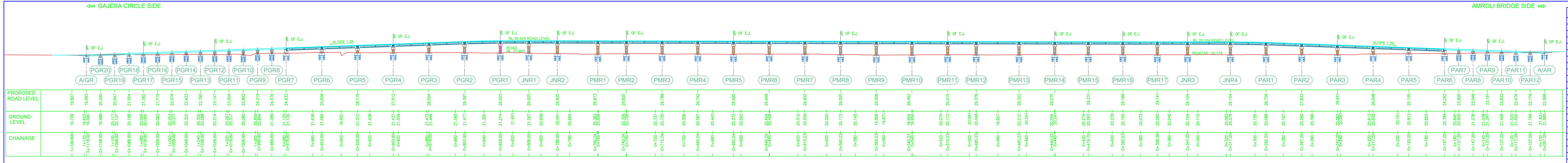
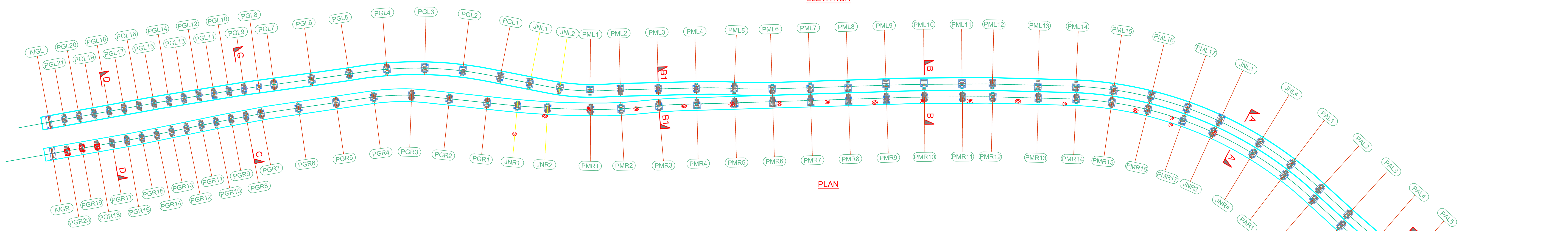
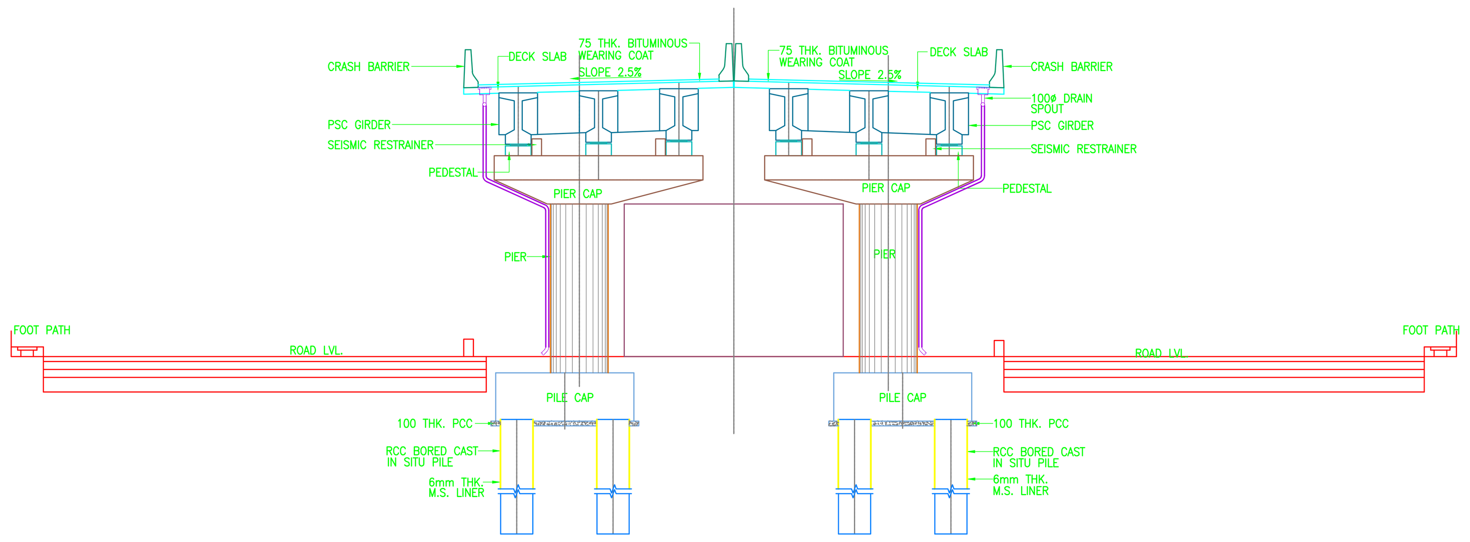


ELEVATION

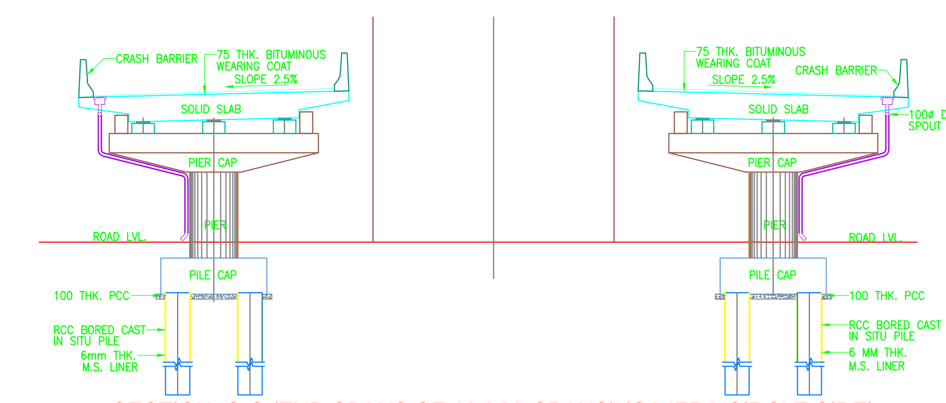


PLAN



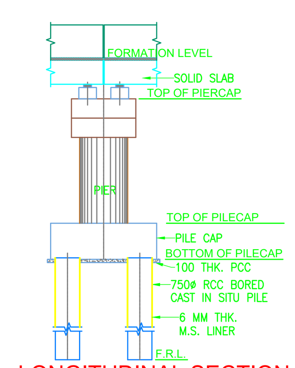
SECTION: A-A (JUNCTION SPAN OF 30.0 M)

SCALE 1:100



SECTION: C-C (END SPANS OF 10.0 M SPANS) (GAJERA CIRCLE SIDE)

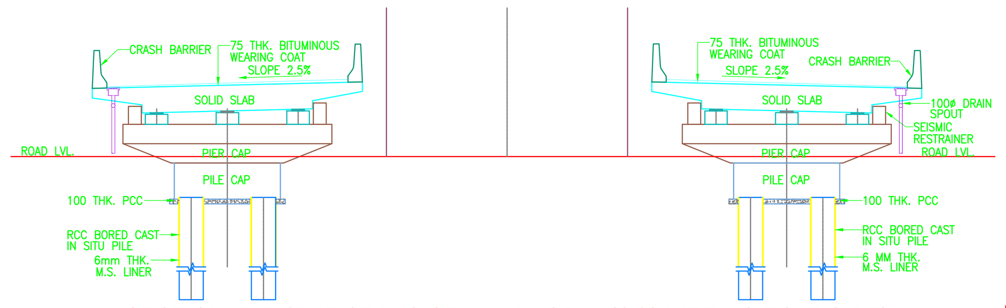
SCALE 1:100



LONGITUDINAL SECTION

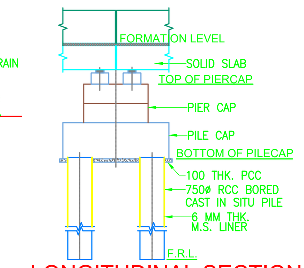
(FOR 10.00 m SPAN)

SCALE 1:100



SECTION: D-D (END SPANS OF 10.0 M SPANS) (GAJERA CIRCLE SIDE)

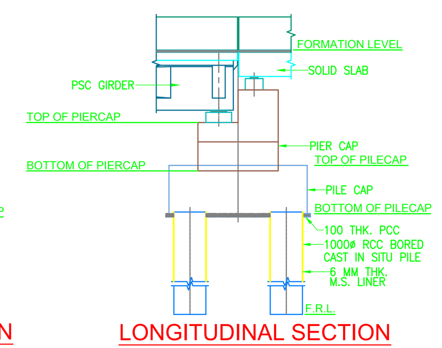
SCALE 1:100



LONGITUDINAL SECTION

(FOR 10.00 m SPAN)

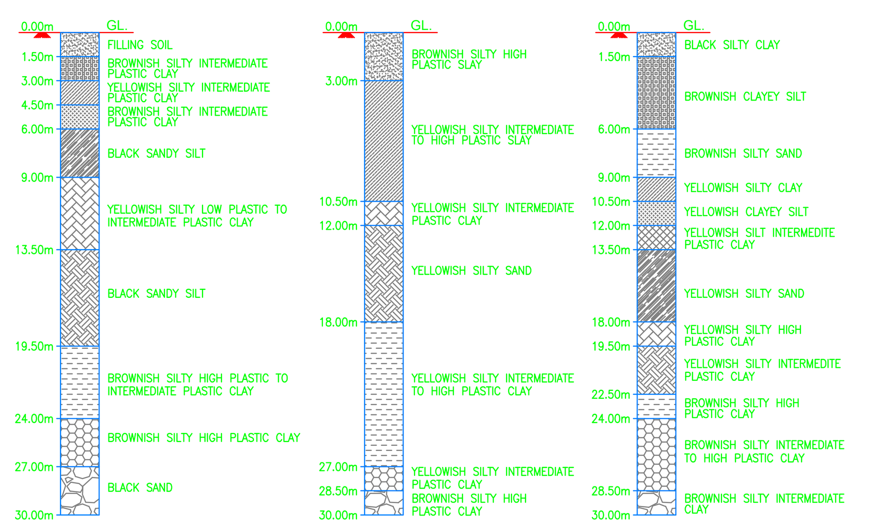
SCALE 1:100

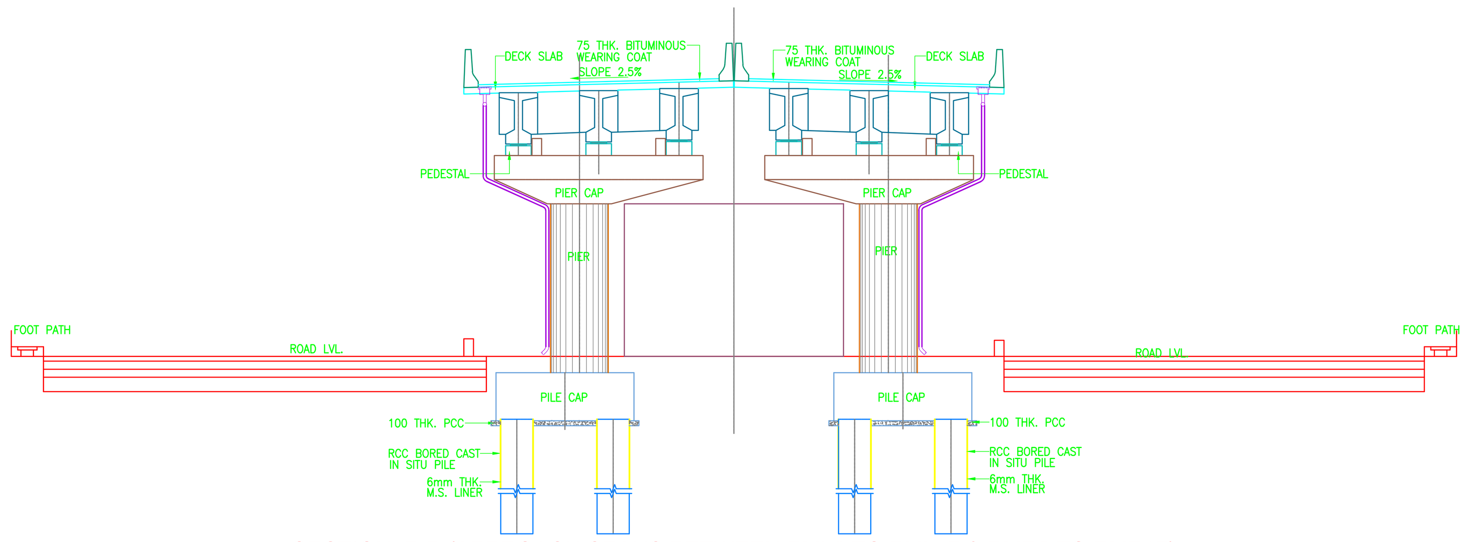


LONGITUDINAL SECTION

(FOR PIER-PGL7, PGR7, PAL6, PAR6)

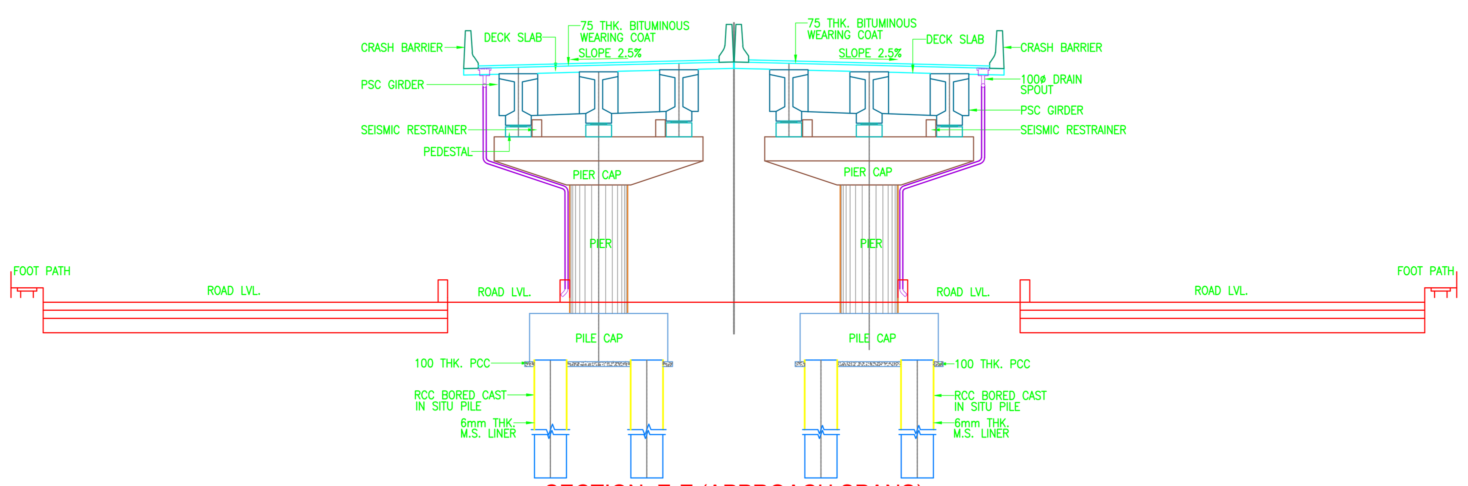
SCALE 1:100





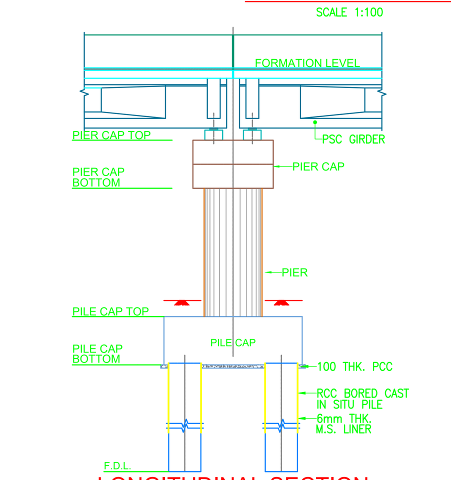
SECTION: B-B (APPROACH SPANS BETWEEN PML6 TO PML17 & PMR6 TO PMR17)

SCALE 1:100



SECTION: E-E (APPROACH SPANS)

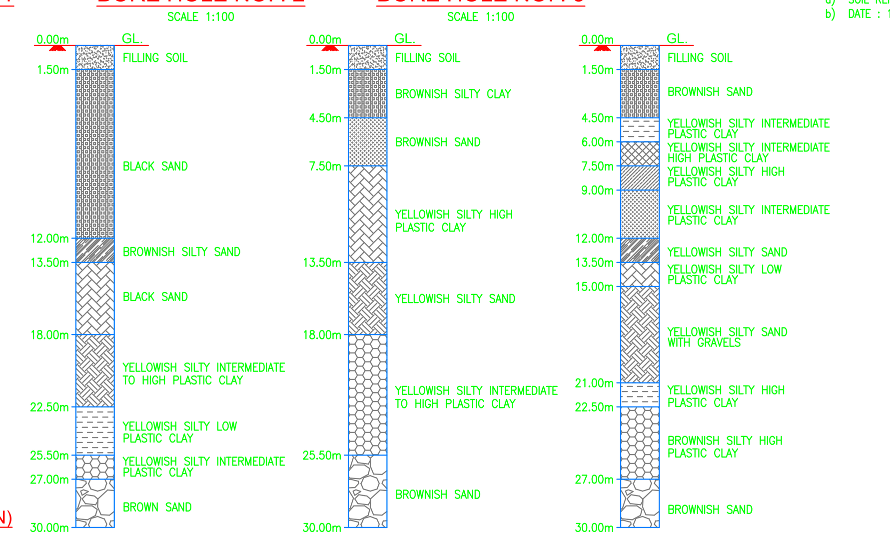
SCALE 1:100

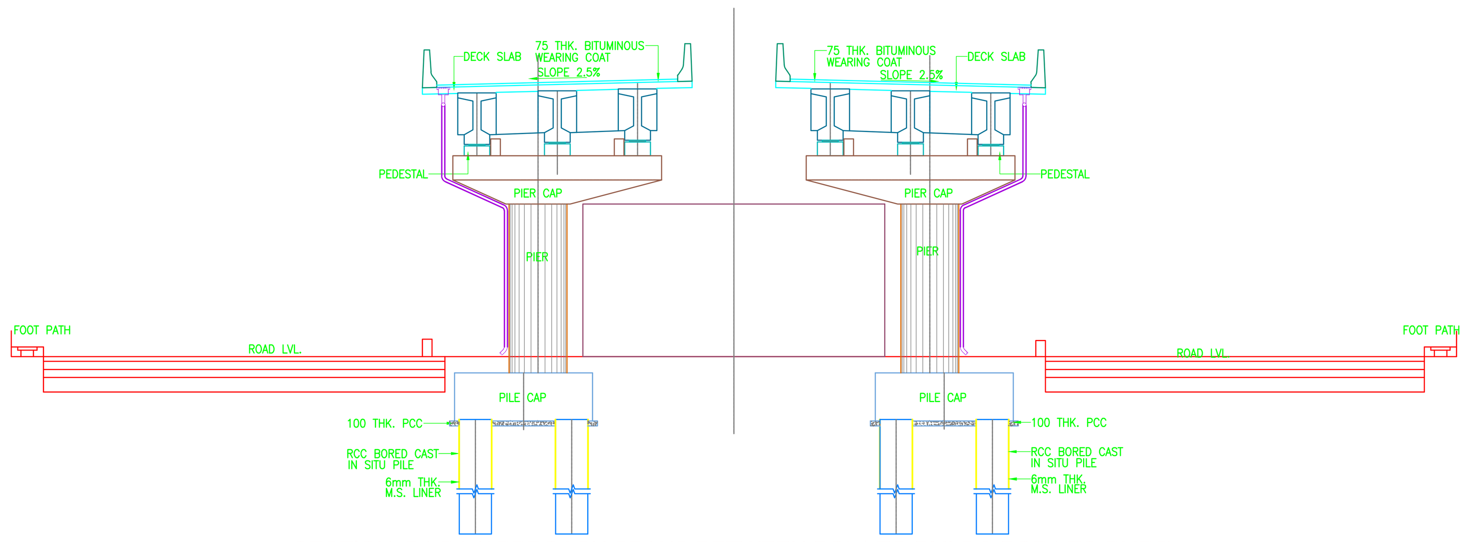


LONGITUDINAL SECTION

(FOR 20.00m SPAN, 25.00 m SPAN & 30.00 m SPAN)

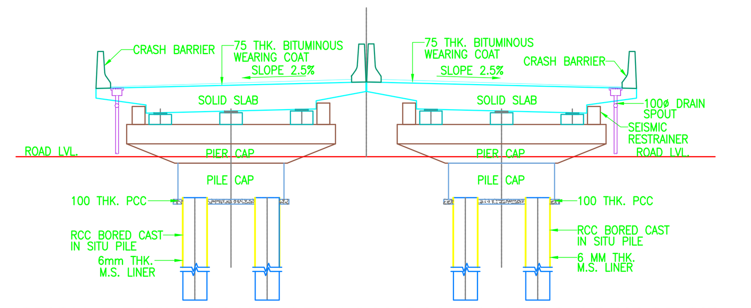
SCALE 1:100





SECTION: B1-B1 (APPROACH SPANS BETWEEN PGL1 TO PML5 & PGR1 TO PMR5)

SCALE 1:100



CTION: F-F (END SPANS OF 10.0 M SPANS) (AMROLI BRIDGE SID

SCALE 1:100

PIER NO.	FRL	PIERCAP TOP LVL.	PIERCAP BOTTOM LVL.	PILECAP TOP LVL.	PILECAP BOTTOM LVL.	GROUND LVL.	HEIGHT OF PIER
A/GR	19.993	18.743	17.618	18.743	17.618	19.690	–
PGR20	20.290	19.040	17.915	19.040	17.915	19.988	–
PGR19	20.647	19.397	18.272	19.397	18.272	20.137	–
PGR18	21.004	19.754	18.629	19.754	18.629	20.188	–
PGR17	21.362	20.112	18.987	20.112	18.987	20.064	–
PGR16	21.719	20.469	19.269	19.700	18.575	20.083	–
PGR15	22.076	20.826	19.626	19.850	18.725	20.271	–
PGR14	22.433	21.183	19.983	20.100	18.975	20.322	–
PGR13	22.790	21.540	20.340	19.840	18.715	20.288	0.500
PGR12	23.147	21.897	20.697	19.797	18.672	20.214	0.900
PGR11	23.504	22.254	21.054	19.854	18.729	20.317	1.200
PGR10	23.862	22.612	21.412	19.612	18.487	20.080	1.800
PGR9	24.219	22.969	21.769	20.469	19.344	20.894	1.300
PGR8	24.576	23.326	22.126	20.626	19.501	21.089	1.500
PGR7	24.933	22.633	21.133	21.300	19.800	21.130	–
PGR6	25.826	23.526	22.026	21.126	19.626	21.585	0.900
PGR5	26.719	24.419	22.919	21.119	19.619	21.572	1.800
PGR4	27.612	25.312	23.812	21.012	19.512	21.437	2.800
PGR3	28.504	26.204	24.704	21.004	19.504	21.466	3.700
PGR2	29.397	27.097	25.597	21.097	19.597	21.477	4.500
PGR1	29.925	27.625	26.125	20.825	19.325	21.274	5.300
JNR1	29.925	27.625	26.125	20.825	19.325	21.267	5.300
JNR2	29.925	27.625	26.125	20.525	19.025	20.941	5.600
PMR1	29.873	27.588	26.088	20.888	19.388	20.383	5.200
PMR2	29.835	27.550	26.050	20.300	18.800	20.706	5.750
PMR3	29.788	27.504	26.004	20.304	18.804	20.735	5.700
PMR4	29.742	27.457	25.957	20.157	18.657	20.587	5.800
PMR5	29.695	27.410	25.910	19.910	18.410	20.373	6.000
PMR6	29.648	27.364	25.864	20.064	18.564	20.424	5.800
PMR7	29.602	27.317	25.817	20.017	18.517	20.509	5.800
PMR8	29.555	27.270	25.770	19.770	18.270	20.172	6.000
PMR9	29.508	27.224	25.724	19.624	18.124	19.858	6.100
PMR10	29.462	27.177	25.677	19.577	18.077	19.954	6.100
PMR11	29.415	27.131	25.631	19.681	18.181	20.112	5.950
PMR12	29.378	27.084	25.584	19.684	18.184	20.046	5.900
PMR13	29.322	27.037	25.537	19.537	18.037	20.212	6.000
PMR14	29.275	26.991	25.491	19.841	18.341	20.244	5.650
PMR15	29.231	26.944	25.444	19.794	18.294	20.263	5.650
PMR16	29.186	26.897	25.397	19.847	18.347	20.155	5.550
PMR17	29.141	26.851	25.351	19.651	18.151	20.060	5.700
JNR3	29.104	26.804	25.304	19.704	18.104	20.104	5.600
JNR4	29.104	26.804	25.304	19.704	18.104	20.079	5.600
PAR1	28.726	26.476	24.976	19.776	18.276	20.088	5.200
PAR2	27.883	25.583	24.083	19.883	18.383	20.280	4.200
PAR3	26.941	24.691	23.191	19.691	18.191	20.083	3.500
PAR4	26.048	23.798	22.298	20.198	18.698	20.628	2.100
PAR5	25.155	22.905	21.405	20.305	18.805	20.812	1.100
PAR6	24.262	22.012	20.512	20.700	19.200	20.784	–
PAR7	23.905	22.705	21.505	20.405	19.280	20.955	–
PAR8	23.548	22.348	21.148	20.848	19.723	21.278	–
PAR9	23.191	21.991	20.791	20.950	19.825	21.347	–
PAR10	22.833	21.633	20.433	20.600	19.475	21.406	–
PAR11	22.476	21.276	20.151	21.276	20.151	21.550	–
PAR12	22.176	20.955	19.830	20.955	19.830	21.766	–
A/AR	22.068	20.823	19.698	20.823	19.698	21.865	–

PIER NO.	FRL	PIERCAP TOP LVL.	PIERCAP BOTTOM LVL.	PILECAP TOP LVL.	PILECAP BOTTOM LVL.	GROUND LVL.	HEIGHT OF PIER
A/GL	19.827	18.577	17.452	18.577	17.452	19.729	–
PGL21	19.993	18.743	17.618	18.743	17.618	19.690	–
PGL20	20.290	19.040	17.915	19.040	17.915	19.988	–
PGL19	20.647	19.397	18.272	19.397	18.272	20.137	–
PGL18	21.004	19.754	18.629	19.754	18.629	20.188	–
PGL17	21.362	20.112	18.987	20.112	18.987	20.064	–
PGL16	21.719	20.469	19.269	19.700	18.575	20.083	–
PGL15	22.076	20.826	19.626	19.850	18.725	20.271	–
PGL14	22.433	21.183	19.983	20.100	18.975	20.322	–
PGL13	22.790	21.540	20.340	19.840	18.715	20.288	0.500
PGL12	23.147	21.897	20.697	19.797	18.672	20.214	0.900
PGL11	23.504	22.254	21.054	19.854	18.729	20.317	1.200
PGL10	23.862	22.612	21.412	19.612	18.487	20.080	1.800
PGL9	24.219	22.969	21.769	20.469	19.344	20.894	1.300
PGL8	24.576	23.326	22.126	20.626	19.501	21.089	1.500
PGL7	24.933	22.633	21.133	21.300	19.800	21.130	–
PGL6	25.826	23.526	22.026	21.126	19.626	21.585	0.900
PGL5	26.719	24.419	22.919	21.119	19.619	21.572	1.800
PGL4	27.612	25.312	23.812	21.012	19.512	21.437	2.800
PGL3	28.504	26.204	24.704	21.004	19.504	21.466	3.700
PGL2	29.397	27.097	25.597	21.097	19.597	21.477	4.500
PGL1	29.925	27.625	26.125	20.825	19.325	21.274	5.300
JNL1	29.925	27.625	26.125	20.825	19.325	21.267	5.300
JNL2	29.925	27.625	26.125	20.525	19.025	20.941	5.600
PML1	29.873	27.588	26.088	20.888	19.388	20.383	5.200
PML2	29.835	27.550	26.050	20.300	18.800	20.706	5.750
PML3	29.788	27.504	26.004	20.304	18.804	20.735	5.700
PML4	29.742	27.457	25.957	20.157	18.657	20.587	5.800
PML5	29.695	27.410	25.910	19.910	18.410	20.373	6.000
PML6	29.648	27.364	25.864	20.064	18.564	20.424	5.800
PML7	29.602	27.317	25.817	20.017	18.517	20.509	5.800
PML8	29.555	27.270	25.770	19.770	18.270	20.172	6.000
PML9	29.508	27.224	25.724	19.624	18.124	19.858	6.100
PML10	29.462	27.177	25.677	19.577	18.077	19.954	6.100
PML11	29.415	27.131	25.631	19.681	18.181	20.112	5.950
PML12	29.378	27.084	25.584	19.684	18.184	20.046	5.900
PML13	29.322	27.037	25.537	19.537	18.037	20.212	6.000
PML14	29.275	26.991	25.491	19.841	18.341	20.244	5.650
PML15	29.231	26.944	25.444	19.794	18.294	20.263	5.650
PML16	29.186	26.897	25.397	19.847	18.347	20.155	5.550
PML17	29.141	26.851	25.351	19.651	18.151	20.060	5.700
JNL3	29.104	26.804	25.304	19.704	18.104	20.104	5.600
JNL4	29.104	26.804	25.304	19.704	18.104	20.079	5.600
PAL1	28.726	26.476	24.976	19.776	18.276	20.088	5.200
PAL2	27.883	25.583	24.083	19.883	18.383	20.280	4.200
PAL3	26.941	24.691	23.191	19.691	18.191	20.083	3.500
PAL4	26.048	23.798	22.298	20.198	18.698	20.628	2.100
PAL5	25.155	22.905	21.405	20.305	18.805	20.812	1.100
PAL6	24.262	22.012	20.512	20.700	19.200	20.784	–
PAL7	23.905	22.705	21.505	20.405	19.280	20.955	–
PAL8	23.548	22.348	21.148	20.848	19.723	21.278	–
PAL9	23.191	21.991	20.791	20.950	19.825	21.347	–
PAL10	22.833	21.633	20.433	20.600	19.475	21.406	–
PAL11	22.476	21.276	20.151	21.276	20.151	21.550	–
PAL12	22.176	20.955	19.830	20.955	19.830	21.766	–
A/AL	22.068	20.823	19.698	20.823	19.698	21.865	–

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METER. UNLESS OTHERWISE STATED IN DRAWING.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. STRUCTURAL DETAILS AND DIMENSIONS SHOWN THIS DRAWING ARE TENTATIVE AND ANY UNIT AND ITS DIMENSIONS WILL BE AS PER DETAIL DESIGN AND DRAWING APPROVED BY THE DEPARTMENT.
4. DESIGN SHALL BE AS PER LATEST RELEVANT CODE OF IRC AND OTHER CODES AS APPROVED BY MOST. IRC:5–2015, IRC:6–2017, IRC:78–2014 AND IRC:112–2020.
5. THE BRIDGE WILL BE DESIGNED FOR BELOW MENTIONED IRC CLASS LOADING:
   (A) ELEVATED ROAD SHALL BE DESIGNED FOR IRC CLASS A TWO LANE LOADS OR SINGLE LANE OF 70R WHEELED VEHICLES OR IRC CLASS SV LOADING, WHICHEVER IS SEVERE AND GOVERNING.
6. MIN. GRADE OF CONCRETE

P.C.C.	M:15	PEDESTAL	M:50
FOUNDATION/PIER & CAP	M:40	CRASH BARRIER	M:40
PSC GIRDER	M:50	R.C.C. SOLID SLAB	M:35
DECK SLAB/DIAPHRAGM	M:50		

7. REINFORCEMENT STEEL SHALL BE H.Y.S.D. FE 500D.
8. PRESTRESS STEEL SHALL BE HTS STRAND (LOW RELAXATION).
9. STRIP SEAL TYPE EXPANSION JOINT OF APPROVED QUALITY AS PER MOST SPECIFICATION TO BE PROVIDED IN DECK.
10. DRAINAGE SPOUT AND WEARING COAT SHALL BE AS PER MOST SPECIFICATIONS.
11. ELASTOMERIC BEARING SHALL CONFORM TO IRC:83.
12. THE DEPTH OF FOUNDATION SHOWN IN DRAWING IS TENTATIVE. DETAILED DESIGN SHALL BE DONE AS PER SOIL EXPLORATION REPORT.
13. SEISMIC ZONE–III SHALL BE CONSIDERED FOR DETAIL DESIGN AS PER LATEST CODAL PROVISION.
14. WIND SPEED 39.00m/SECOND AND EXPOSURE CONDITION–MODERARE.
15. SOIL TESTING HAS BEEN CARRIED OUT BY CIVIL TECH INDIA, SURAT.
    a) SOIL REPORT NO. : CT/SRT/2242
    b) DATE : 17–09–2022

NO.	DATE	REVISION
R2	30.01.2024	REVISED AS PER SITE CONDITION
R1	09.02.2023	REVISED AS PER COMMENTS OF DESIGNS (R&B) CIRCLE, GANDHINAGAR

PROJECT: CONSTRUCTION OF 4–LANE FLY OVER BRIDGES ON EITHER SIDE OF BRTS LANE CROSSING RATNAMALA JUNCTION, AND GAJERA JUNCTION ON SURAT–AMROLI ROAD AT SURAT ON EPC BASIS

CONTRACTOR: M/s. RACHANA CONSTRUCTION CO., ANKLESHWAR.

CLIENT: SURAT MUNICIPAL CORPORATION SURAT

CONSULTANT: SHAH ASSOCIATES
1005, 10TH FLOOR, SAKAR–V, B/H. NATRAJ CINEMA, OFF. ASHRAM ROAD, AHMEDABAD: 380009.
PHONE NO. 079–26585785, 098250 11314

TITLE: GENERAL ARRANGEMENT DRAWING

DRAWN BY:	K. C. KOSHTI	DESIGN BY: D. H. SHAH			
CHECKED BY:	D. H. SHAH	PROJ. NO.	DRG. NO.	REVISION	
SCALE:	AS SHOWN	– –	01	R2	
DATE:	OCT.–2022				