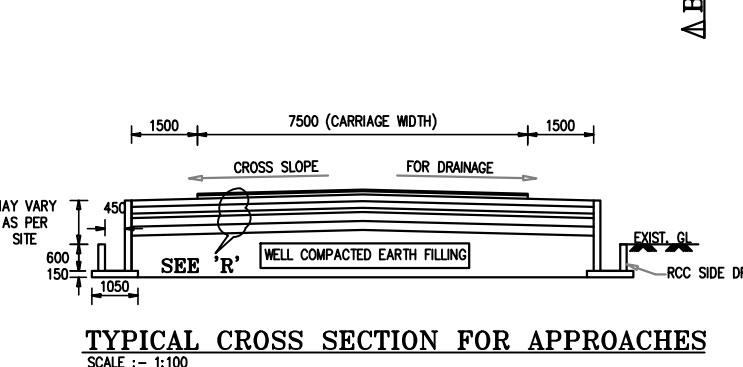
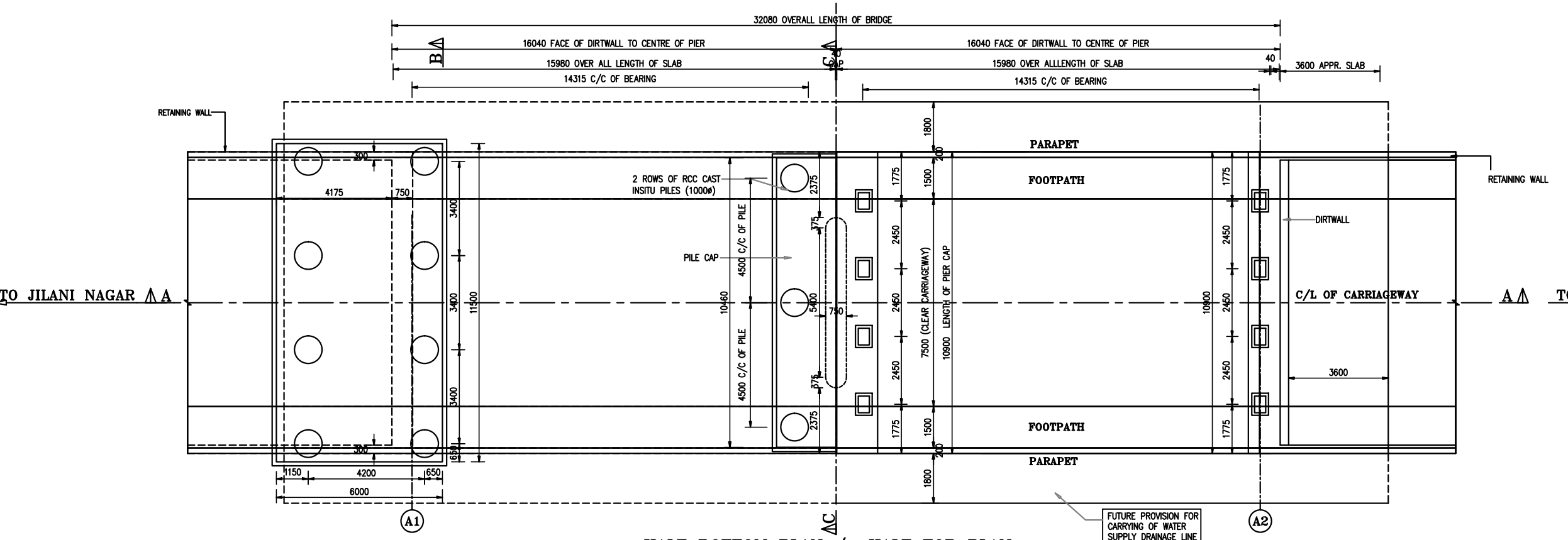


DATUM -1.00

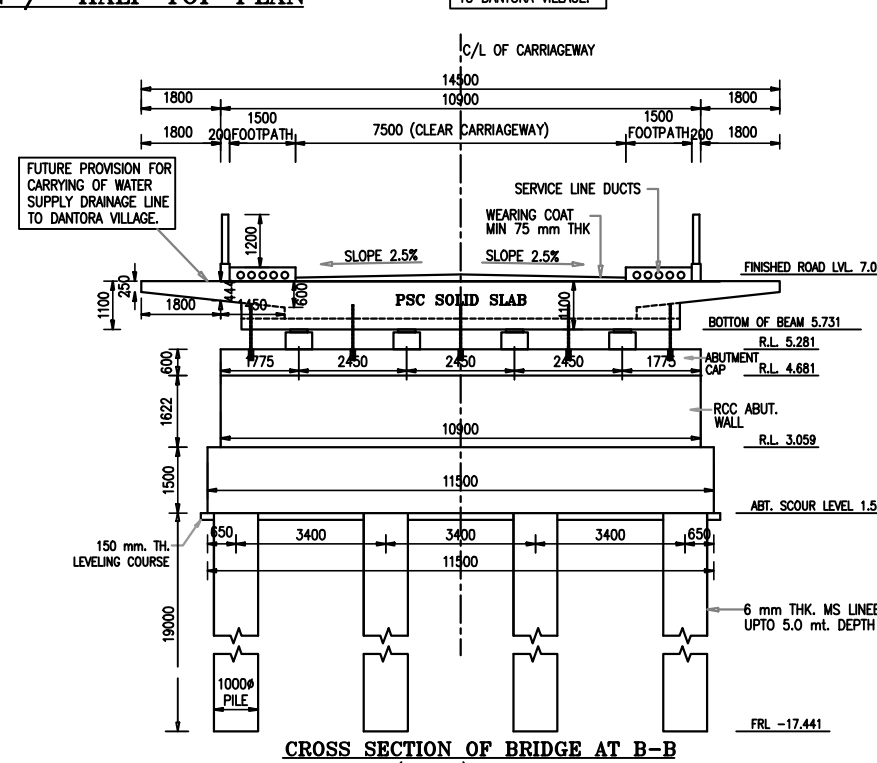
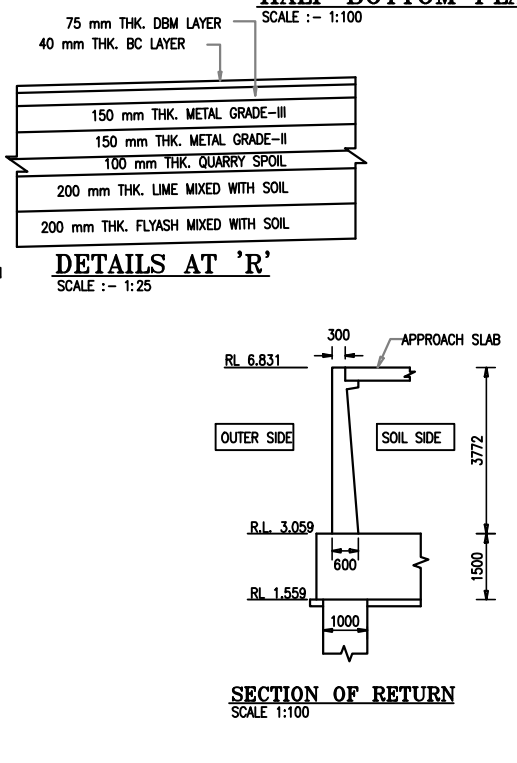
GROUND LEVEL IN METRE	5.800	5.000	4.535	3.900	2.706	2.400	1.725	1.725	1.905	3.300	4.100	4.800	5.160	5.600
CHAINAGE IN METRE	0.000	5.000	10.000	12.000	14.000	20.000	25.000	30.000	34.000	35.000	37.000	40.000	45.000	

SECTIONAL ELEVATION AT 'A-A'
SCALE: 1:100
GROUND PROFILE AS PER CS-1 OF SMC/DET/UNN-KHADI/07



DETAILS OF EXIST. BRIDGE
SCALE: NTS

APPROACH AND RETURN	5.70 M	8.50 M	8.30 M	8.70 M	5.40 M
BED LEVEL	1.750 M		0.80 M	0.80 M	



DETAILS BORELOG-1
SCALE: NTS

MARK	SOIL TYPE	DEPTH (M)	W-C	L-C	U-C	SHR. PARAMETERS	SBC OF SOIL (T/M ²)
1	YELLOWISH SILTY SAND	3.0	43	0.20	21.0	150.0	118.5
2	BROWNISH SILTY SAND	6.0	32	0.18	22.0	150.0	21.6
3	BROWNISH SILTY SAND	9.0	24	0.15	21.0	150.0	26.5
4	BROWNISH SILTY SAND	12.0	33	0.15	22.0	150.0	21.0
5	BROWNISH SILTY SAND	15.0	37	0.15	22.0	150.0	21.0
6	BROWNISH SILTY SAND	18.0	46	0.20	20.0	150.0	20.0
7	BROWNISH SILTY SAND	21.0	62	0.18	19.0	150.0	28.0
8	BROWNISH SILTY SAND	24.5	30	0.16	19.0	150.0	28.0

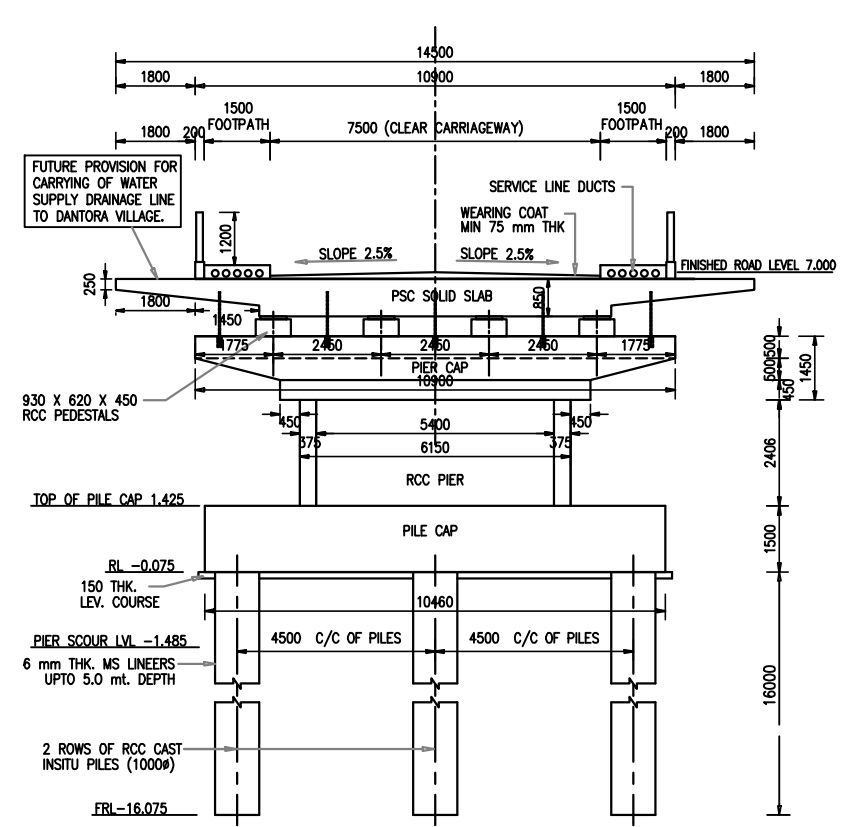
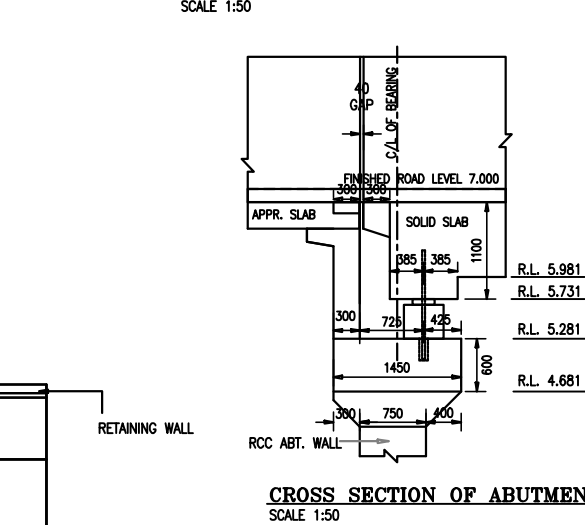
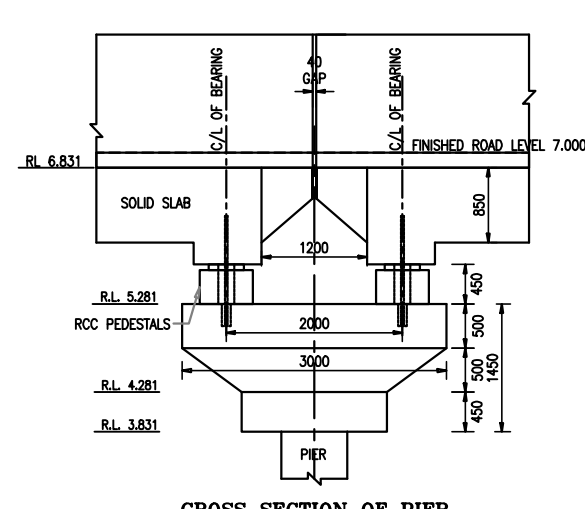
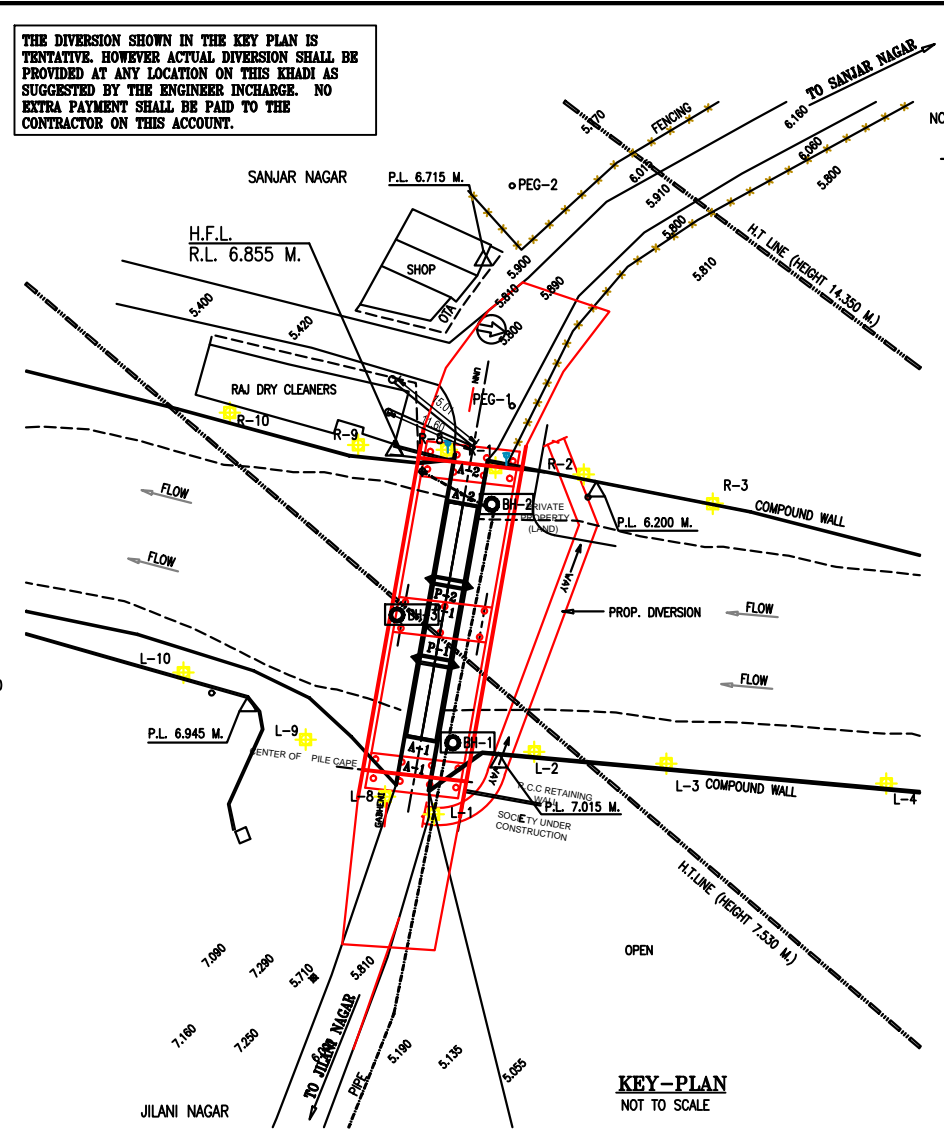
DETAILS BORELOG-2
SCALE: NTS

MARK	SOIL TYPE	DEPTH (M)	W-C	L-C	U-C	SHR. PARAMETERS	SBC OF SOIL (T/M ²)
1	BROWNISH SILTY CLAY	3.0	14	0.15	22.0	150.0	117.6
2	BROWNISH SILTY CLAY	6.0	21	0.20	18.0	150.0	20.8
3	BROWNISH SILTY CLAY	9.0	27	0.15	23.0	150.0	23.9
4	BROWNISH SILTY CLAY	12.0	33	0.15	21.0	150.0	21.0
5	BROWNISH SILTY CLAY	15.0	37	0.15	22.0	150.0	21.0
6	BROWNISH SILTY CLAY	18.0	54	0.20	20.0	150.0	20.0
7	BROWNISH SILTY CLAY	21.0	62	0.05	30.0	150.0	28.0
8	BROWNISH SILTY CLAY	24.5	73	0.05	30.0	150.0	28.0

DETAILS BORELOG-3
SCALE: NTS

MARK	SOIL TYPE	DEPTH (M)	W-C	L-C	U-C	SHR. PARAMETERS	SBC OF SOIL (T/M ²)
1	BROWNISH SILTY CLAY	3.0	21	0.05	27.0	150.0	117.7
2	BROWNISH SILTY CLAY	6.0	36	0.20	21.0	150.0	22.8
3	BROWNISH SILTY CLAY	9.0	30	0.20	20.0	150.0	21.0
4	BROWNISH SILTY CLAY	12.0	36	0.15	18.0	150.0	21.0
5	BROWNISH SILTY CLAY	15.0	42	0.15	18.0	150.0	21.0
6	BROWNISH SILTY CLAY	18.0	50	0.15	18.0	150.0	21.0
7	BROWNISH SILTY CLAY	21.0	47	0.05	30.0	150.0	28.0
8	BROWNISH SILTY CLAY	24.5	60	0.05	30.0	150.0	28.0

- LEGEND
- STREET LIGHT POLE
 - ELECTRIC POLE
 - TELEPHONE POLE
 - FENCE LINE
 - COMPOUND WALL
 - GATE
 - EXISTING CULVERT
 - BORHOLE
 - EXIST. PIPE DRAIN
 - HIGH TENSION LINE
 - EXIST. CHAMBER
 - PROPOSED APPROACHES
 - PROPOSED DIVERSION



NOTES :-

- ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRES UNLESS SPECIFIED OTHERWISE.
- DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- THIS DRAWING IS PREPARED FROM DETAILED SURVEY OF BARMOLI KHADI ACROSS TAPI RIVER FOR PROPOSED BRIDGE AS SUPPLIED BY SMC VIDE LETTER NO. PPA/1111/2006 DATED 11-11-2006 (OF M/S. CHETAN ENGINEERS, BARMOLI).
- FRL IS DECIDED AS PER SOIL INVESTIGATION REPORT OF CIVIL ENGG. RESEARCH LABORATORY, SURAT; SUPPLIED VIDE SMC'S LETTER NO. BRIDGE CELL/NO. 1459 DATED 06-02-2007.
- DURING EXECUTION OF NEW BRIDGE ON BOTH SIDE OF EXISTING BRIDGE IT IS CONTRACTOR'S RESPONSIBILITY THAT THERE WILL NOT BE ANY DAMAGE TO ANY COMPONENT OF EXISTING BRIDGE STRUCTURE.
- EARTH FILLING IS TO BE PROVIDED AT ABUTMENT OF NEW PROPOSED BRIDGE WITH PROPER COMPACTION AND IN 1.5 : 1 SLOPE WITH PROTECT ON COVER OF STONE PITCHING WITH CEMENT POINTING OVER IT.
- PROPOSED WORK SHOWN IN RED AND WORK TO BE DISMANTLED SHOWN IN BLUE IN KEYPLAN.
- THE DIMENSIONS SHOWN ARE TENTATIVE AND SHALL DEPEND UPON FINAL DESIGN.
- THE ARRANGEMENT, TYPE OF SUPERSTRUCTURE, DIAMETER/THICKNESS, DEPTH & THICKNESS OF SUB-STRUCTURE MEMBERS, ETC. ARE TENTATIVE AND SHALL DEPEND UPON FINAL DESIGN.
- DRAINAGE SPOUT, EXPANSION JOINT & WEARING COAT SHOULD BE AS PER SPECIFICATIONS AND DRAWINGS GIVEN BY CLIENT.
- THE CONSTRUCTING AGENCY SHOULD ENSURE THAT THE NECESSARY PERMISSION HAS BEEN OBTAINED FROM MUNICIPAL CORPORATION FOR DIVERTING THE TRAFFIC TEMPORARILY PRIOR TO COMMENCING THE WORK.
- UNDER GROUND CABLE ETC. IF ANY SHALL BE REMOVED & RE-ALIGNED BEFORE THE EXECUTION OF WORK STARTS.
- NECESSARY SUITABLE SHORING AND STRUTTING SHALL BE PROVIDED FOR CASTING OF STRUCTURAL MEMBERS AND OTHER PLACE WHERE EVER REQUIRED AND DETAILED DRAWING SHALL BE SUBMITTED BY THE CONTRACTOR.
- BRIDGE HAS BEEN DESIGNED FOR ONE LANE OF CLASS 70(R) OR ONE LANE OF CLASS 'AA' OR TWO LANES OF CLASS 'A' ALONGWITH FOOTPATH LOADING, WITH WORST COMBINATION. FOOTPATH LOADING SHALL BE AS PER CLAUSE 209.1 OF IRC-6-2000
- GRADES OF CONCRETE FOR VARIOUS COMPONENTS OF BRIDGE SHALL BE AS BELOW.

a) LEVELLING COURSE	M-15
b) PILES & PILE CAP	M-35
c) FOUNDATION CONCRETE	M-35
d) SUBSTRUCTURE CONCRETE	M-35
e) CAPS, PEDESTALS, DIRTWALL	M-35
f) SUPERSTRUCTURE (PSC SOLID SLAB)	M-40
g) WEARING COAT	M-30
h) CRASH BARRIER & KERBSTONE	M-35
i) FOOTPATH SLAB & APPR. SLAB	M-25
j) RAILING & PARAPET	M-25
- BORELOG DETAILS SHOWN HERE ARE AS PER SOIL INVESTIGATION CARRIED OUT AT SITE BY CIVIL ENGINEERING RESEARCH LABORATORY, SURAT.
- THE LOCATION OF PROPOSED CHANNELS AND PIPELINES IS TENTATIVE. THE SAME WILL BE DECIDED BY THE ENGINEER IN CHARGE AT THE TIME OF EXECUTION.
- IF THE BRIDGE IS TO BE CONSTRUCTED IN LIEU OF EXISTING BRIDGE, THEN DIVERSION ROAD, WITH PIPES AND DIVERSION OF WATERCOURSE SHALL BE CARRIED OUT.
- THIS GAD IS FOR TENDER PURPOSE ONLY. GAD IS TENTATIVE AND LIKELY TO CHANGE AS PER SITE CONDITION AND AS PER AVAILABILITY OF LAND. NO EXTRA PAYMENT SHALL BE MADE FOR ANY CHANGE REQUIRED TO BE CARRIED OUT AS PER SITE CONDITION.

REV. NO.	DATE	DESCRIPTION
R7	1-10-09	MODIFICATION MADE IN KEY PLAN AS INSTRUCTED BY SMC, SURAT
R6	25-07-09	DETAILS MADE CLEAR AS PER SITE.
R5	18-07-09	WIDTH OF SLAB ON BOTH SIDE INCREASED TO 1800mm PER 1500mm PILE AS PER INSTRUCTION FROM CLIENT.
R4	01-06-08	1) DETAILS AT 'R' CORRECTED FOR MORE CLARITY. 2) NOTE NO. 19 ADDED.
R3	25-09-07	1) THREE SPAN RCC BRIDGE MADE TO DOUBLE SPAN PSC SOLID SLAB AS PER INSTRUCTION OF CLIENT. 2) CRASH BARRIER REMOVED AS PER INSTRUCTION OF CLIENT. 3) AT ABUTMENT PILE FOUNDATION ADDED.
R2	05-05-07	PEDESTALS AND BEARING BELOW THE SOLID SLAB ADDED AS PER INSTRUCTION OF CLIENTS AND SIDE DRAINS FOR APPROACHES MODIFIED AS PER SITE SUITABILITY.
R1	02-04-07	DETAILS OF TYPICAL CROSS SECTION OF APPROACH ROAD AND OVERLAYER SLAB ON BOTH SIDES OF FOOTPATH FOR CARRYING WATER SUPPLY PIPELINE ADDED AS PER INSTRUCTIONS OF CLIENTS.

EXECUTIVE ENGINEER
SURAT MUNI. CORP.
SURAT

CONSULTANTS

PROJECT :

CONSTRUCTION OF PROPOSED BRIDGE AT UNGABHENI ROAD JOINING SANJARNAGAR & JILANINAGAR IN SURAT.

CLIENTS :

THE MUNICIPAL COMMISSIONER
SURAT MUNICIPAL CORPORATION, MUGLHARA,
SURAT - 390005

CONSULTANTS :

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TITLE :

GENERAL ARRANGEMENT DRAWING FOR UNGABHENI BRIDGE.

DRAWN BY :	DRG. NO.	REVISION
CHECKED BY : PANKAJ PATEL	UNGABHENI	R7
DATE :	01-03-2007	