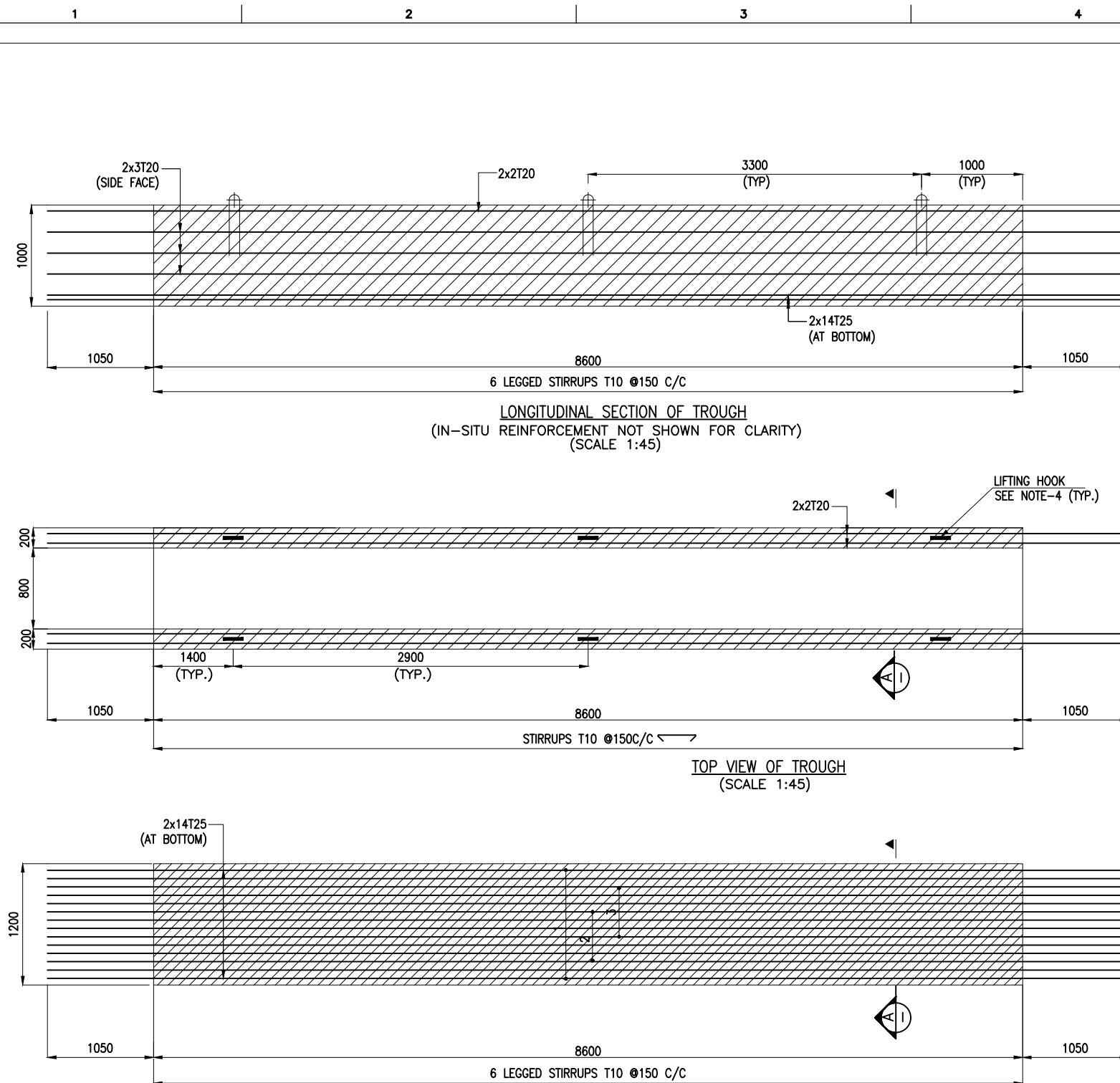
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A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 3 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-03		DATE: 20.05.26		REV: B



TYPICAL LONGITUDINAL SECTION
(SCALE 1:75)



- NOTES:
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 2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 4. REINFORCEMENT BARS TO BE BENT AS PER SITE CONDITIONS.

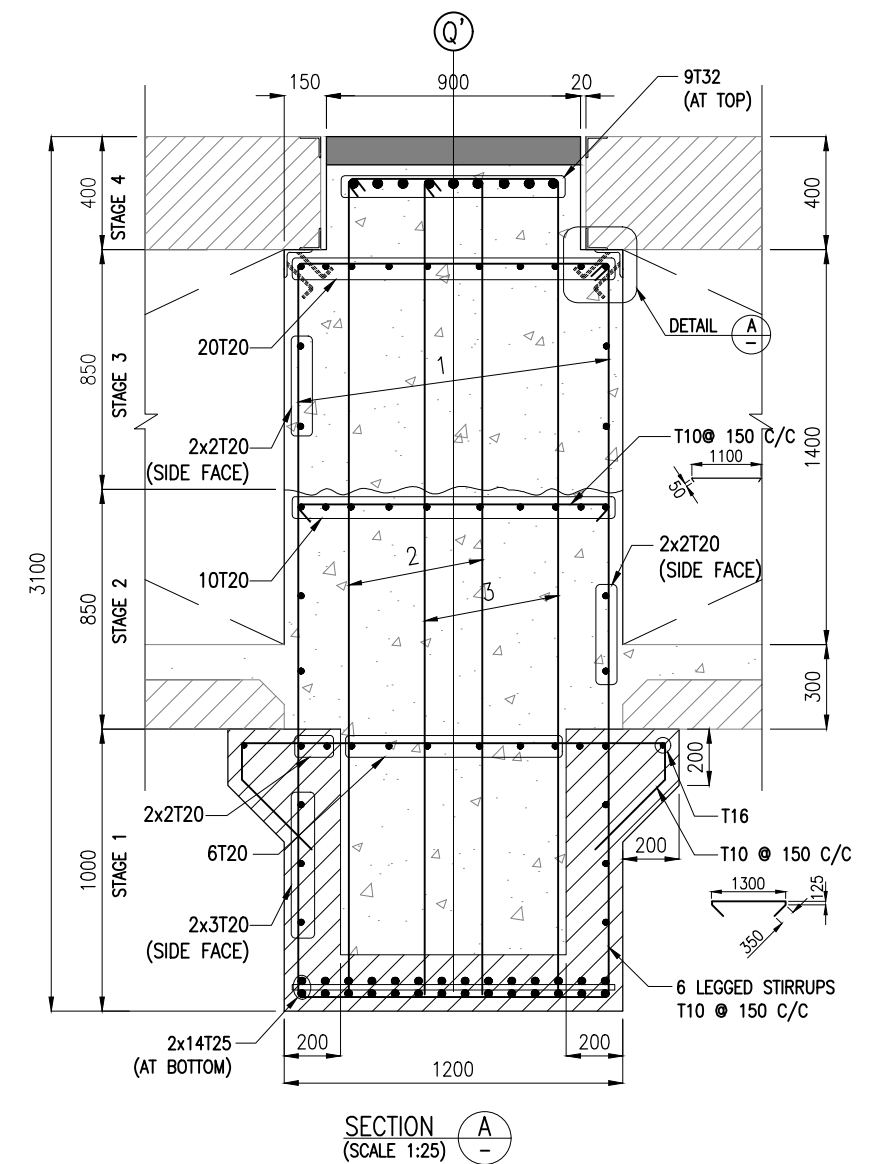
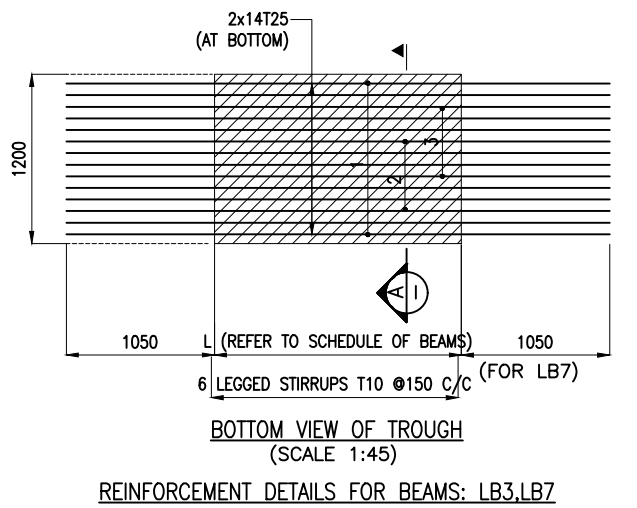
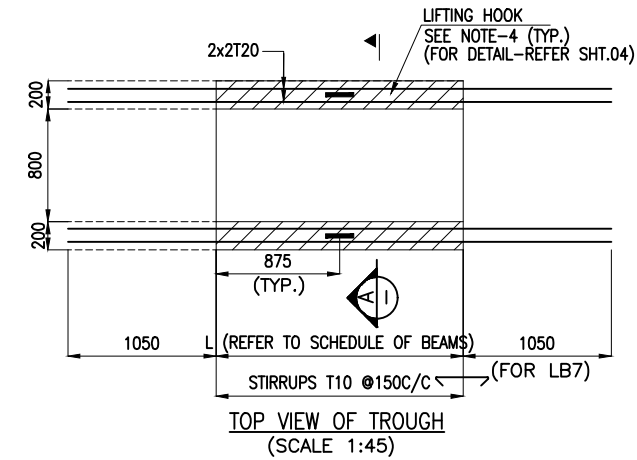
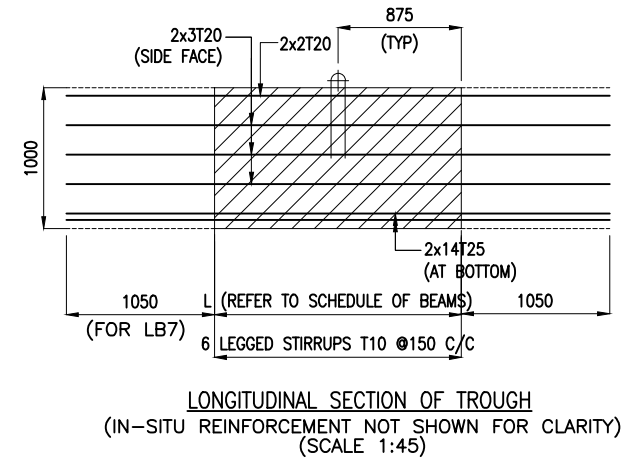
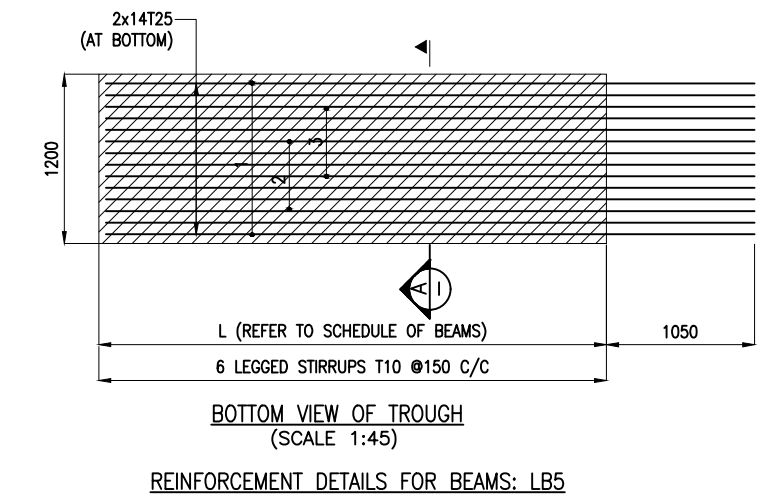
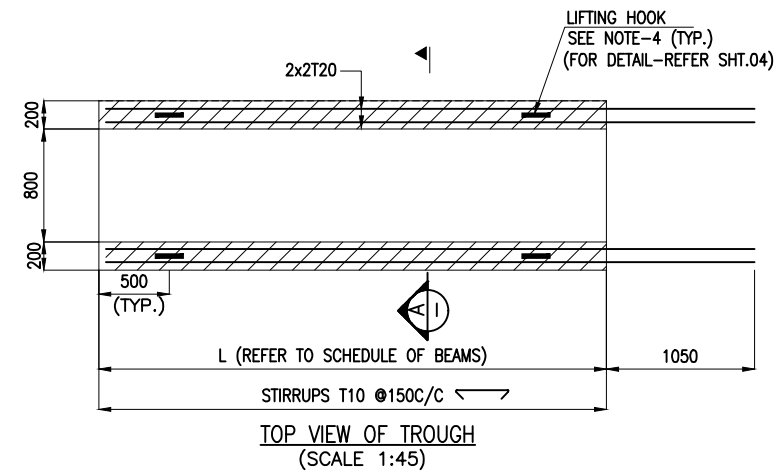
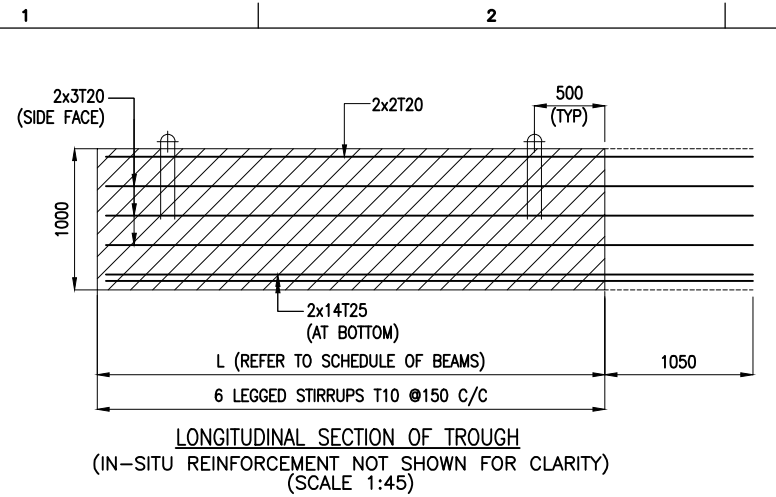
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 4 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-04			DATE: 20.05.26	REV: B



NOTES:

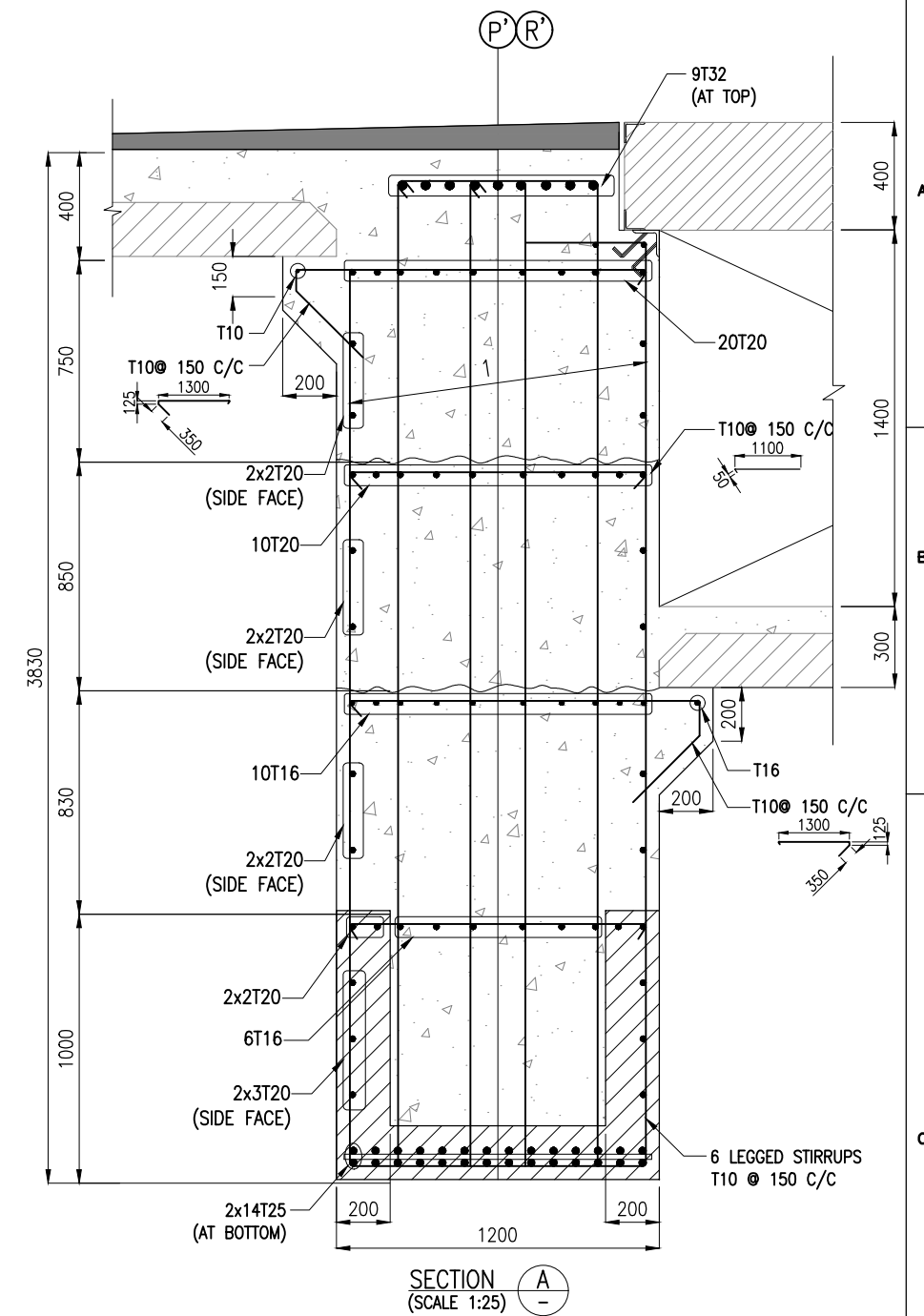
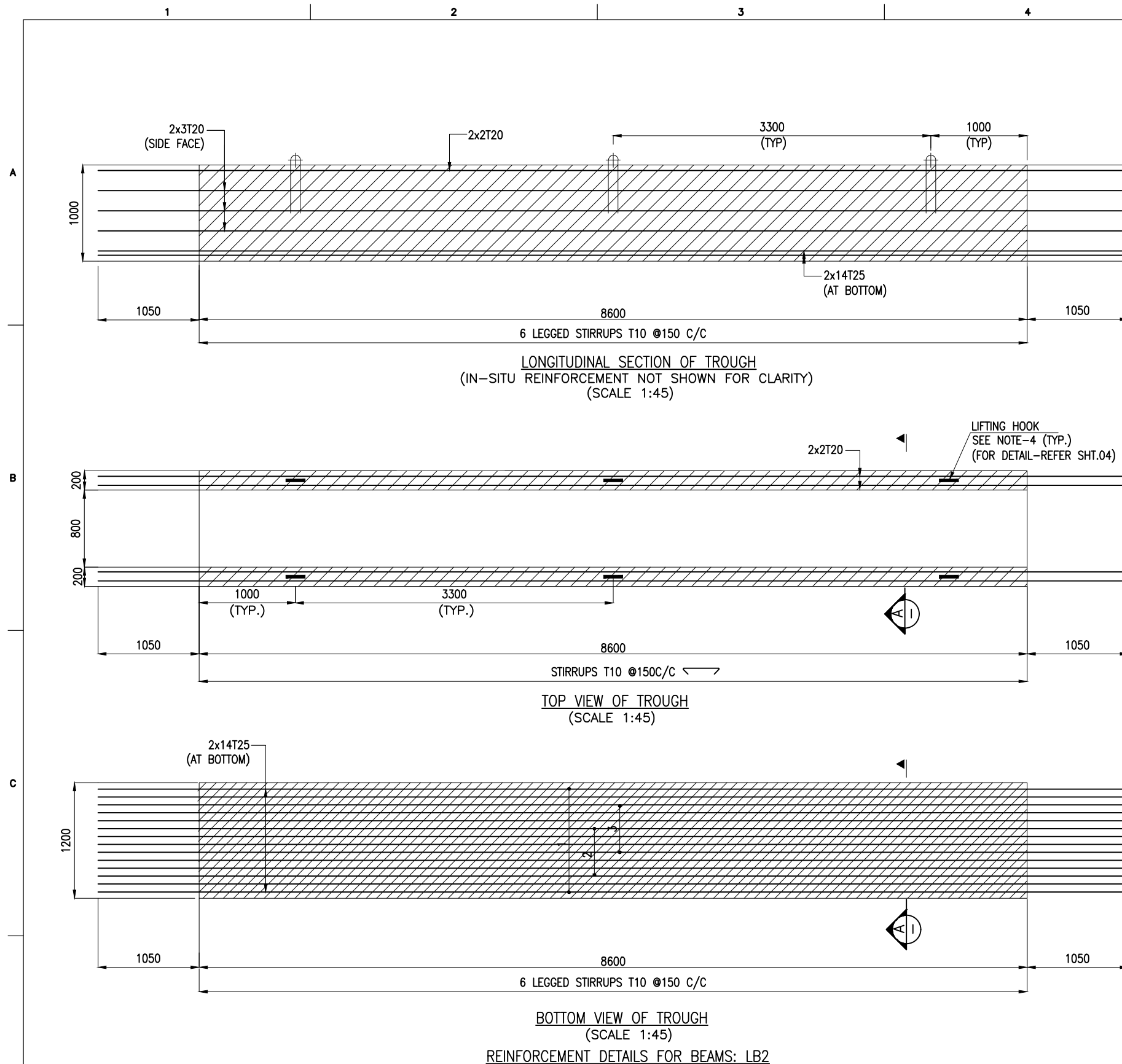
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.
- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 5 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-05		DATE: 20.05.26	REV: B	



- NOTES:**
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 - ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
 - FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
 - PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.
 - THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

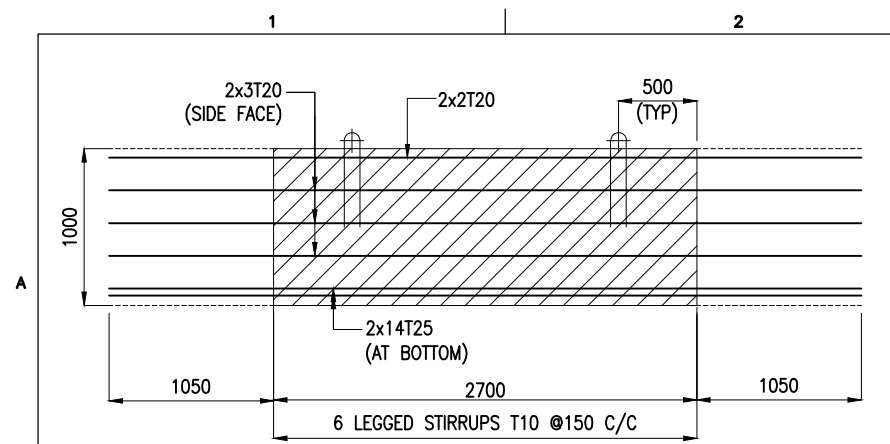
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 6 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-06		DATE: 20.05.26		REV: B



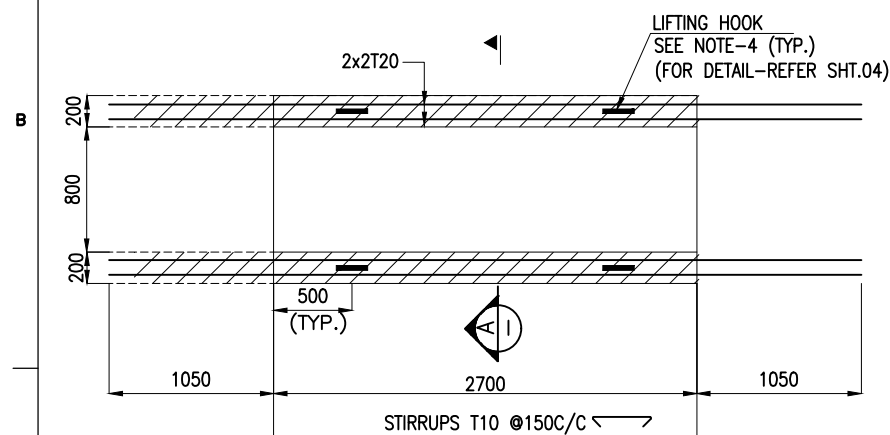
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- PRECAST TROUGH BEAMS SHALL BE LIFTED USING SPREADER BEAMS ONLY.
- THE LONGITUDINAL REINFORCEMENT SHOWN IN IN-SITU CONCRETE SHALL BE PLACED AFTER THE INSTALLATION TROUGH. THIS REINFORCEMENT SHALL BE CONTINUOUS AND SHALL NOT BE CURTAILED.

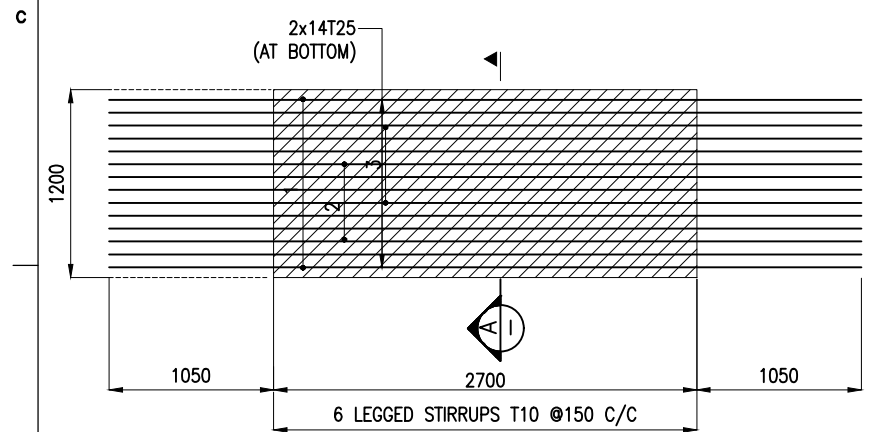
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 7 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-07		DATE: 20.05.26		REV: B



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)

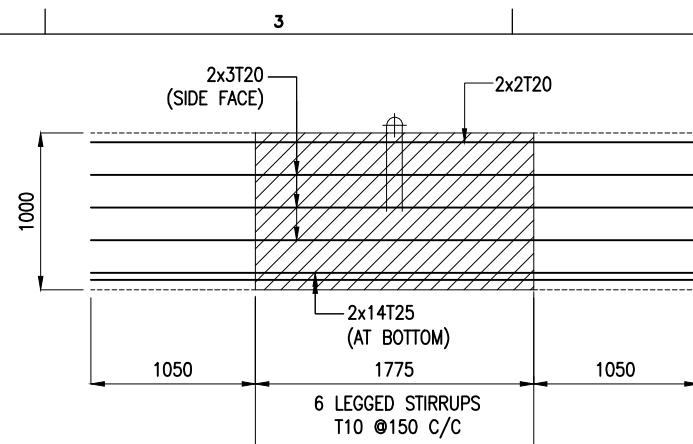


TOP VIEW OF TROUGH
(SCALE 1:45)

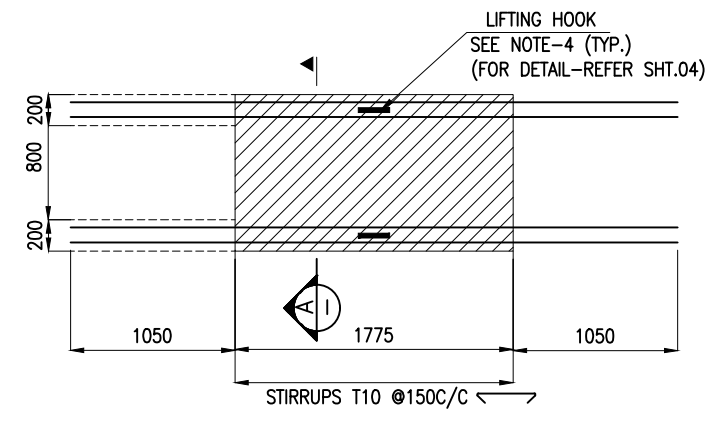


BOTTOM VIEW OF TROUGH
(SCALE 1:45)

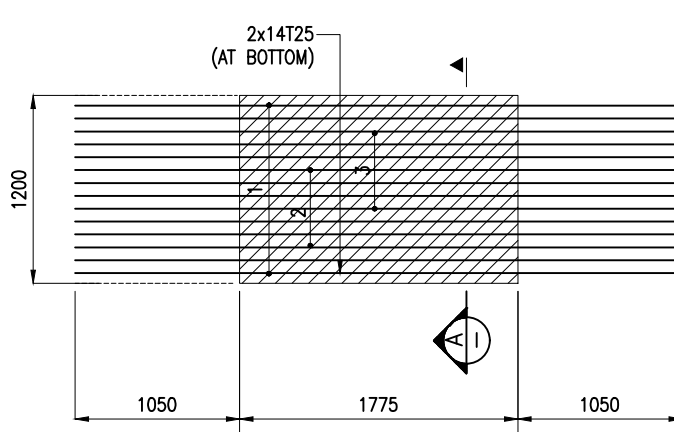
REINFORCEMENT DETAILS FOR BEAMS: LB4



LONGITUDINAL SECTION OF TROUGH
(IN-SITU REINFORCEMENT NOT SHOWN FOR CLARITY)
(SCALE 1:45)



TOP VIEW OF TROUGH
(SCALE 1:45)

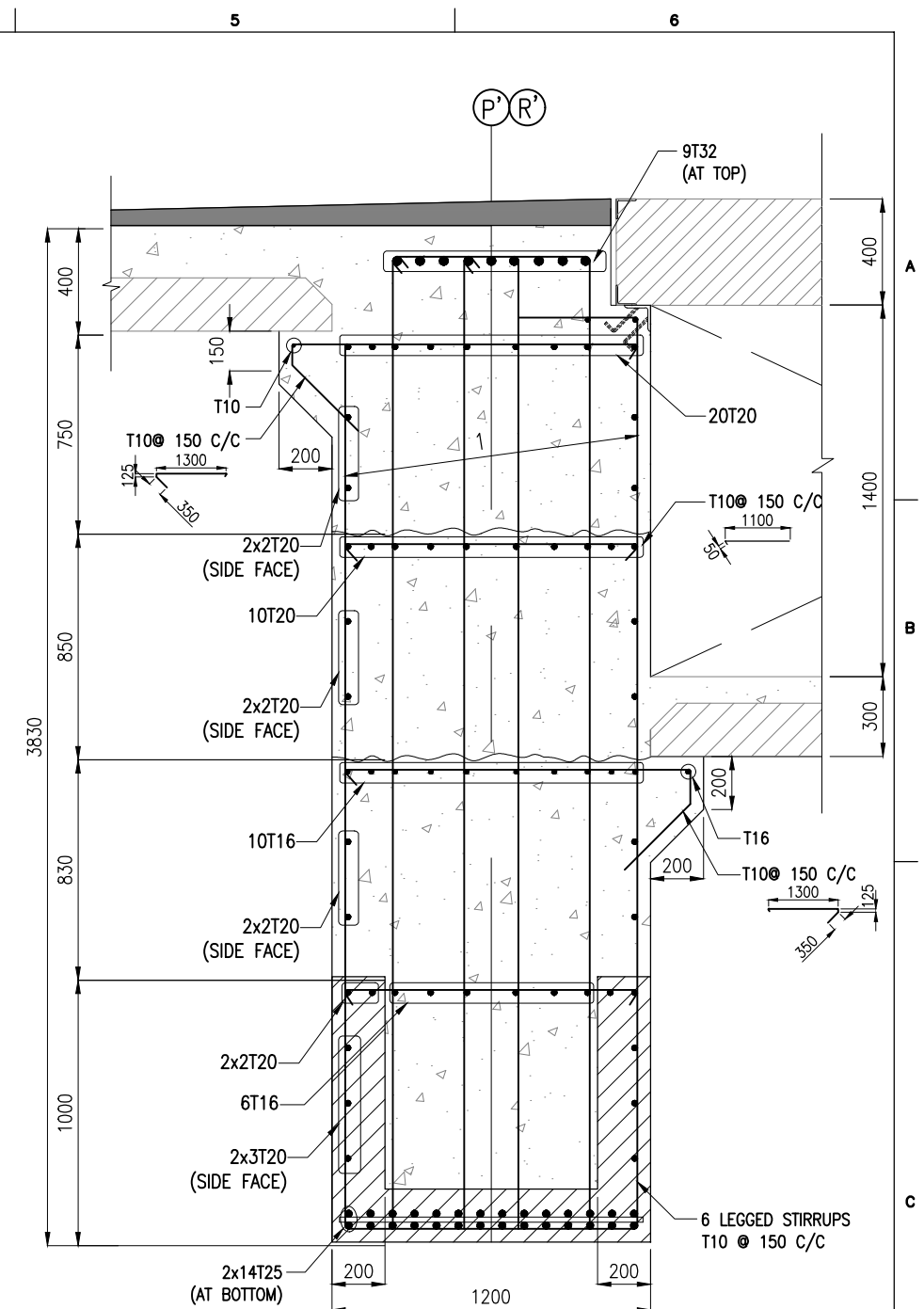


BOTTOM VIEW OF TROUGH
(SCALE 1:45)



REINFORCEMENT DETAILS FOR BEAMS: LB6

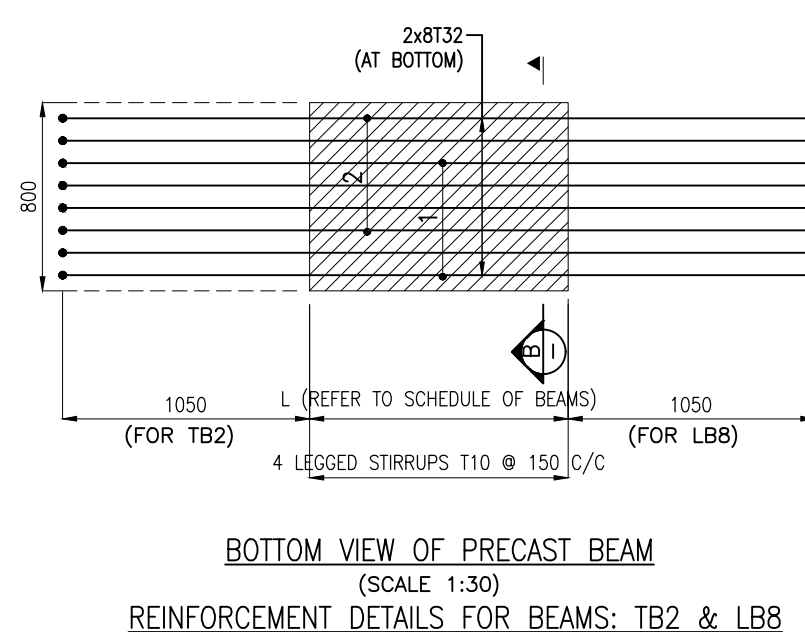
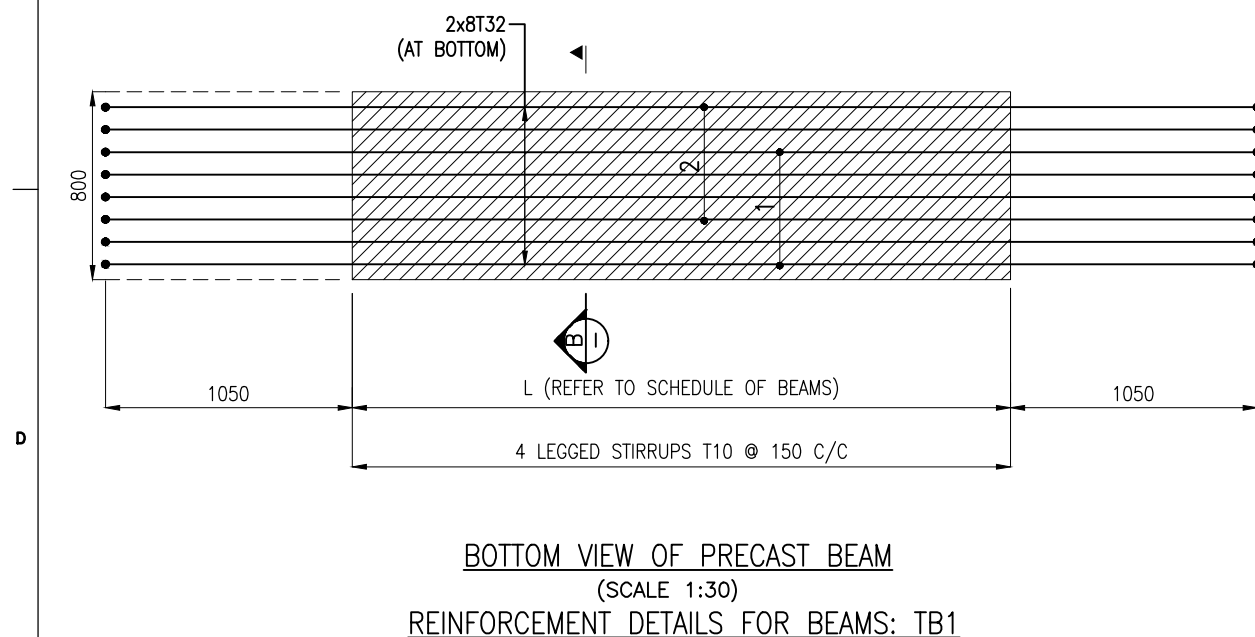
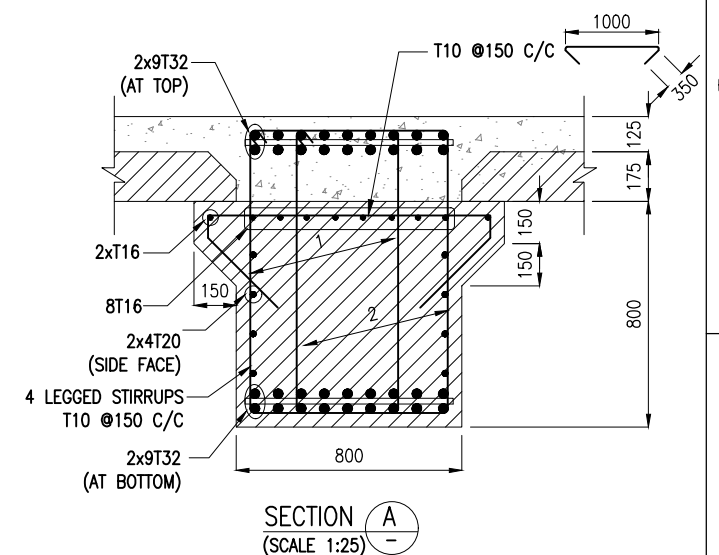
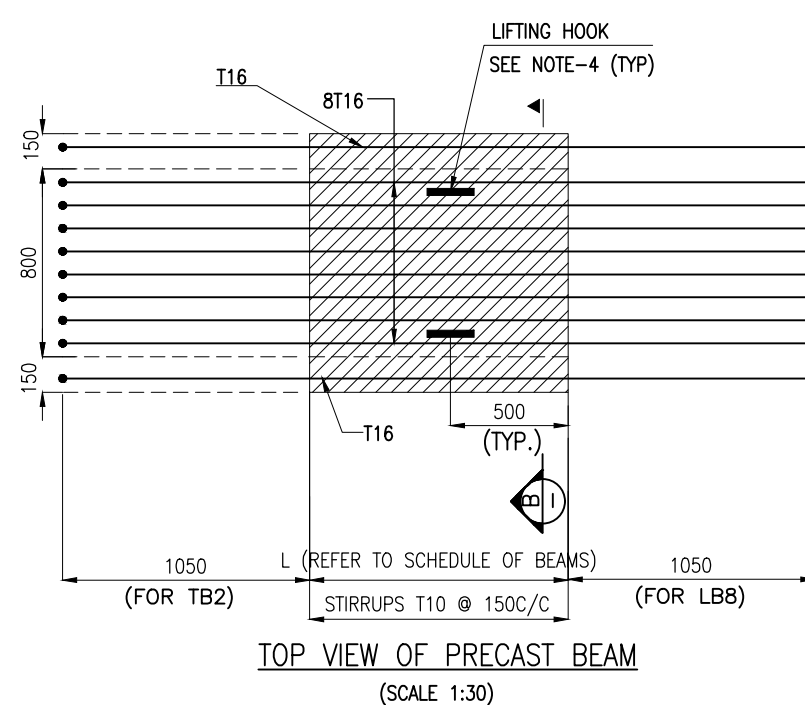
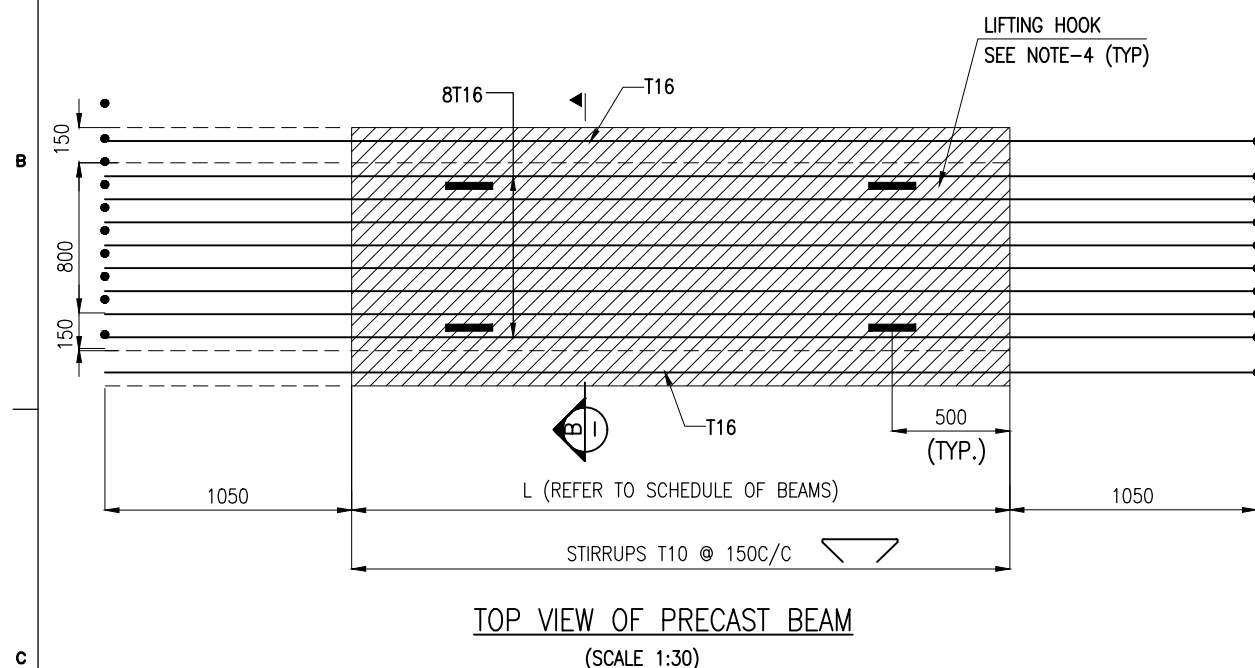
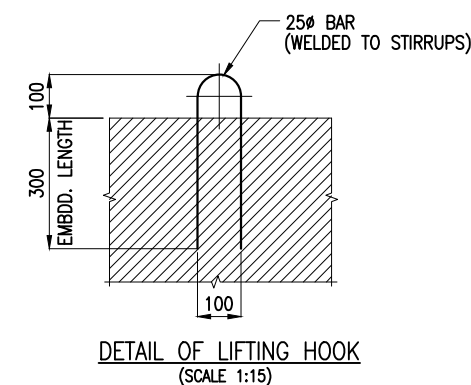
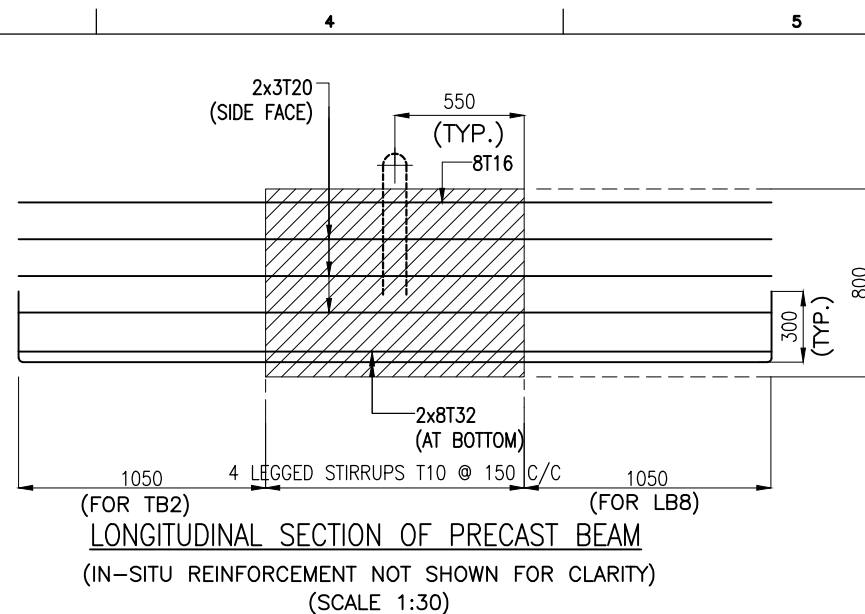
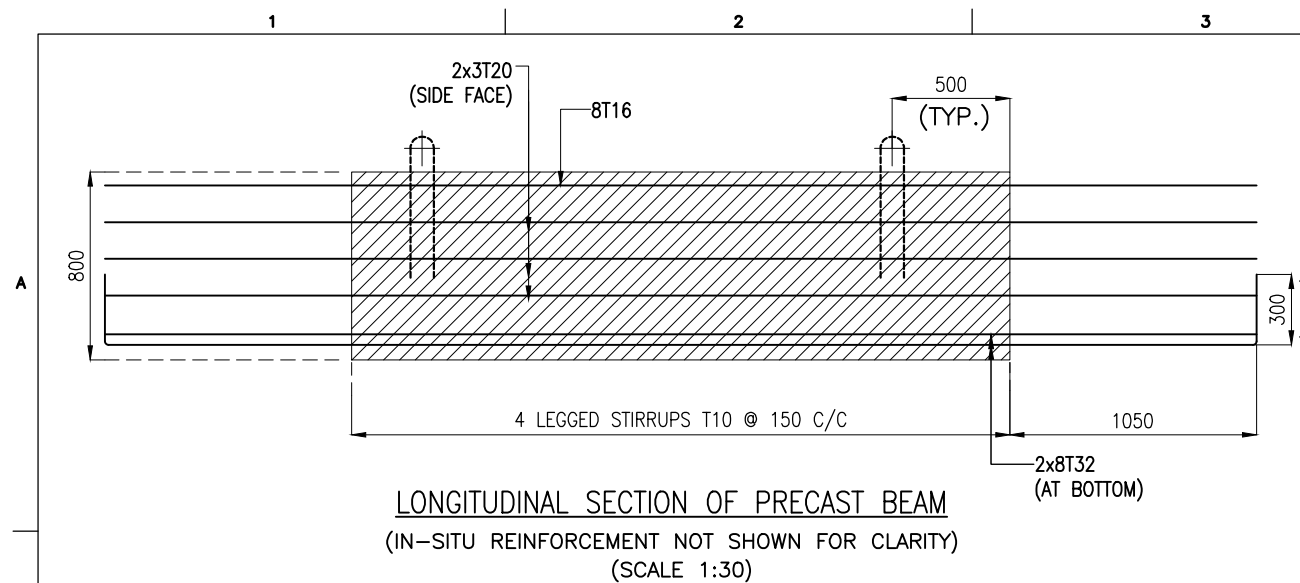
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
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SECTION A-A
(SCALE 1:25)

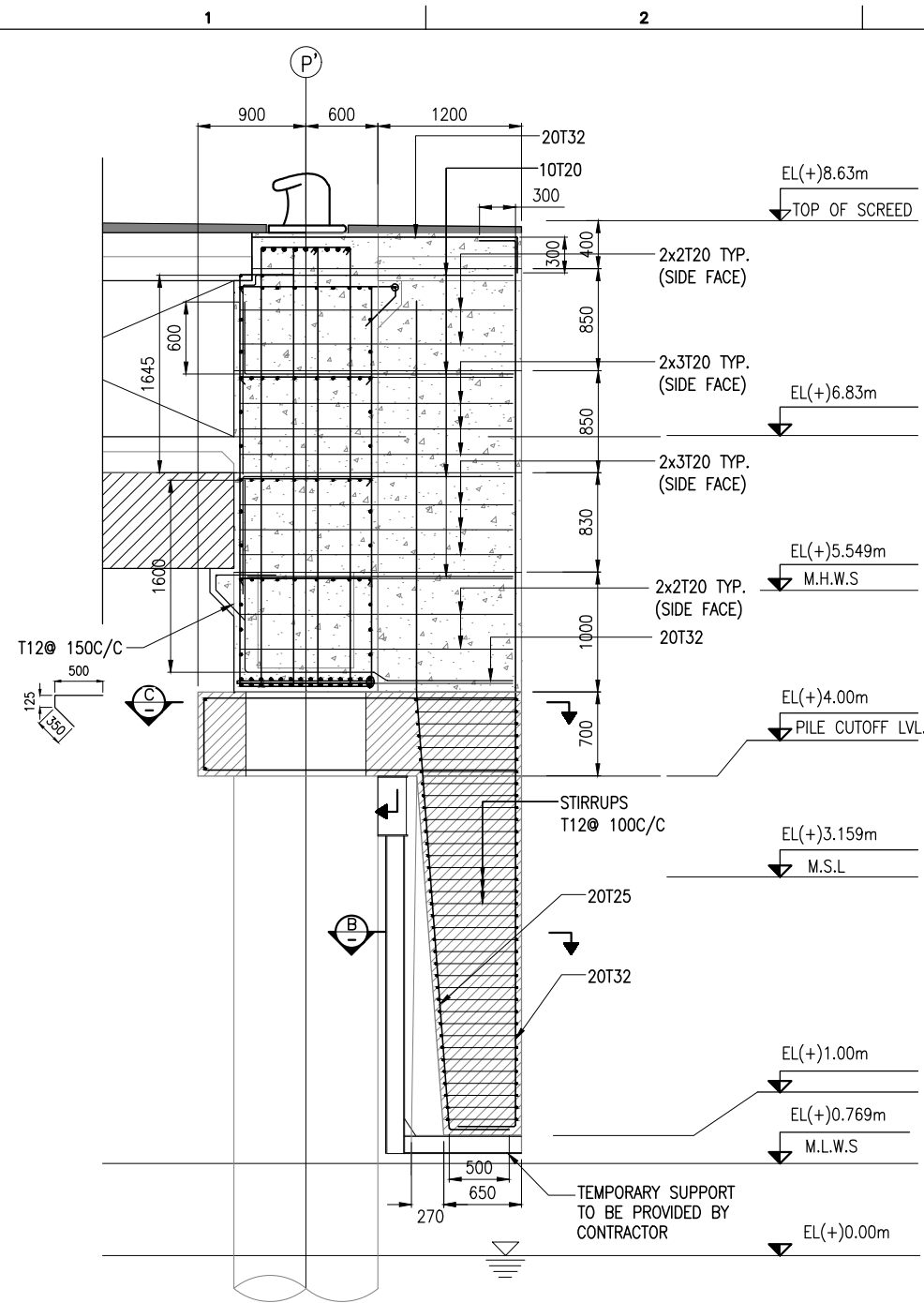
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 8 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-08		DATE: 20.05.26		REV: B



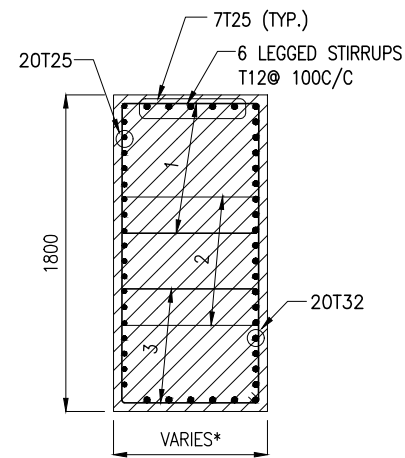
NOTES:

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- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
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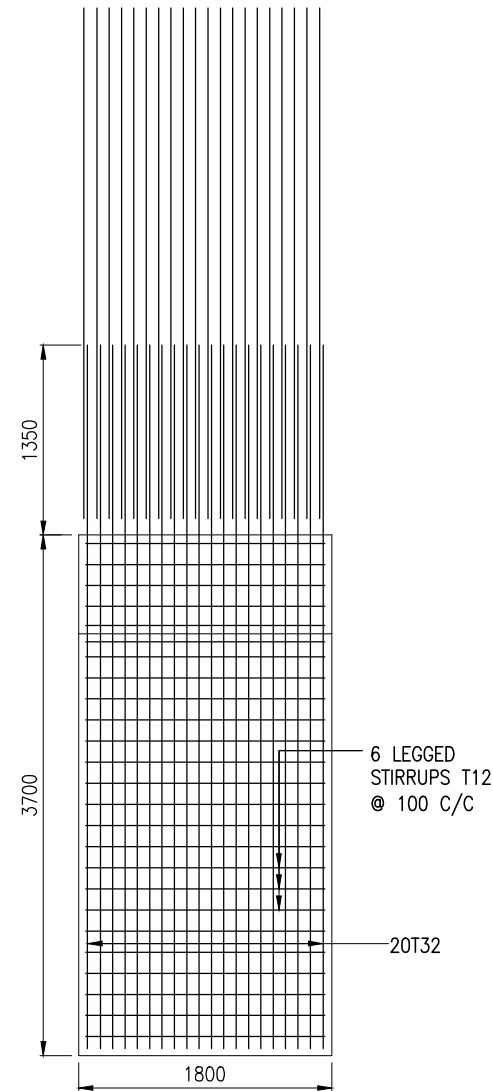
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	MP	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 9 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-09		DATE: 20.05.26	REV: B	



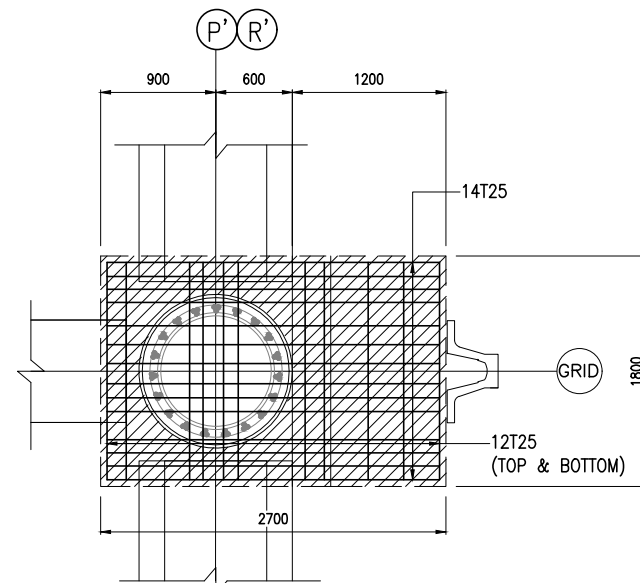
LONGITUDINAL SECTION OF FENDER BEAM (FB)
(PILE REINFORCEMENT NOT SHOWN FOR CLARITY)



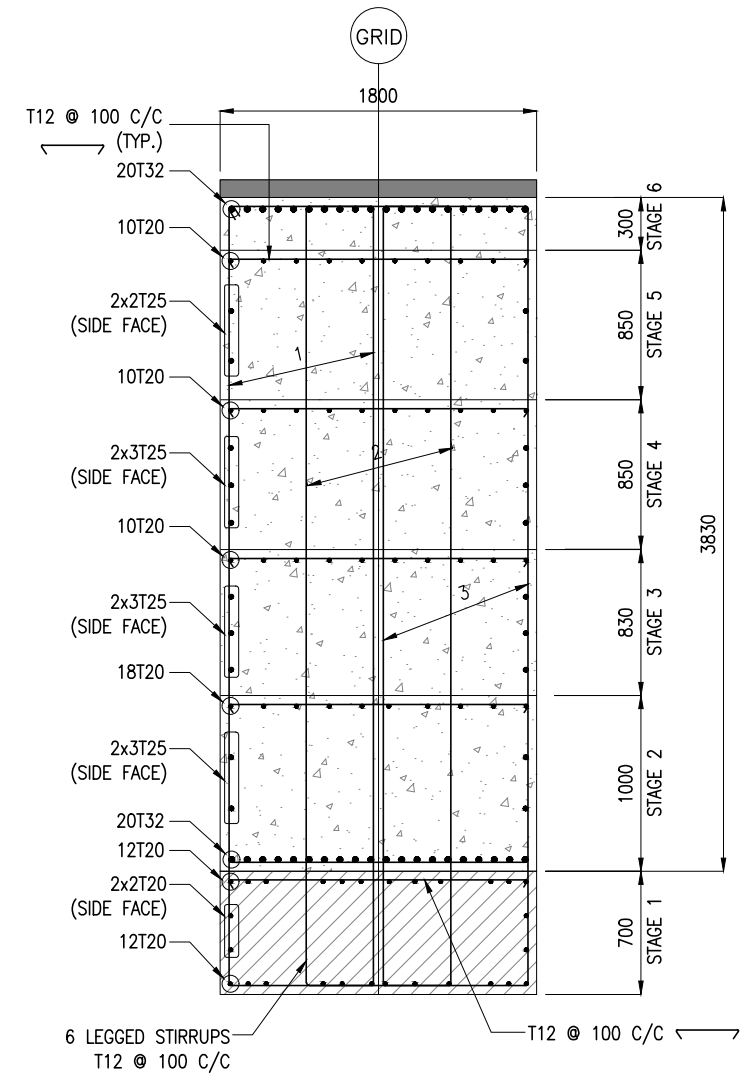
SECTION B
(SCALE 1:40)



FRONT VIEW OF PRECAST FENDER PANEL
(SCALE 1:55)



SECTION C
(SCALE 1:55)

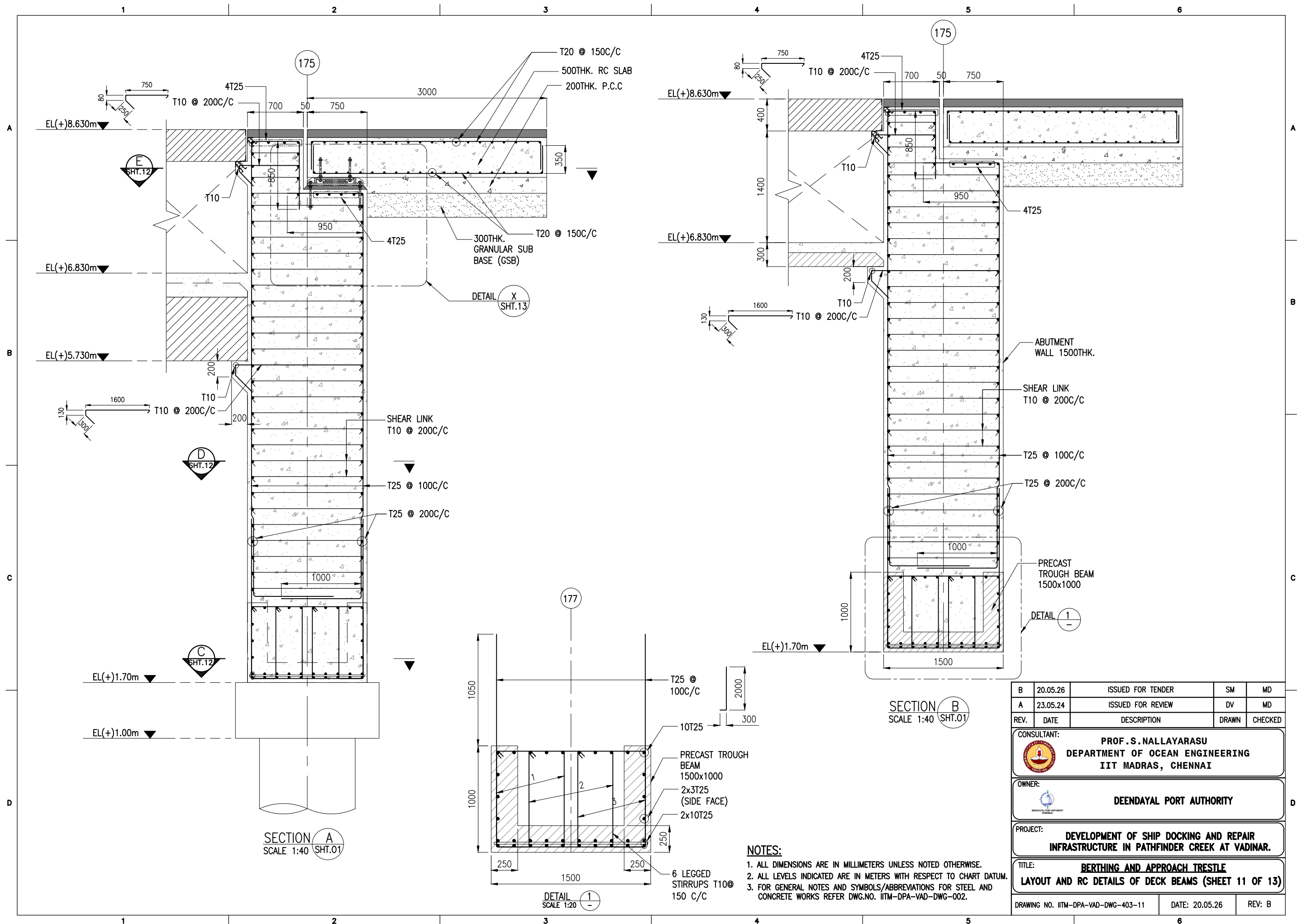




SECTION A
(SCALE 1:40)

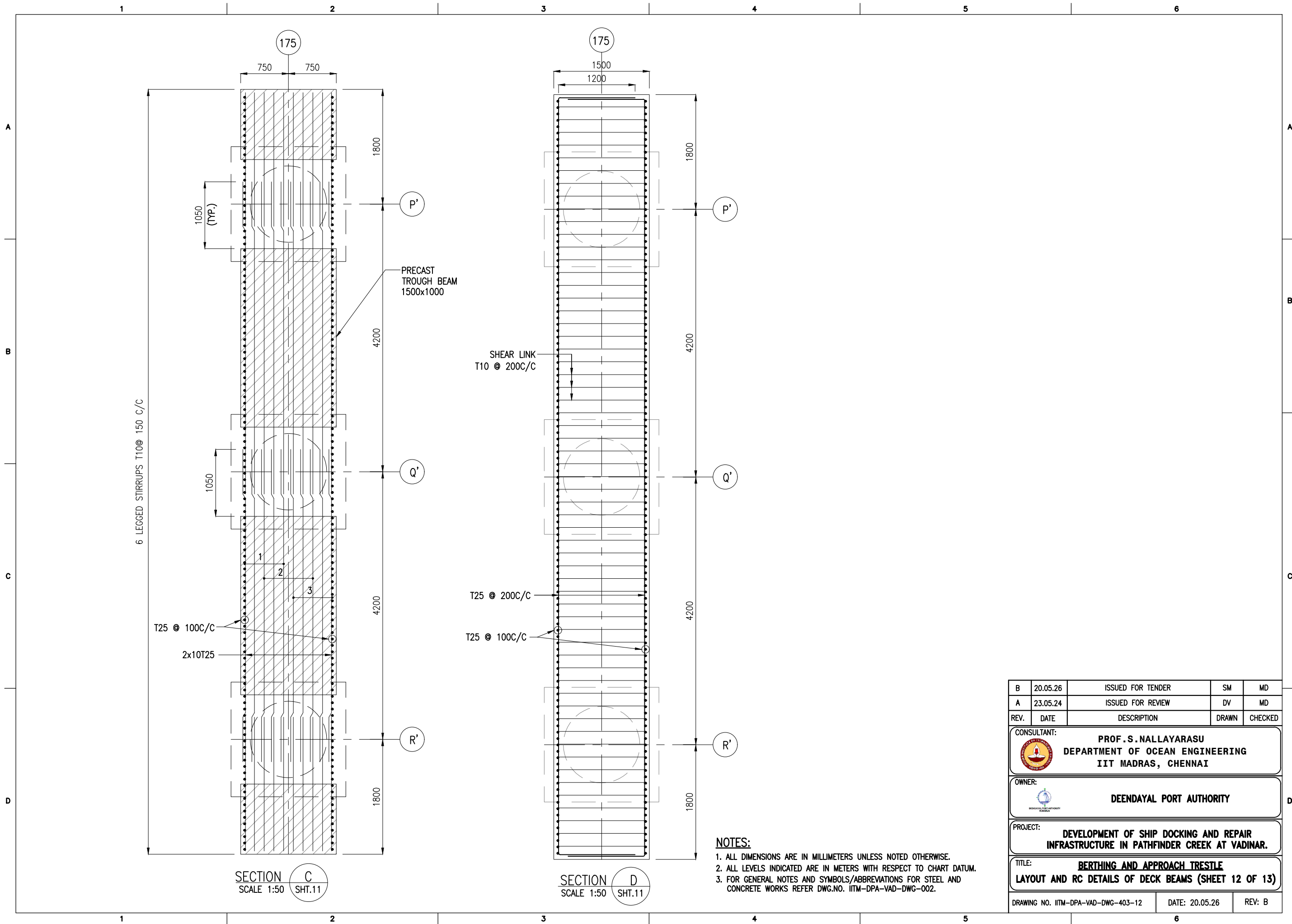
NOTES:



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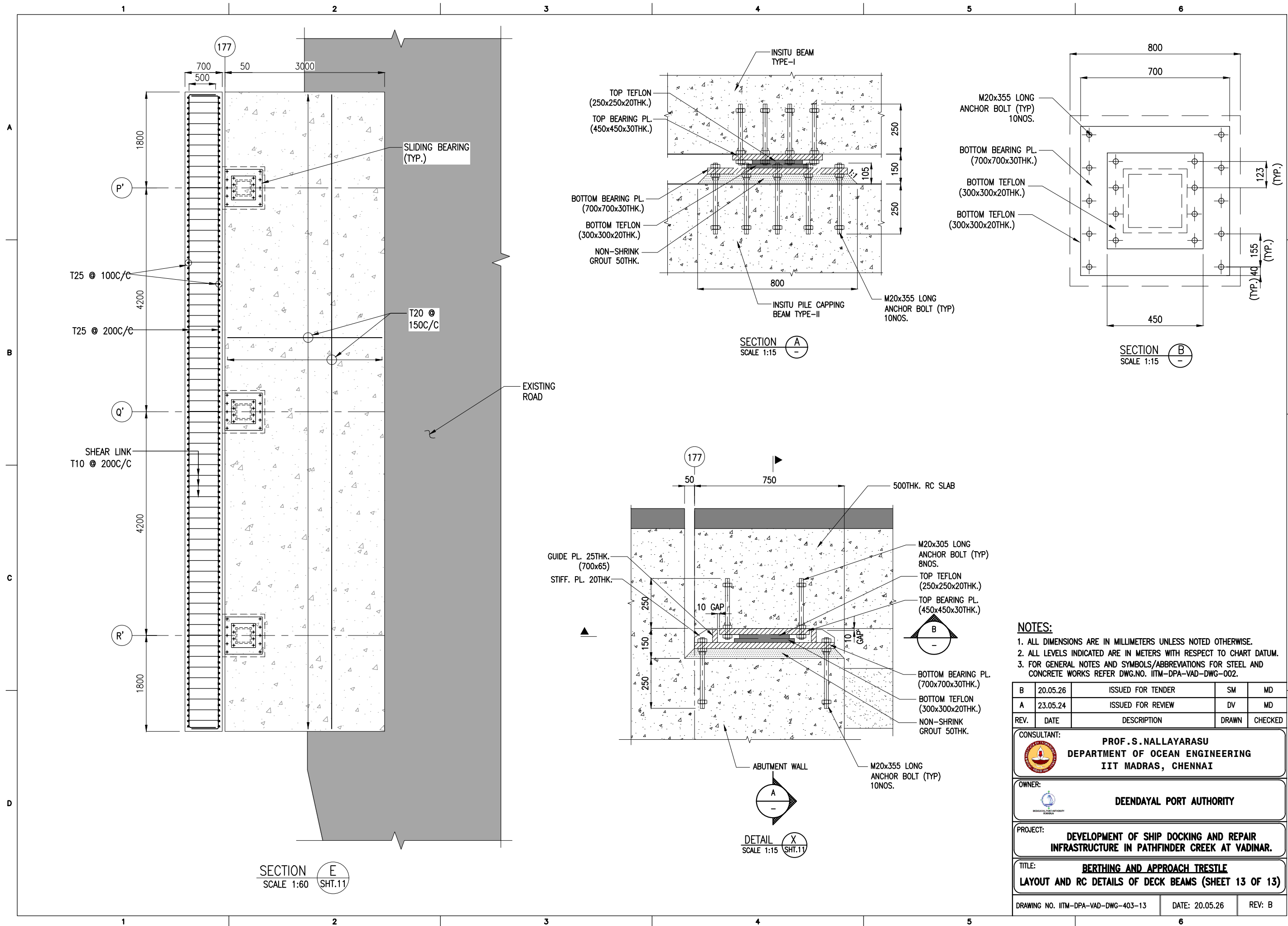
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 10 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-10		DATE: 20.05.26		REV: B

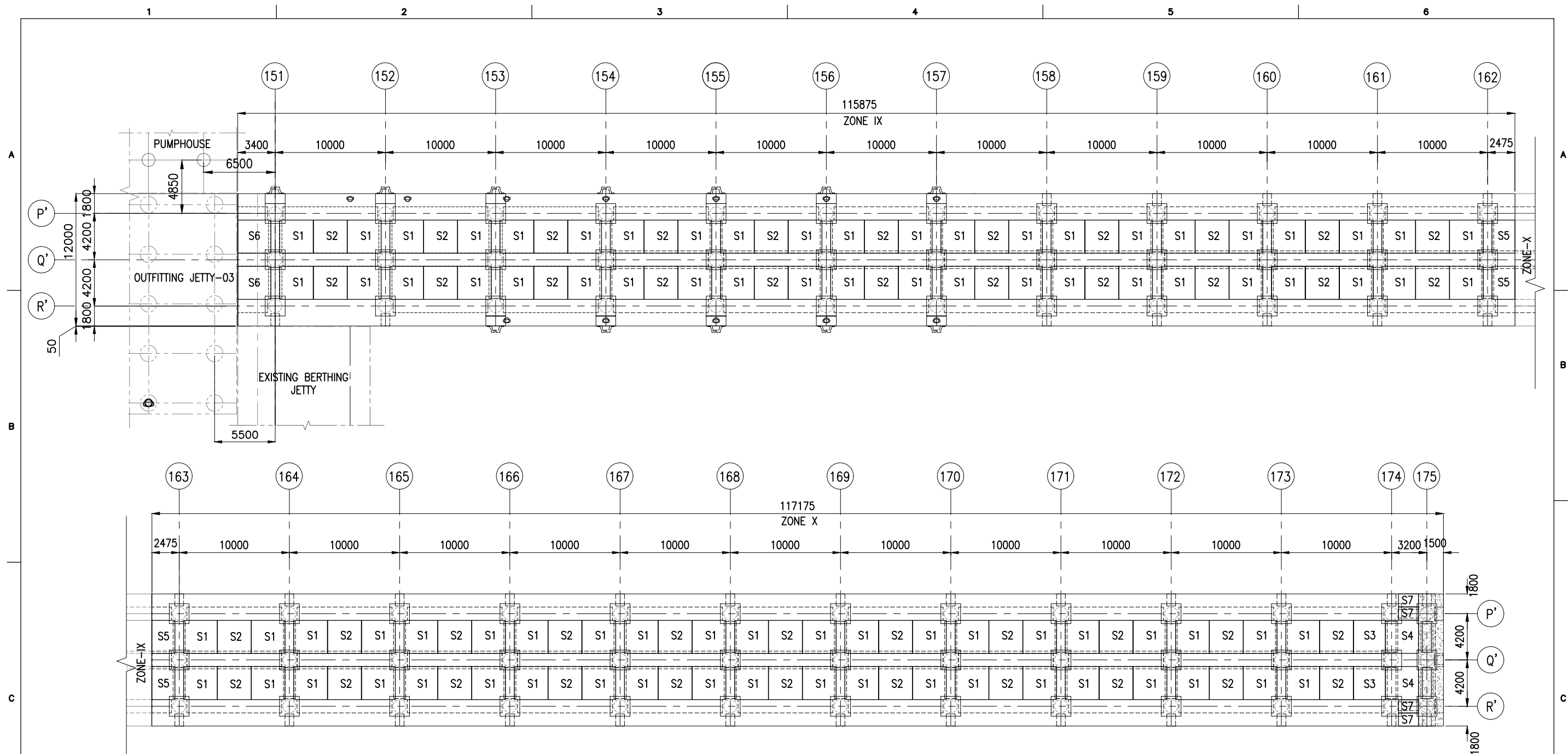


B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 11 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-11		DATE: 20.05.26	REV: B	



B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	DV	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND RC DETAILS OF DECK BEAMS (SHEET 12 OF 13)				
DRAWING NO. IITM-DPA-VAD-DWG-403-12		DATE: 20.05.26		REV: B





PRECAST SLAB LAYOUT @6.83m
(SCALE 1:350)

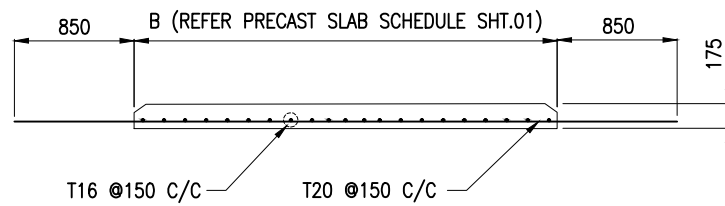
PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
S1	3050	3000	175	4.00	86
S2	3060	3000	175	4.01	44
S3	2880	3000	175	3.78	02
S4	2980	3000	175	3.91	02
S5	2075	3000	175	2.72	04
S6	3000	3000	175	3.94	02
S7	1805	1180	175	0.93	02

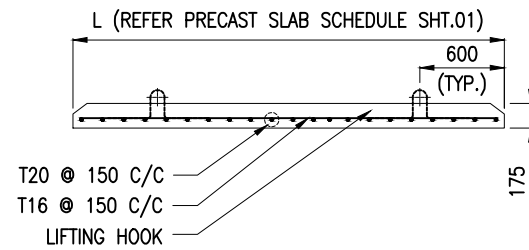
NOTES:

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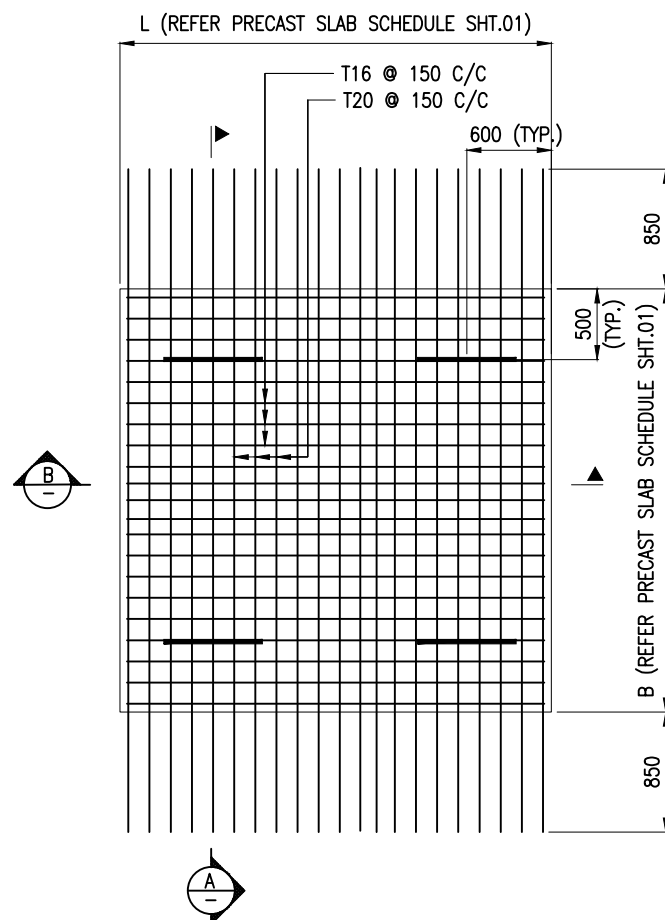
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 1 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-404-01		DATE: 20.05.26		REV: B



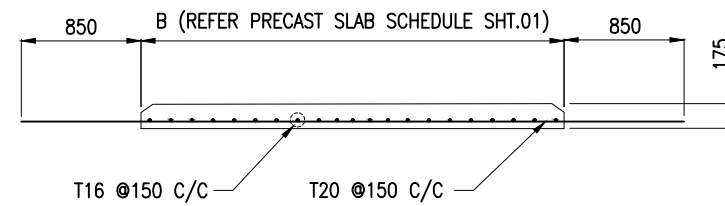
SECTION A
(SCALE 1:50)



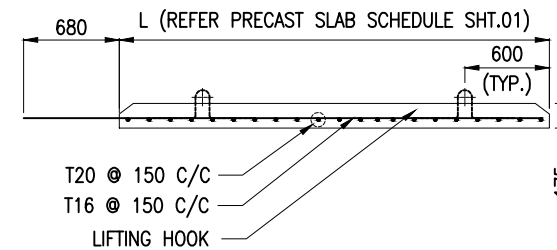
SECTION B
(SCALE 1:50)



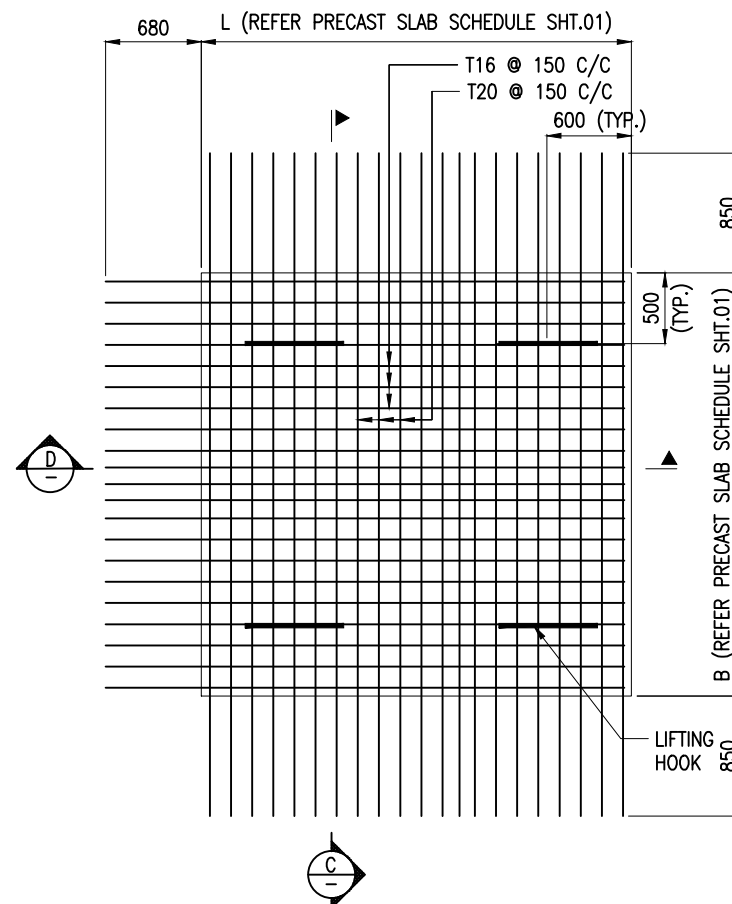
DETAILS OF PRECAST SLAB S2, S3, S5
(SCALE 1:50)



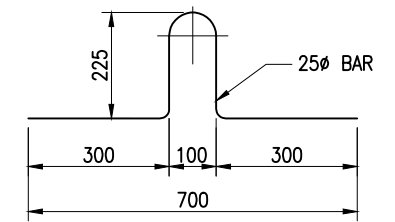
SECTION C
(SCALE 1:50)



SECTION D
(SCALE 1:50)



DETAILS OF PRECAST SLAB S1, S6
(SCALE 1:50)

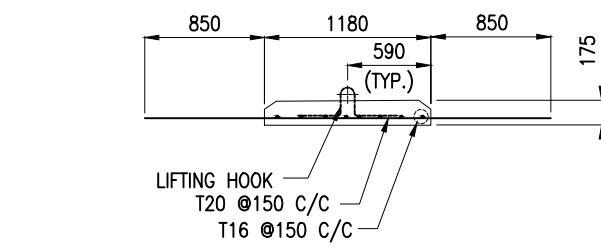


DETAIL OF LIFTING HOOK
(SCALE 1:15)

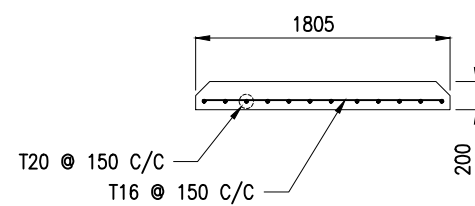
NOTES:

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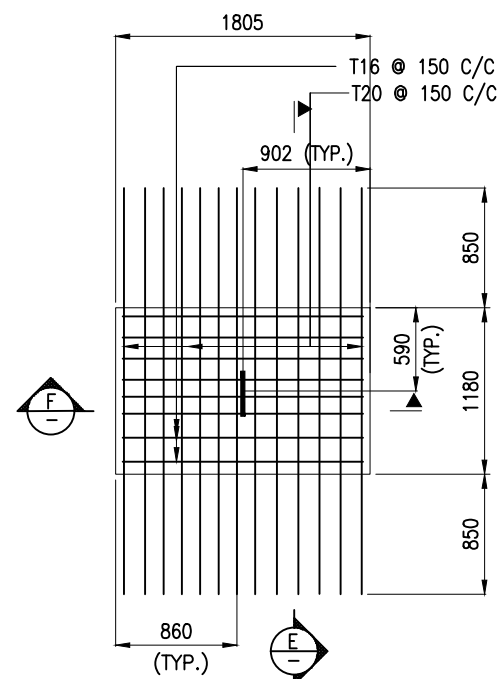
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 2 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-404-02		DATE: 20.05.26		REV: B



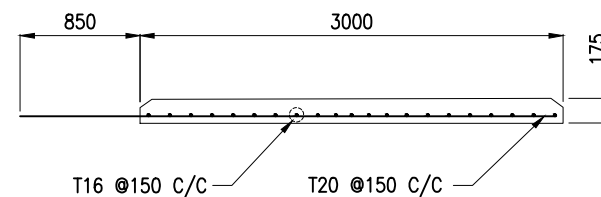
SECTION E
(SCALE 1:50)



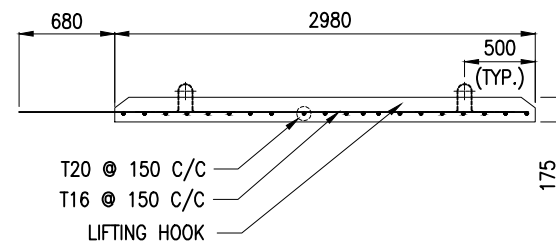
SECTION F
(SCALE 1:50)



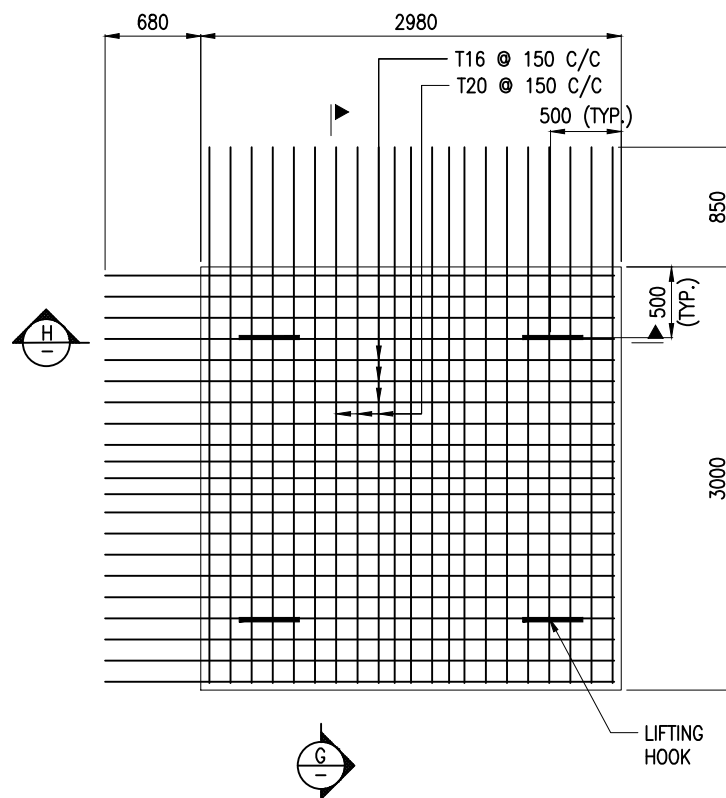
DETAILS OF PRECAST SLAB S7
(SCALE 1:50)



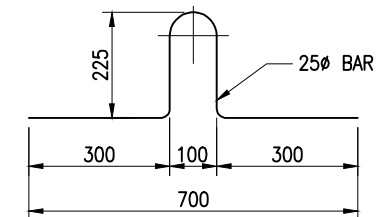
SECTION G
(SCALE 1:50)



SECTION H
(SCALE 1:50)



DETAILS OF PRECAST SLAB S4
(SCALE 1:50)

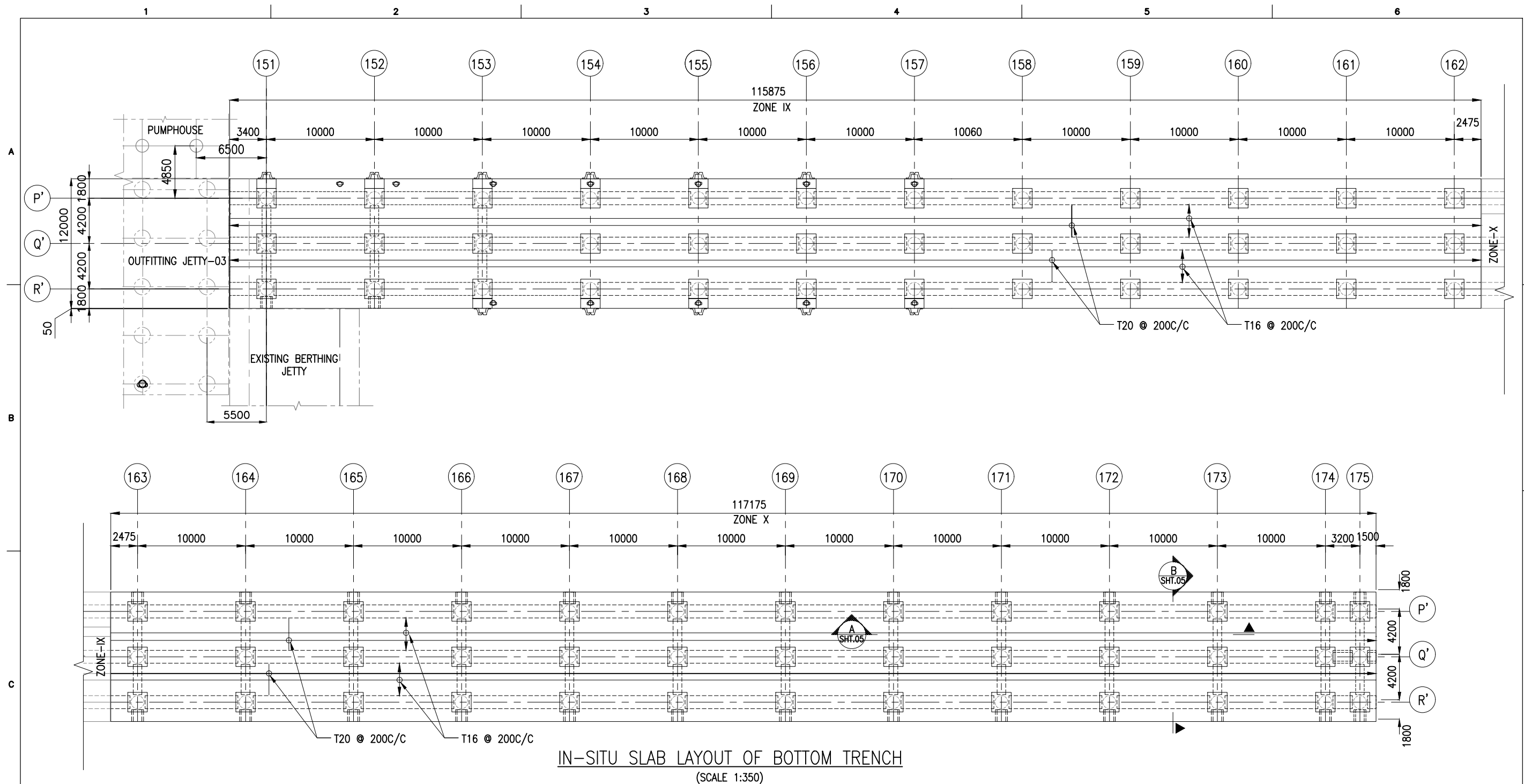


DETAIL OF LIFTING HOOK
(SCALE 1:15)

NOTES:



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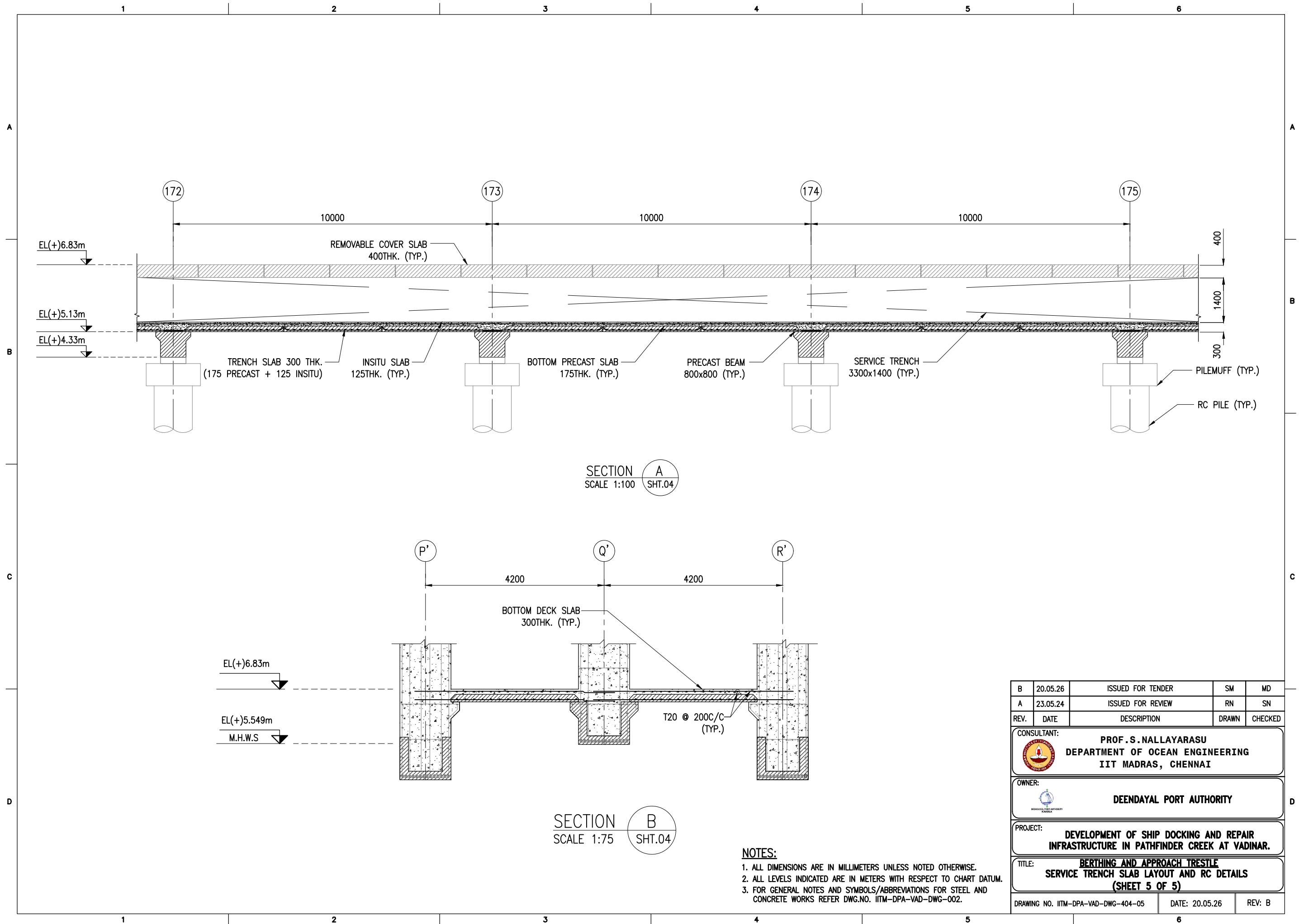
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 3 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-404-03		DATE: 20.05.26		REV: B



NOTES:



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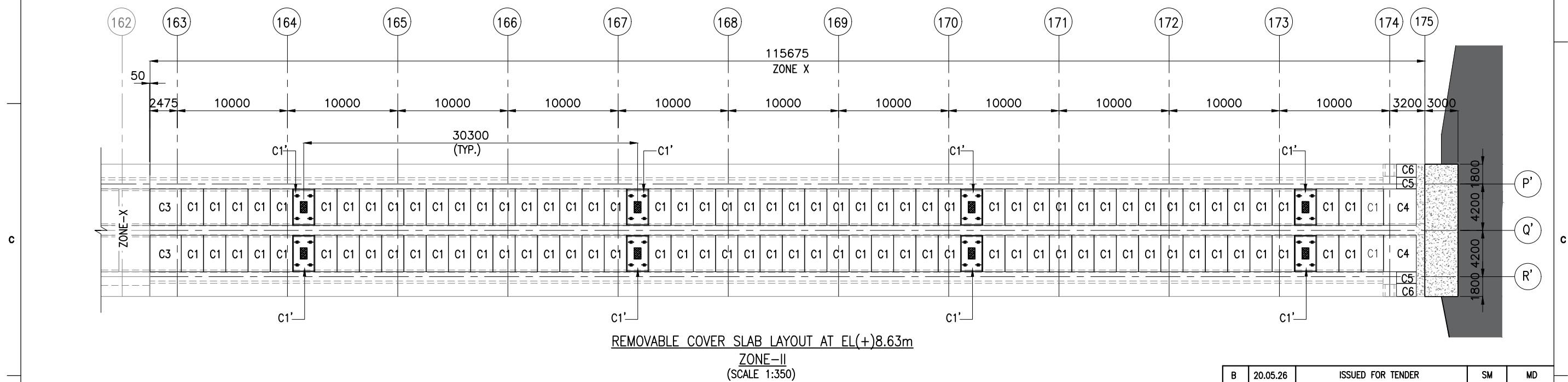
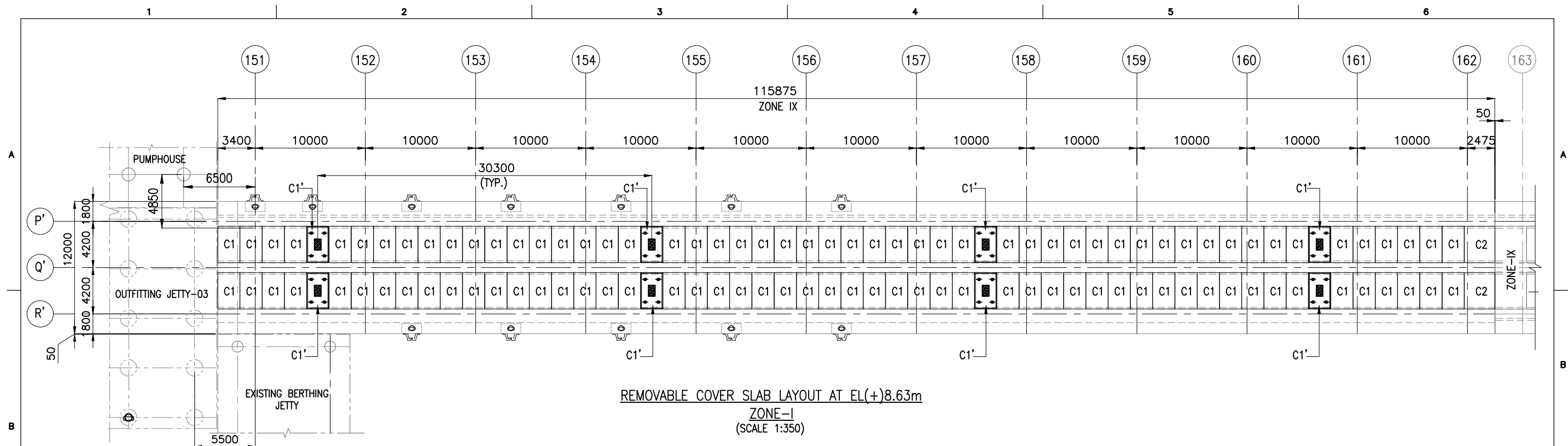
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	RN	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 4 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-404-04		DATE: 20.05.26		REV: B



NOTES:

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A	23.05.24	ISSUED FOR REVIEW	RN	SN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:  PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:  DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE SERVICE TRENCH SLAB LAYOUT AND RC DETAILS (SHEET 5 OF 5)				
DRAWING NO. IITM-DPA-VAD-DWG-404-05		DATE: 20.05.26		REV: B





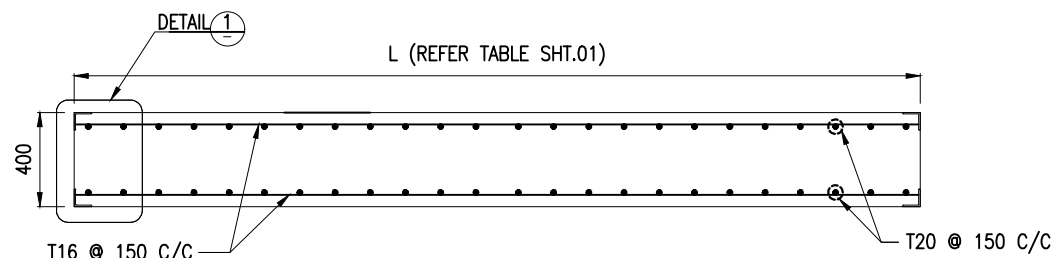
REMOVABLE COVER SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
C1	2000	3300	400	6.60	204
C1'	2000	3300	400	6.60	16
C2	2755	3300	400	9.09	02
C3	2825	3300	400	9.33	02
C4	2980	3300	400	9.83	02
C5	1805	1030	400	1.85	02
C6	1805	1180	400	2.12	02

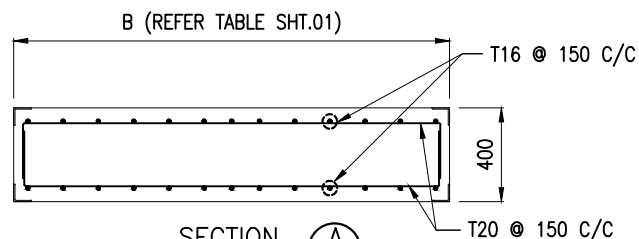
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

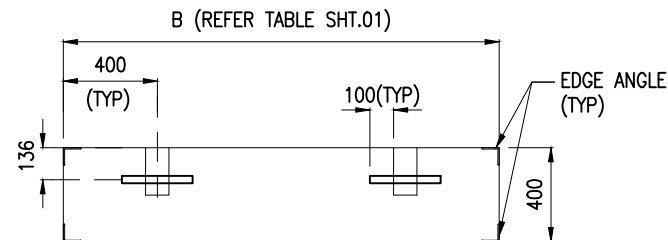
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 1 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-405-01		DATE: 20.05.26	REV: B	



SECTION B
(SCALE 1:30)

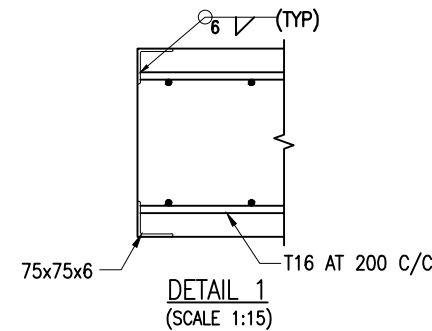


SECTION A
(SCALE 1:30)

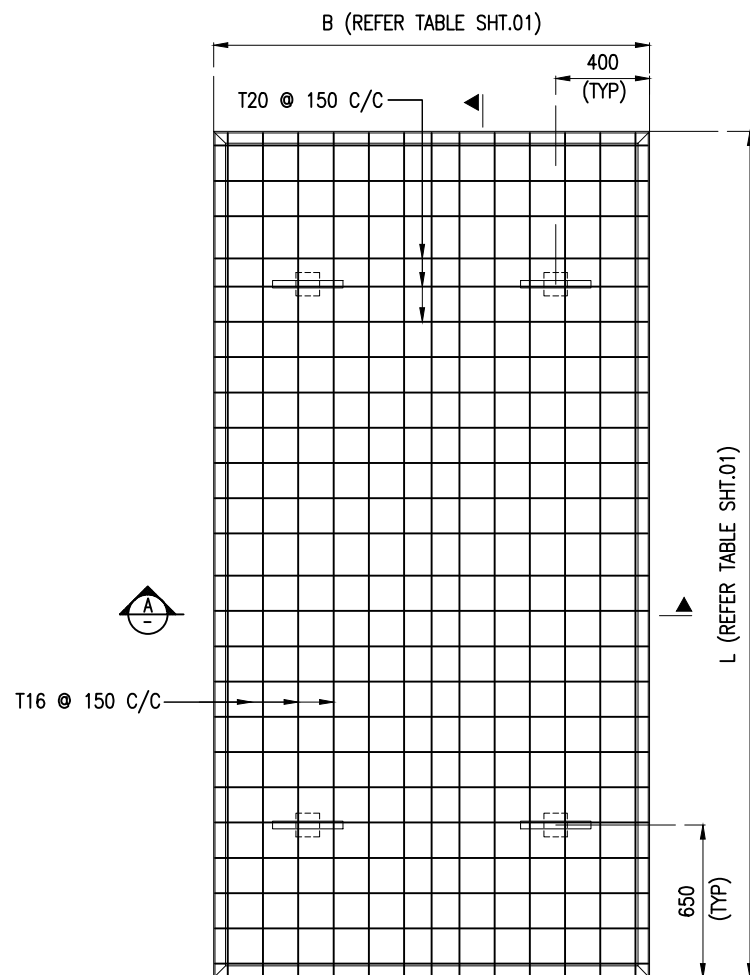


SECTION C
(SCALE 1:30)

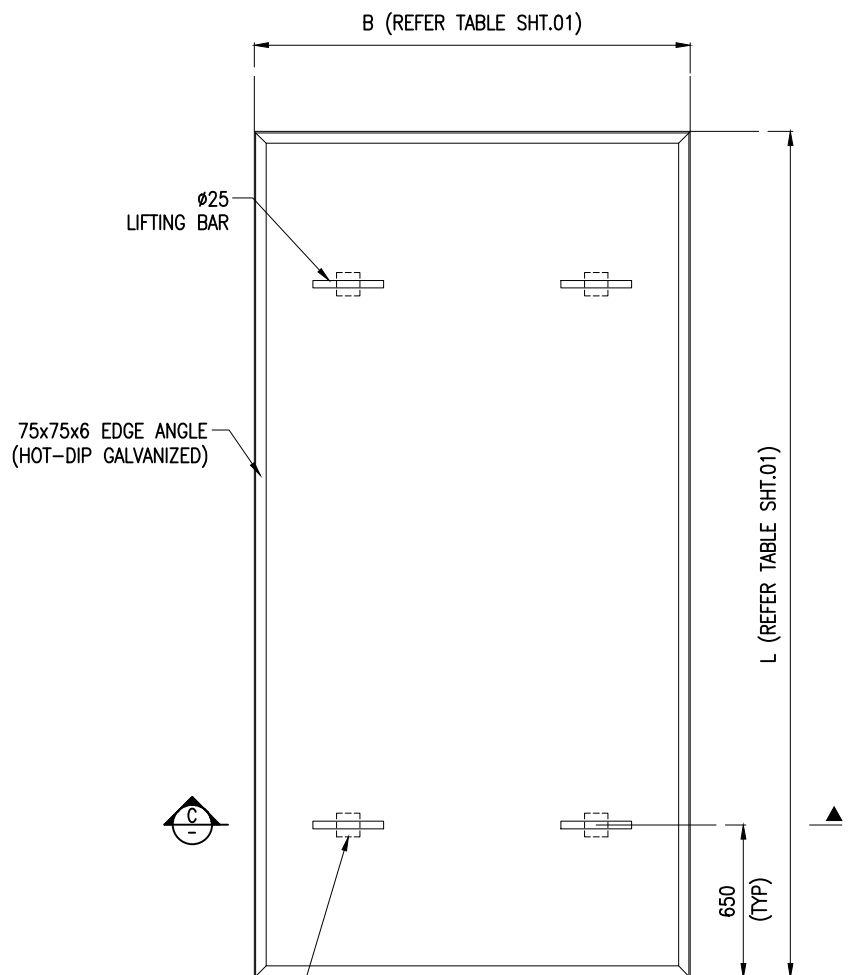
(REINFORCEMENT NOT SHOWN FOR CLARITY)



DETAIL 1
(SCALE 1:15)



PLAN
TYPICAL DETAILS OF PRECAST SLAB
(SCALE 1:30)

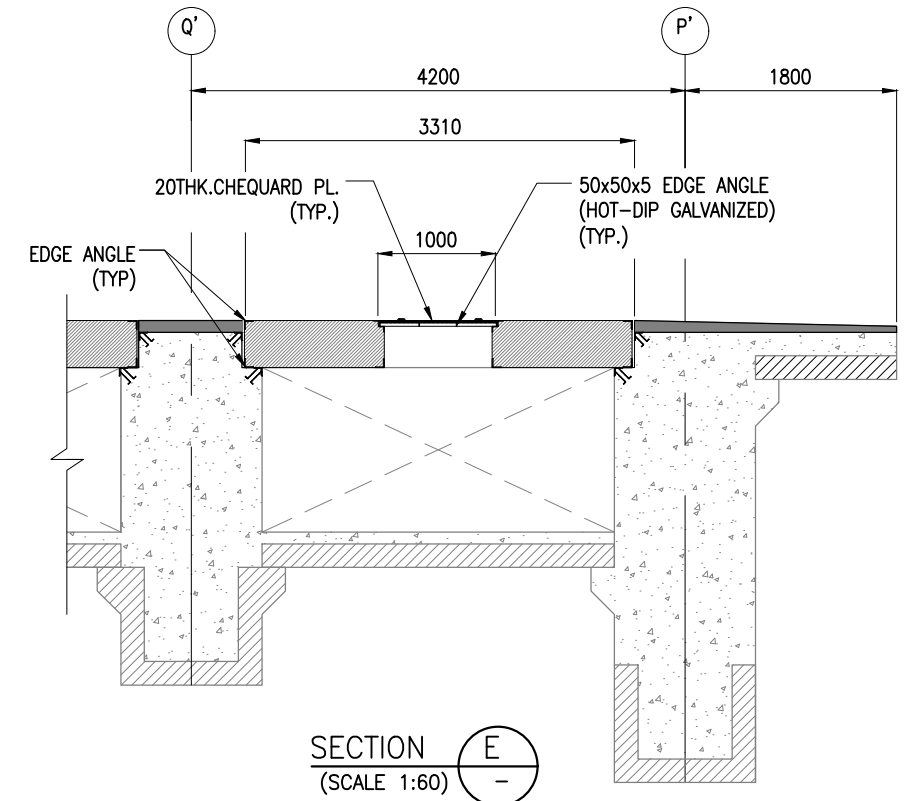
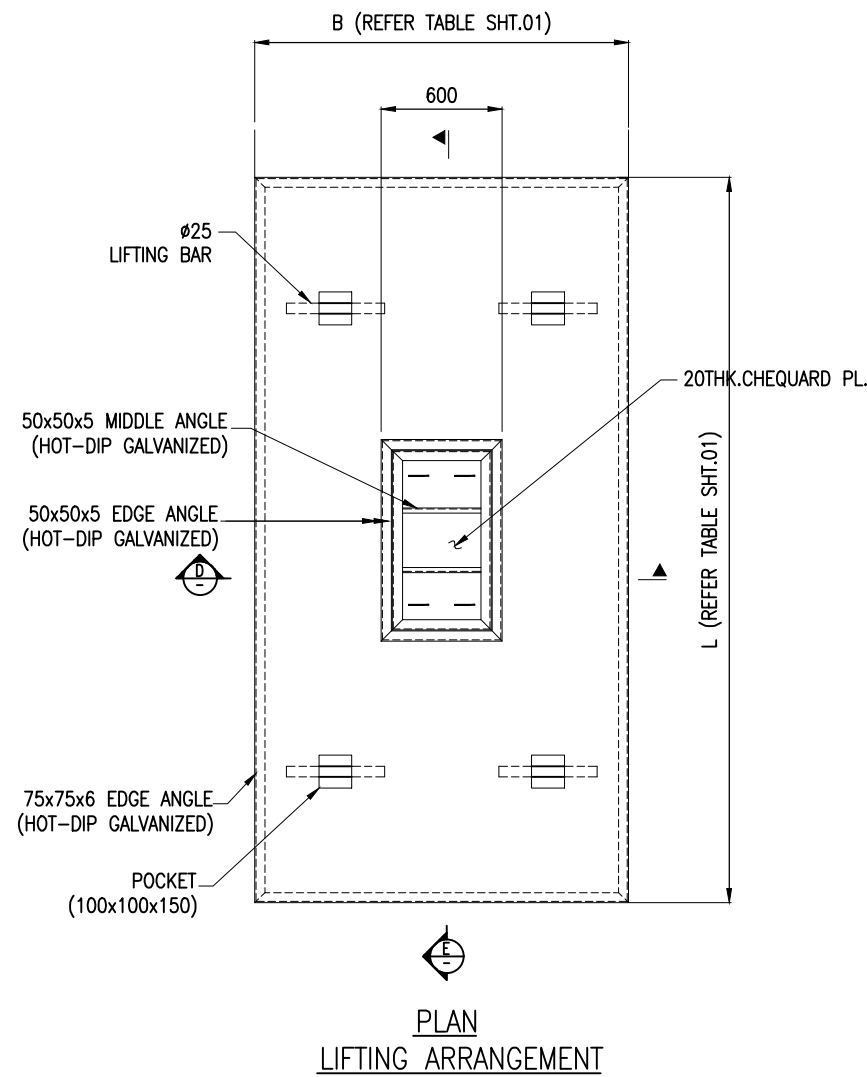
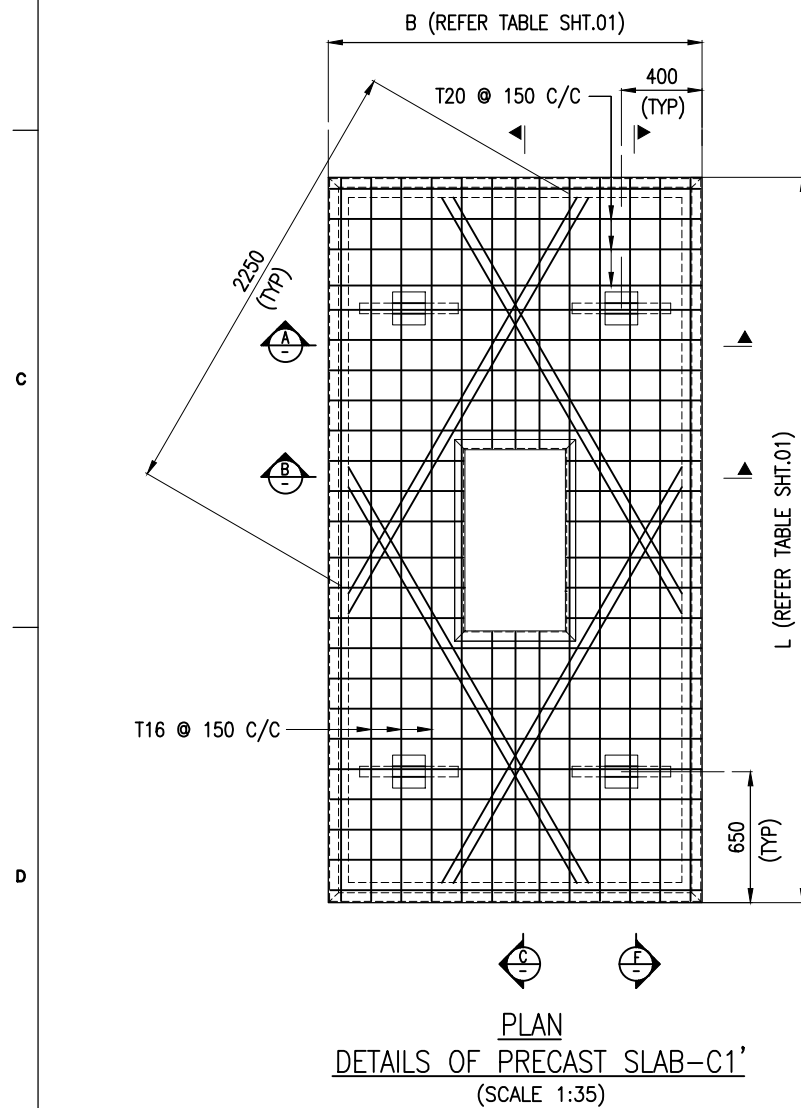
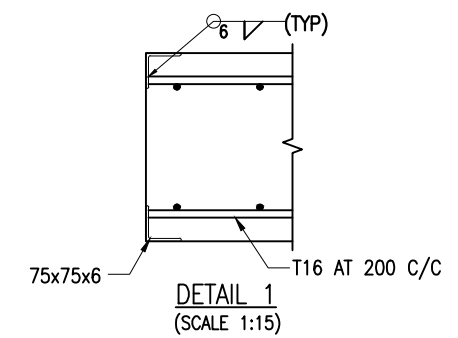
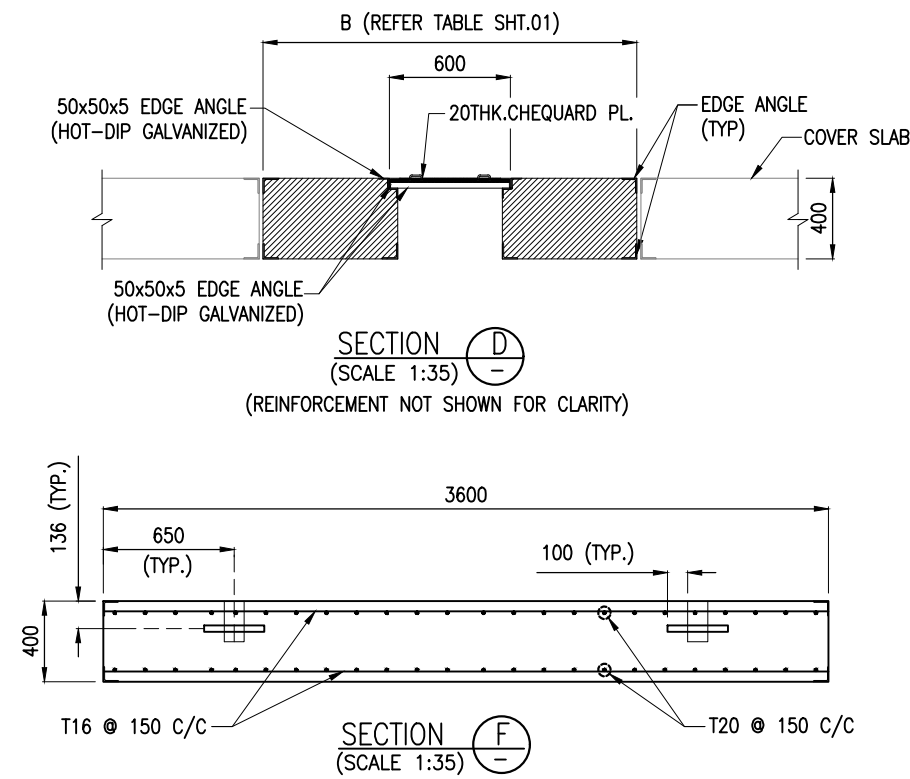
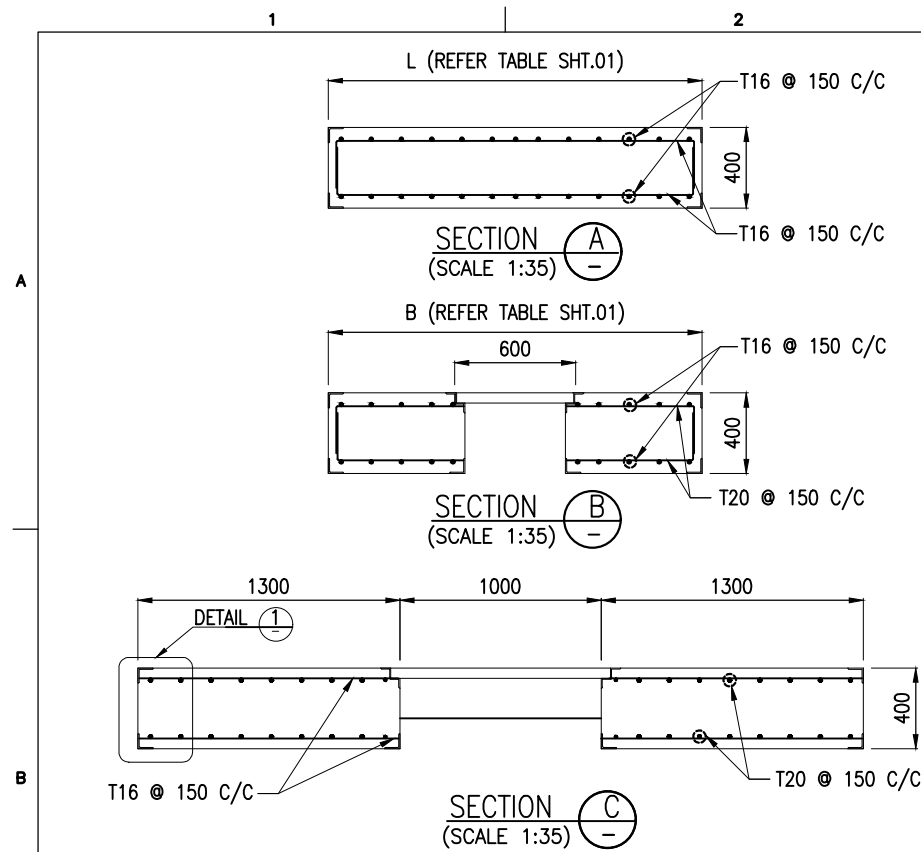


PLAN
LIFTING ARRANGEMENT

NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
3. FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

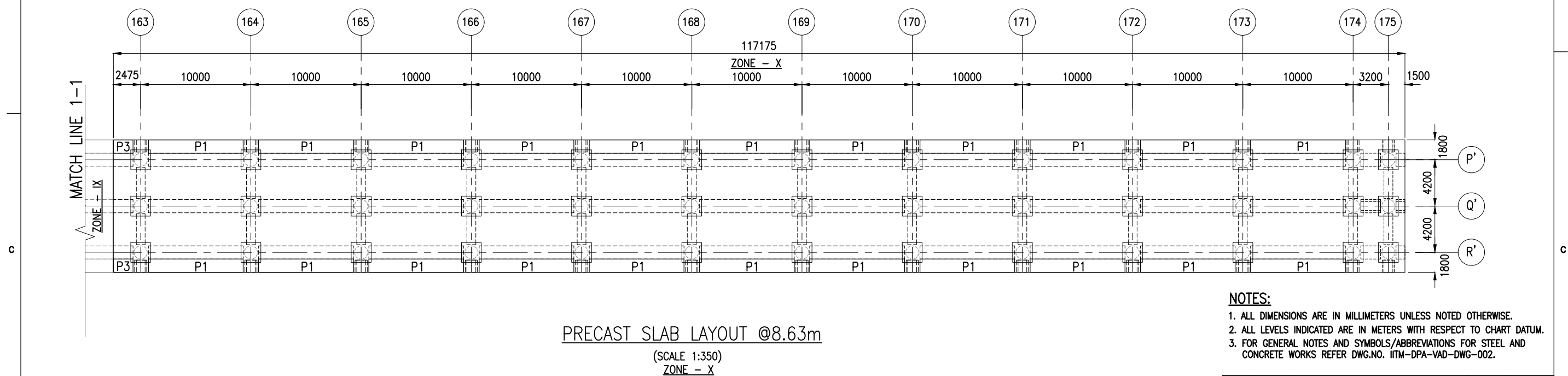
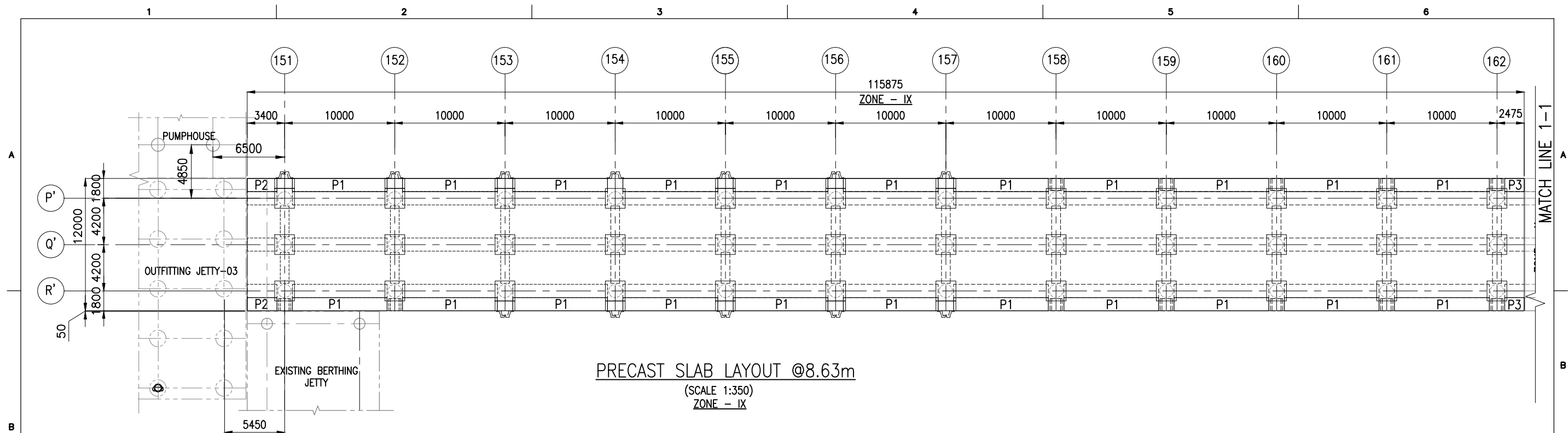
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 2 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-405-02		DATE: 20.05.26		REV: B



NOTES:

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- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.
- ALL ANGLES SHALL CONFORM TO IS2062 GRADE E250 OR EQUIVALENT AND SHALL BE HOT-DIP GALVANISHED IN ACCORDANCE WITH IS2629.
- CHEQUERED PLATES SHALL CONFORM TO IS3502 GARDE 250A.

B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND DETAILS OF PRECAST COVER SLAB (SHEET 3 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-405-03		DATE: 20.05.26	REV: B	





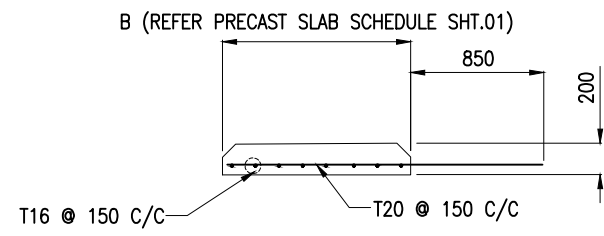
PRECAST SLAB SCHEDULE

TYPE	L(mm)	B(mm)	D(mm)	WEIGHT(T)	NOS
P1	8600	1200	200	5.16	44
P2	2700	1200	200	1.62	02
P3	1775	1200	200	1.06	04

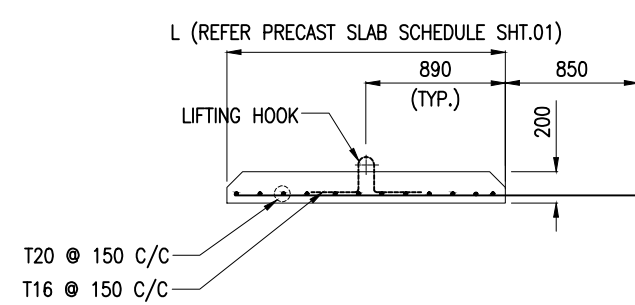
NOTES:

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- ALL LEVELS INDICATED ARE IN METERS WITH RESPECT TO CHART DATUM.
- FOR GENERAL NOTES AND SYMBOLS/ABBREVIATIONS FOR STEEL AND CONCRETE WORKS REFER DWG.NO. IITM-DPA-VAD-DWG-002.

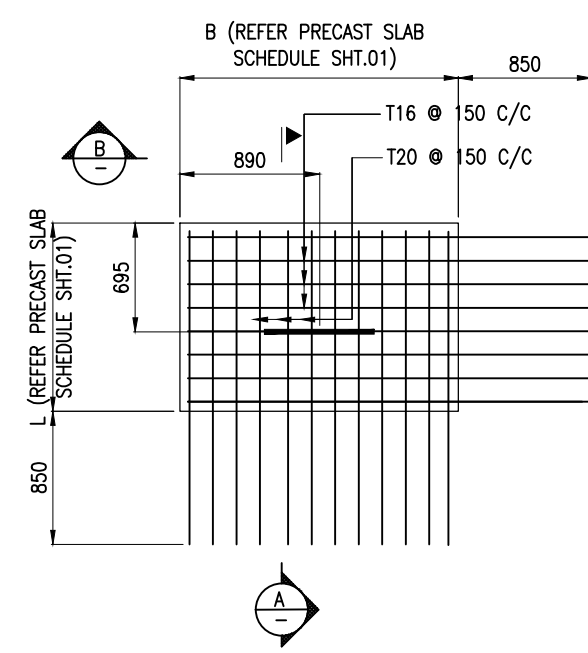
B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT AND DETAILS OF PRECAST SLAB (SHEET 1 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-406-01		DATE: 20.05.26		REV: B



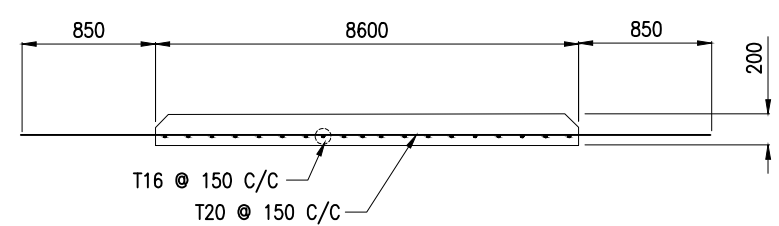
SECTION A
(SCALE 1:45)



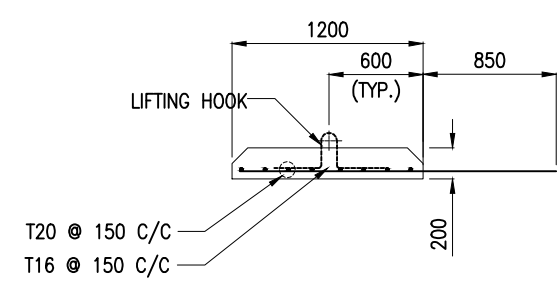
SECTION B
(SCALE 1:45)



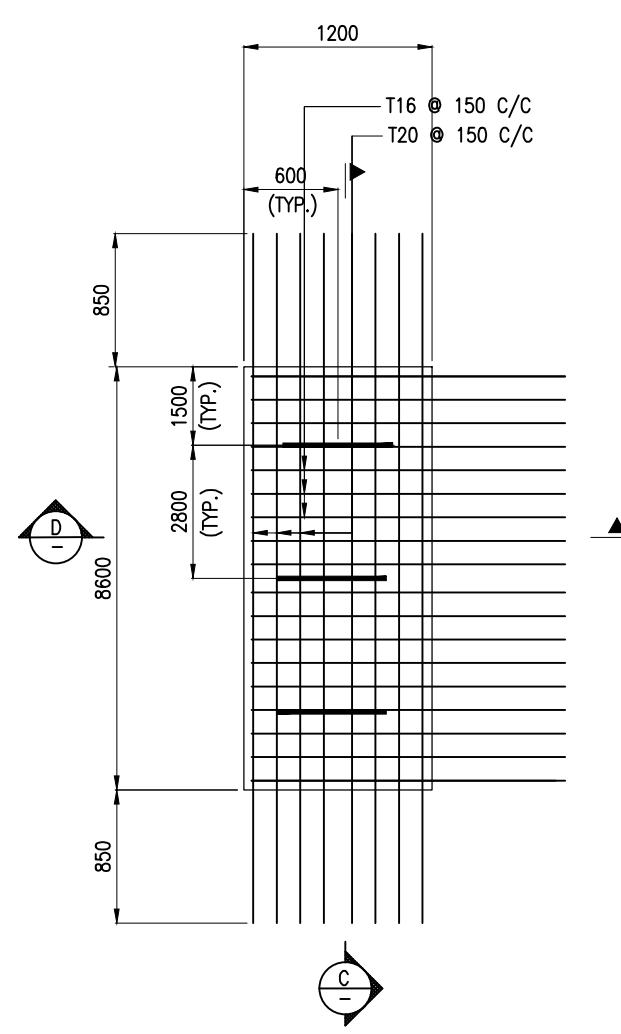
PRECAST SLAB DETAILS FOR P2 & P3
(SCALE 1:45)



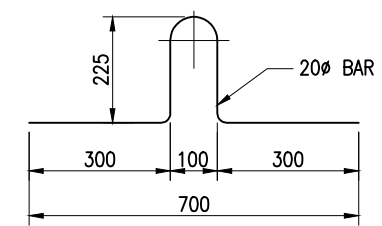
SECTION C
(SCALE 1:45)



SECTION D
(SCALE 1:45)



PRECAST SLAB DETAILS FOR P1
(SCALE 1:45)

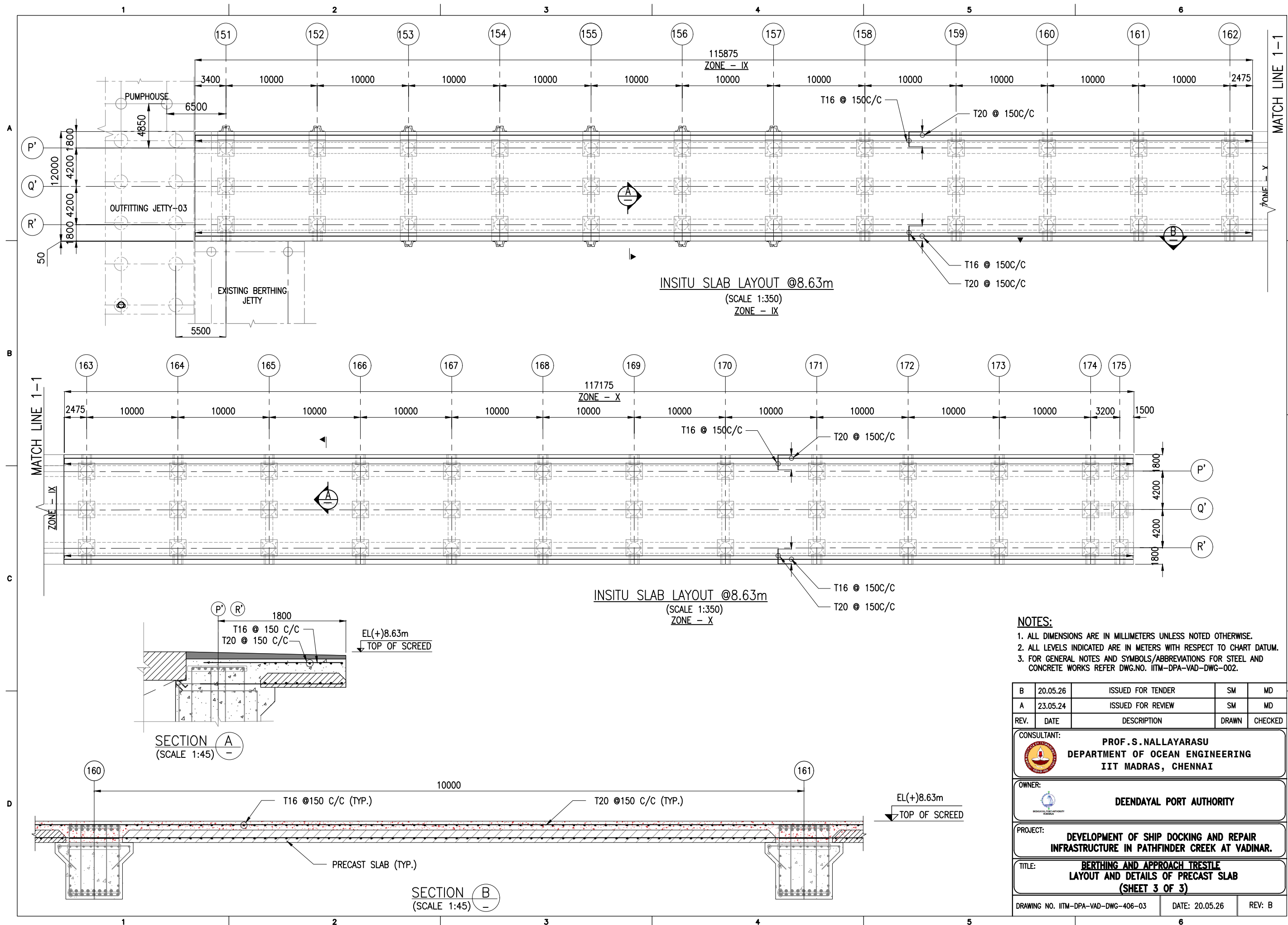


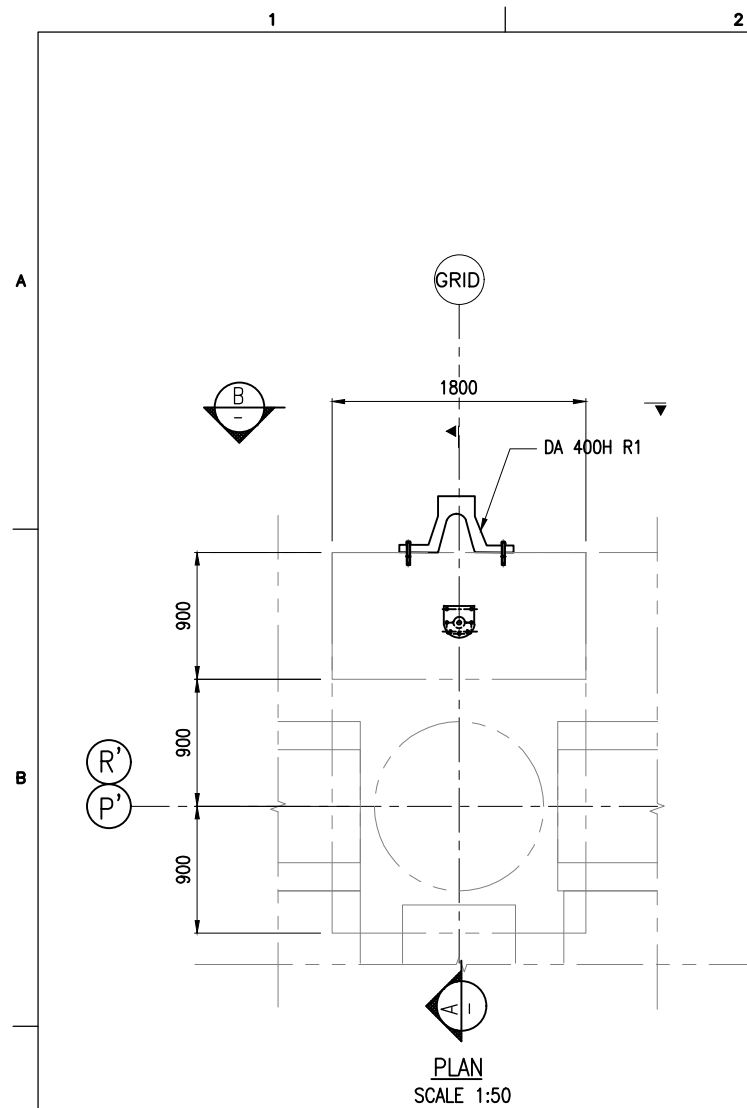
DETAIL OF LIFTING HOOK
(SCALE 1:15)

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B	20.05.26	ISSUED FOR TENDER	SM	MD
A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE LAYOUT AND DETAILS OF PRECAST SLAB (SHEET 2 OF 3)				
DRAWING NO. IITM-DPA-VAD-DWG-406-02		DATE: 20.05.26		REV: B



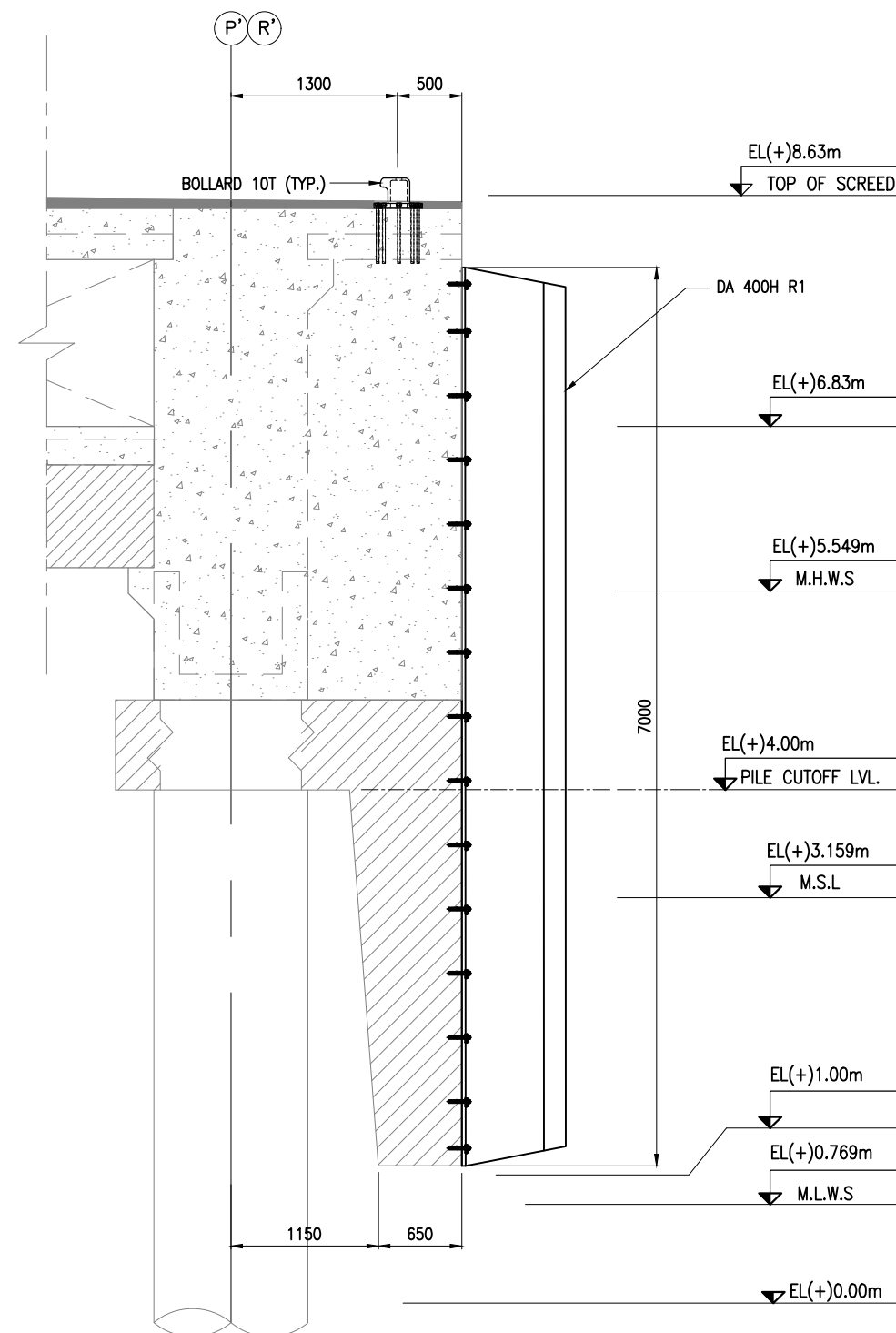


SCHEDULE FOR FENDER

GRID	FENDER AT GRID LOCATION	NOS.
P'	153,154,155,156, 157,158,159	7
R'	154,155,156, 157,158,159	6

SCHEDULE FOR BOLLARD

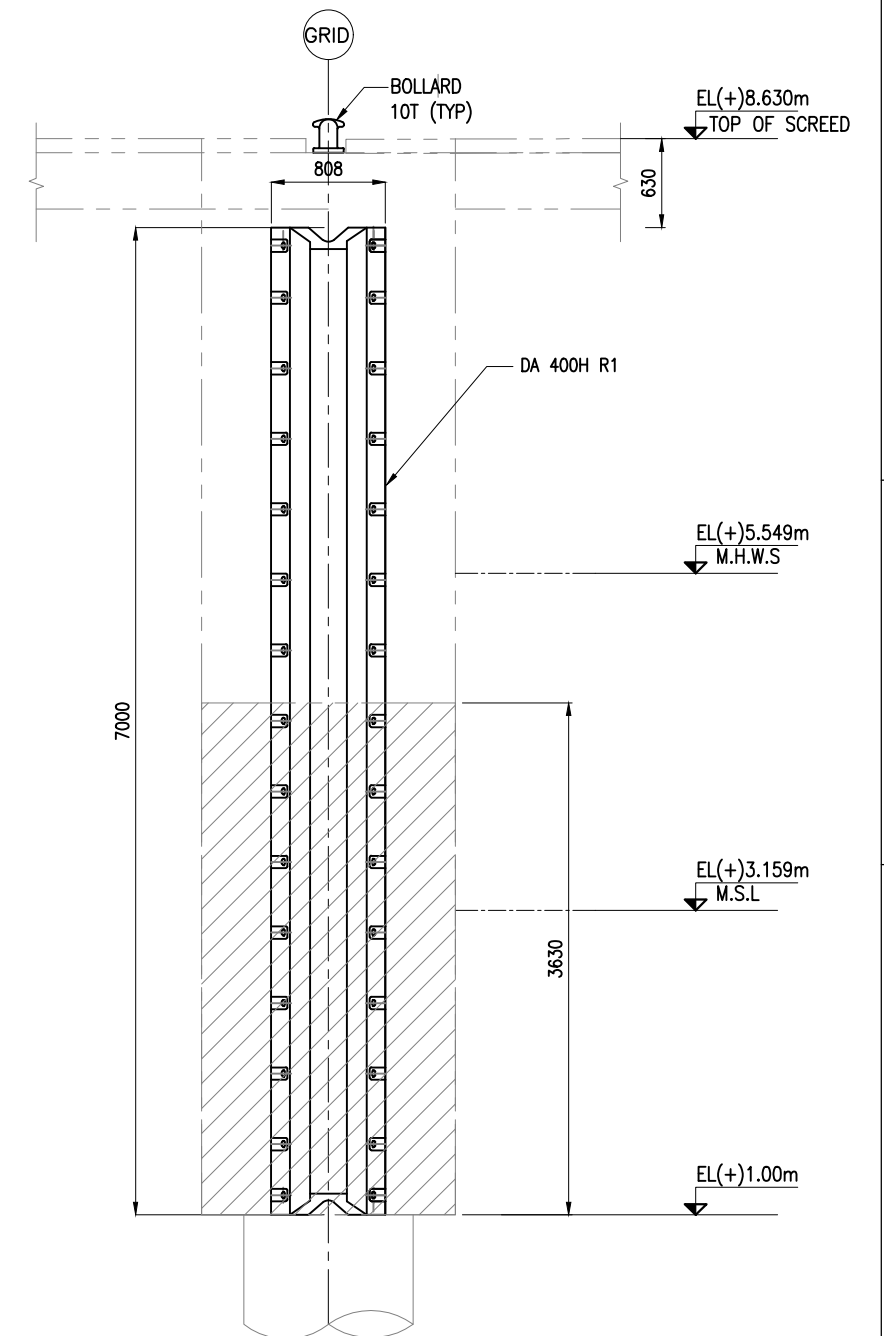
GRID	BOLLARD AT GRID LOCATION	NOS.
P'	153,154,155,156, 157,158,159	7
R'	154,155,156, 157,158,159	6



SECTION (SCALE 1:50)

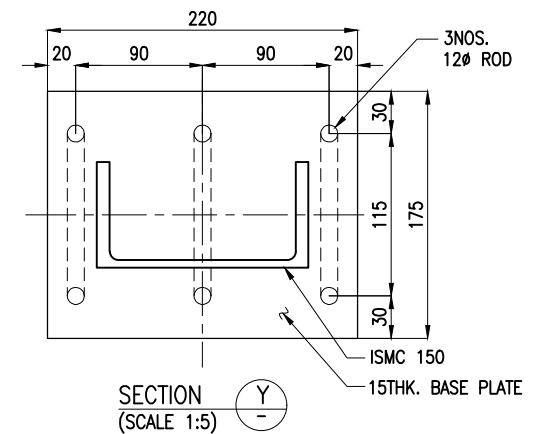
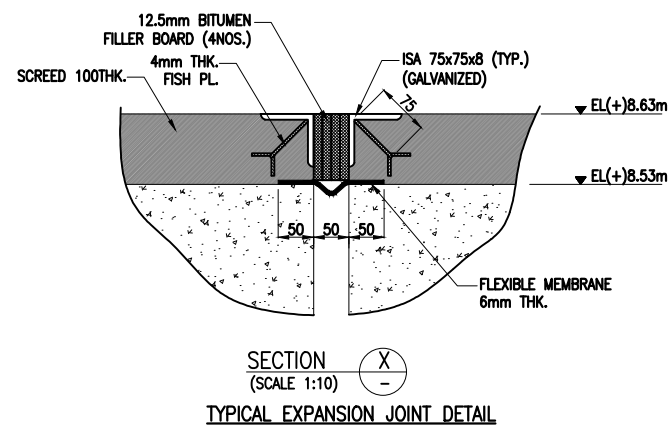
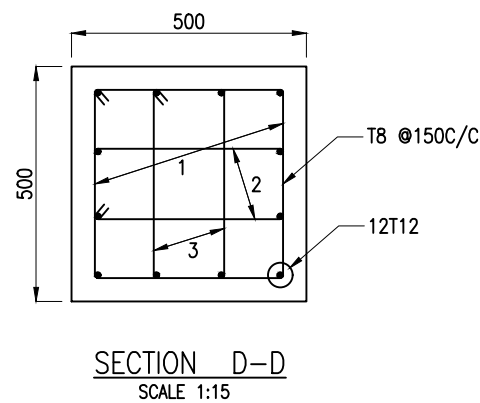
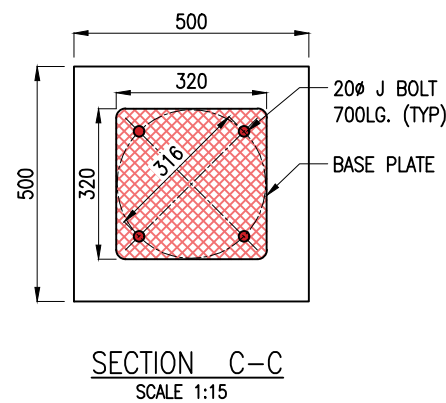
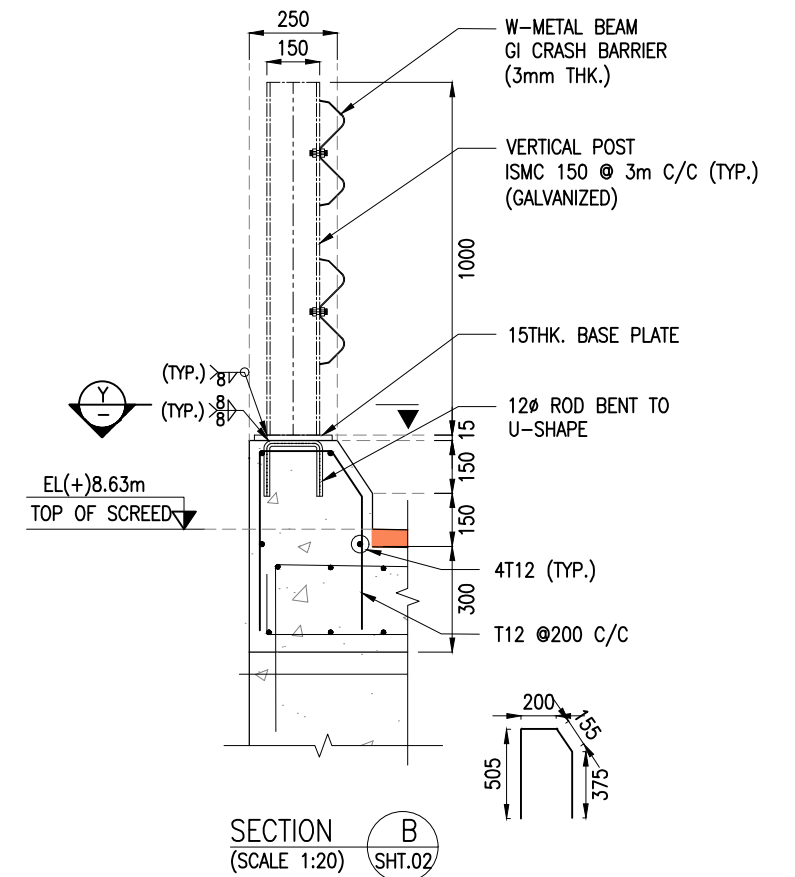
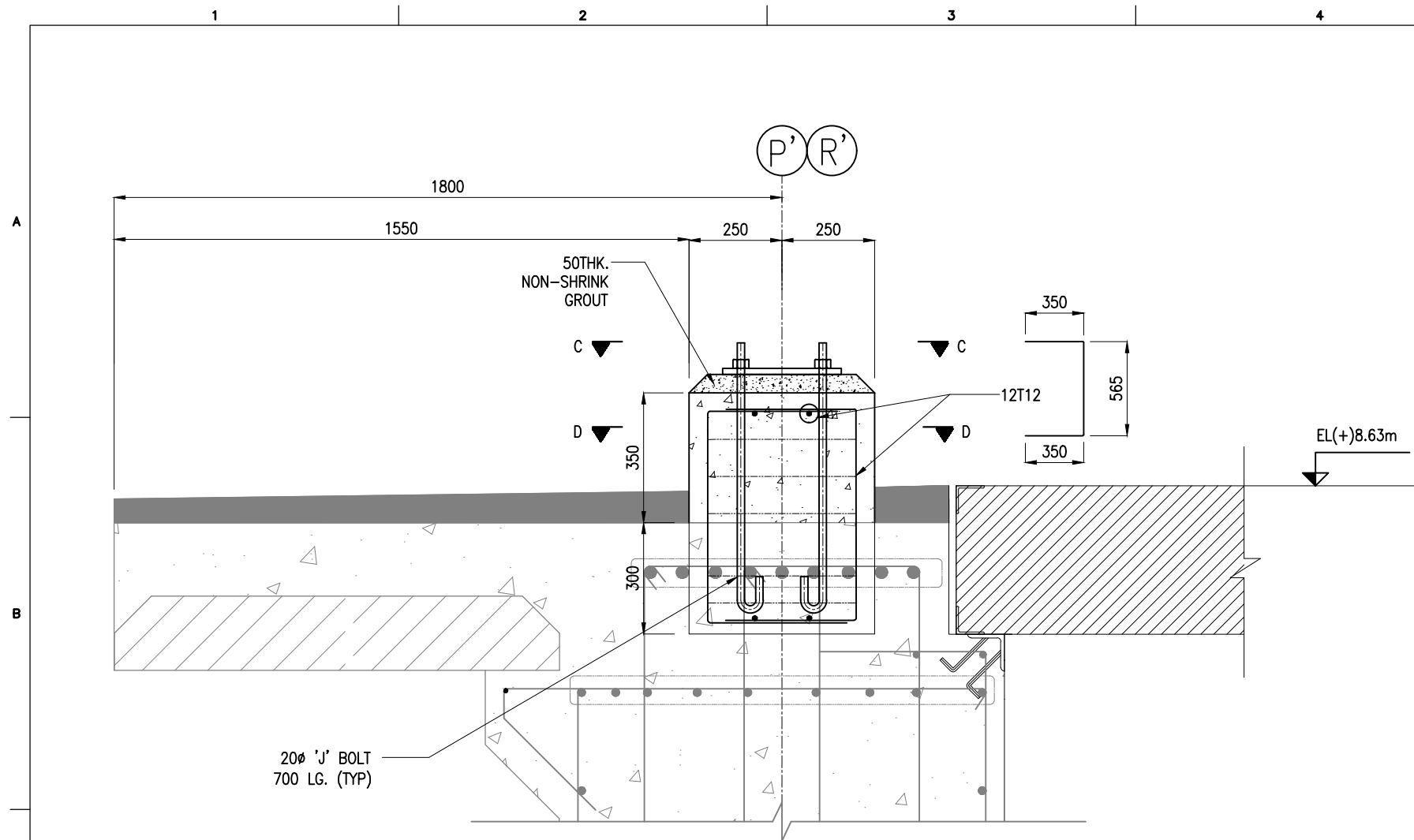
NOTES:

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4. ARCH TYPE FENDER WITH 5.5MT/m ENERGY CAPACITY SHALL BE SELECTED WITH NOT TO EXCEED REACTION OF 45.6MT/m. SELECTED FENDER SHALL BE INSTALLED WITH ALL NECESSARY ANCHORS ON TO THE CONCRETE. THE ANCHORS SHALL BE DESIGNED FOR ALL DESIGN FORCES DURING BERTHING.





SECTION (SCALE 1:50)

B	20.05.26	ISSUED FOR TENDER	SM	MD
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT: PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER: DEENDAYAL PORT AUTHORITY				
PROJECT: DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE: BERTHING AND APPROACH TRESTLE FIXING DETAILS OF FENDER/BOLLARD				
DRAWING NO. IITM-DPA-VAD-DWG-407			DATE: 20.05.26	REV: B



NOTES:

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A	23.05.24	ISSUED FOR REVIEW	SM	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
CONSULTANT:				
 PROF. S. NALLAYARASU DEPARTMENT OF OCEAN ENGINEERING IIT MADRAS, CHENNAI				
OWNER:				
 DEENDAYAL PORT AUTHORITY				
PROJECT:				
DEVELOPMENT OF SHIP DOCKING AND REPAIR INFRASTRUCTURE IN PATHFINDER CREEK AT VADINAR.				
TITLE:				
BERTHING AND APPROACH TRESTLE LAYOUT & DETAILS OF LAMP POST & LIGHT MAST/CRASH BARRIER (SHEET 2 OF 2)				
DRAWING NO. IITM-DPA-VAD-DWG-408-02			DATE: 20.05.26	REV: B